February 3, 2012

# CORRECTIVE ACTION PLAN

**Property Identification:**
1630 Park Street
Alameda, California

AEI Project No. 298931
ACEHD Fuel Leak Case No. RO0000008



**Prepared for:**
Foley Street Investments
Attn: Mr. John Buestad
2533 Clement Avenue
Alameda, CA 94501

**Prepared by:**
AEI Consultants
2500 Camino Diablo
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(925) 746-6000

February 3, 2012

Ms. Karel Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

**Subject:** **Perjury Statement and Report Transmittal**

1600 – 1630 Park Street
Alameda, California 94501
AEI Project No. 298931
ACEH RO#0000008

Dear Ms. Detterman:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me at (510) 523-1925 or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,

John Buestad
President

JB/pm

Attachment

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

# TABLE OF CONTENTS

## FIGURES



## TABLES



## APPENDICES

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February 3, 2012

Foley Street Investments
Attn: Mr. John Buestad
2533 Clement Avenue
Alameda, CA 94501

**Subject:** **Corrective Action Plan**
1630 Park Street
Alameda, California
AEI Project No. 298931
ACEHD Fuel Leak Case No. RO0000008

Dear Mr. Buestad:

AEI Consultants (AEI) has prepared this Corrective Action Plan (CAP) on behalf of Foley Street Investments, developer of the subject site (Figures 1 and 2). The subject of this CAP is the leaking underground storage tank (LUST) case located at the property 1630 Park Street, known as the Good Chevrolet site. This property is part of a larger redevelopment site which also includes the property to the south with the address of 1600 to 1618 Park Street. Foley Street Investments plans to redevelop these properties with two commercial buildings and associated parking areas. This CAP has been prepared following discussion with the Alameda County Environmental Health Department (ACEHD) which is the agency with regulatory oversight of the LUST case.

## 1.0 Property Overview

### 1.1 Property Description

The development site consisting of 1600 to 1630 Park Street is an irregularly shaped property totaling approximately 1.46 acres, of which the northern portion is the 1630 Park Street site. The site is bound by Park Street to the northwest, 1650 Park Street to the northeast, Foley Street to the Southeast, and Tilden Way to the southwest in a mixed commercial and residential area of Alameda, California. Hereinafter, unless otherwise stated, the "site" will refer to the 1630 Park Street property.

The site is currently improved with a two-story showroom and office building totaling approximately 11,264 square feet and parking lot which was until approximately 2008 occupied by Good Chevrolet. Good Chevrolet also occupied the 1600 to 1618 property to the south, which is also vacant (Figures 2 and 3).

### 1.2 Planned Development Project

The developer plans to demolish the existing buildings and construct two commercial buildings. The northern building is planned for the area of the existing Good Chevrolet building along Park Street. The remainder of the development site will be improved with paved parking areas and landscaping. The development schedule calls for construction to begin no later than June 2012. Refer to Appendix A for the planned location of the buildings.

## 2.0 Site History

Based on historical research performed during a Phase I Environmental Site Assessment (ESA) conducted in June 2011 (AEI 2011a), the current building at the site was constructed in the 1940s for use as an auto garage and showroom. Good Chevrolet occupied the site from the early 1960s through 2008.

### 2.1 Prior Environmental Work

According to records on file with the ACEHD, one 300-gallon waste-oil underground storage tank (UST) and one 500-gallon gasoline UST were removed from adjacent to the northern side of the building in 1986 at which time a release of petroleum hydrocarbons, primarily gasoline, was discovered. Due to the discovery of a release, a case was opened with the ACEHD. The following is a summary of investigation activities that followed.

- In 1987, Groundwater Technologies installed three groundwater monitoring wells (MW-1 to MW-3) and drilled two soil borings (SB-4 and SB-5) to investigate soil and groundwater conditions around the former UST hold (GTI 1987).
- In October 1993, GeoPlexus collected and analyzed soil and groundwater samples from seven soil boring (EB1 to SB7) drilled around the UST hold along with up-gradient and down-gradient of the release (GeoPlexus 1993). It should be noted that documents indicate that two other borings (HP-1 and HP-2) were drilled up-gradient of the release area in April 1993, however details are not available. GeoPlexus installed monitoring wells MW-4 and MW-5 in April 1994 in Park Street to investigate the down-gradient extent of the hydrocarbon plume.
- In January 1997, GeoPlexus drilled an additional eight soil borings (EB8 to EB12 and P1 to P3) onsite around and down-gradient of the former UST hold (GeoPlexus 1997). Soil samples were analyzed from EB8 to EB12 and groundwater samples were analyzed for all eight borings.
- In November 1998, Geoplexus collected three soil gas samples from three borings (AGP-1 to AGP-3) in the release are and within the adjacent building (GeoPlexus 1998). GeoPlexus presented an argument for “low risk” closure however case closure was not granted.
- In April 2008, Blymer Engineers collected soil and groundwater samples from 24 soil borings (GP1 to GP24) on and offsite to characterize the extent of soil and groundwater pollution. It should be noted that AEI was not able to locate a formal report of these activities, only tables of soil and groundwater data and figures have been located.
- In June 2011, a Phase I ESA was conducted for the subject property as detailed in a report dated July 5, 2011 (AEI 2011a).

- In July 2011, a subsurface investigation was conducted at the property relating to potential environmental issues aside from the Good Chevrolet LUST case. The areas of concern investigated include five former and five existing underground hydraulic lifts, several floor drains, three existing USTs (1 550-gallon waste-oil UST, 1 10,000 gallon 1 4,000 gallon gasoline UST), and a former gasoline station identified on the southern end of the development site at the intersection of Park Street and Tilden Way. A total of 19 soil borings (AEI-1 to AEI-19) were drilled for soil and groundwater sampling. Results of the investigation are summarized in the August 16, 2011 *Phase II Subsurface Investigation Report* (AEI 2011b) prepared by AEI.
- An *Interim Corrective Action Plan* (ICAP) dated September 28, 2011 (AEI 2011c) was submitted and followed by an *ICAP Comment Letter Response and Pilot Test Workplan Details* dated November 14, 2011 (AEI 2011d). Both documents proposed the performance a high vacuum dual phase extraction (HVDPE) event at the site. A review of multiple remedial options for the site was discussed in these documents and a HVDPE event was considered the most feasible option for the site given the site conditions.
- In November 2011, extraction wells DPE-1 to DPE-3 and air sparge well AS-1 were installed. In early December, three vacuum monitoring points VP-1 to VP-3 were installed and pilot testing began. Results of the HVDPE event were preliminarily provided in the *Investigation and Remedial Action Workplan* dated January 12, 2012 (AEI 2012). The work plan also proposed the advancement of additional borings and the installation of extraction wells. In January 2012, borings AEI-20 through AEI-28 were advanced and wells DPE-4 through DPE-6, and DPE-8 through DPE-11 were installed. In addition, DPE-7 was advanced as a boring instead of being completed as a well. Information from these borings and wells is incorporated in this report. The data has helped to define the extent of impacted soil and groundwater and identify target areas for ongoing remedial action. The submittal of a formal investigation and well installation report under separate cover is planned.
- Groundwater monitoring and sampling was conducted approximately quarterly from 1992 through 1995, then sporadically through 2003, once in 2008, and in 2011 and 2012. Information from groundwater monitoring and sampling events in December 6, 2011 and January 24, 2012 is incorporated in this report. The submittal of groundwater monitoring and sampling reports for these events under separate cover is planned.

Site data is presented in Figures 3 through 8 and in Tables 1 through 9.

## 3.0 Conceptual Site Model

The following section presents a conceptual model of the release occurrence, including a discussion of the physical setting of the site, distribution of contaminants of concern (COCs), potential exposure pathways, and data gaps that may exist in the understanding of the release.

### 3.1 Geologic Setting and Hydrology

The site is located on Alameda Island. The near surface sediments of the area are mapped as Holocene and Pleistocene Merritt Sands (Qms) deposits (Helley, et al 1997). Depth to bedrock is

estimated at 300 to 800 feet below land surface (Norfleet Consultants 1998). According to information obtained from the U.S Geological Survey (USGS), the site is located at between 20 and 25 feet above mean sea level (amsl) with the local topography sloping gently to the northeast. The nearest surface water is a tidal canal connected to the San Francisco Bay located approximately 1,800 feet to the northeast of the site.

Based on previous investigations at the site, groundwater is first observed in the temporary direct push borings at depths of approximately 9 to 11 feet below ground surface (bgs) and stabilizes at between approximately 7.5 to 8.5 feet bgs. The depth to water in the groundwater monitoring wells has generally ranged from approximately 7.5 to 9.5 feet bgs since the wells were installed. Based on the groundwater monitoring conducted at the site, groundwater flows fairly consistently in a northwesterly direction at an approximate hydraulic gradient of $1x10^{-2}$ to $2x10^{-2}$ ft/ft and exists as an unconfined aquifer. Based on the logs of soil borings drilled at the site, sediments across the site are fairly consistent; consisting primarily of poorly graded fine to medium sand with varying clay and silt content. Refer to Figures 4 through 6 for fence diagrams, based on logs of borings at the site, which depict the sediments across the release area.

## 3.2 Release Occurrence

The release of gasoline constituents originated from the former 500 gallon gasoline UST system removed in 1986 from near the northern side of the existing building. The exact cause of the release is not known, though typically such releases occur from failures of the UST itself or the associated piping and pump system. The volume of fuel released or the duration and timing of the release is not known.

The source of the heavier range hydrocarbons present in samples recently collected within the building appears to have occurred from at least several of the five former hydraulic lifts at the northern end of the building. Again, the timing or duration of the oil release or total volume released is not known.

## 3.3 Contaminants of Concern

The primary contaminants of concern at the site consist of gasoline range hydrocarbons and gasoline constituents and oil range hydrocarbons released from the former hydraulic lifts in the northeastern area of the existing building. The following exhibit presents a summary of the maximum concentrations of the more significant contaminants of concern in soil and groundwater.

| Contaminant | Maximum Concentration in Soil | | | Maximum Concentration in Groundwater | | |
|---|---|---|---|---|---|---|
| | mg/kg | Date | Sample ID | µg/l | Date | Sample ID |
| TPH-g | 15,000 | 10/15/1993 | EB2-2S | 200,000 | 7/25/2011 | AEI-4-W |
| Benzene | 84 | 10/15/1993 | EB2-2S | 21,000 | 7/25/2011 | AEI-4-W |
| Toluene | 710 | 10/15/1993 | EB2-2S | 30,000 | 7/25/2011 | AEI-4-W |
| Ethyl benzene | 260 | 10/15/1993 | EB2-2S | 4,400 | 1/17/2012 | AEI-20 |
| Xylenes | 1,400 | 10/15/1993 | EB2-2S | 21,000 | 5/1/2008 | GP8W |
| MTBE | 9.3 | 1/21/1997 | EB10-S1 | 110 | 1/21/1997 | EB12-WS1 |
| TPH-d | 10,000 | 7/25/2011 | AEI-6-7' | 120,000 | 7/25/2011 | AEI-6-W |
| TPH-mo | 24,000 | 7/25/2011 | AEI-6-7' | 300,000 | 7/25/2011 | AEI-6-W |

TPH-g = Total petroleum hydrocarbons as gasoline
TPH-d = Total petroleum hydrocarbons as diesel
TPH-mo = Total petroleum hydrocarbons as motor oil
MTBE = Methyl tertiary butyl ether

## 3.4 Soil Contamination

Gasoline impacted soil is centered on the former UST hold and extends laterally in each direction, primarily toward the north and northwest to beneath Park Street. To the east, south, and east, impacted soil extends approximately 20 to 40 feet from the former UST hold and approximately 100 feet to the north. The lateral extent of gasoline impacted soil is reasonably well defined in each direction (Figure 7). Based on the results of previous investigations including a subsurface investigation in July 2011 (AEI 2011b), it appears that oil impacts to the subsurface are localized around the former piston areas.

The vertical extent of impacted soil has been generally well defined by past investigations. Vertically, the top of the impacted zone is at approximately 7 to 8 feet bgs and ends between approximately 12 to 14 feet bgs. The impacted thickness of the approximately 4 to 8 feet corresponds to just above the water table (capillary fringe) to several feet below the average water table (Figures 4 through 6). At distance from the release area, the thickness of impacted soil generally decreases to approximately 3 to 4 feet, as observed in recent borings AEI-22, AEI-23, and AEI-28.

An estimate of the hydrocarbon mass in soil based the data from the site was performed (Table 10). This estimate is inherently inaccurate due to the limitations in estimating values within a complex geologic environmental. As such, this estimate is useful only as estimate of the order of magnitude of the hydrocarbon mass.

## 3.5 Groundwater Contamination

The dissolved phase plume is also centered on the former UST hold and spreads generally in a northwesterly direction (Figure 8). The higher concentrations of the dissolved phase plume are generally defined in each direction. Based on the dissolved-phase and groundwater sampling from the soil borings, it appears that the length of the plume at this site is no more than approximately 200 feet in length. Based on groundwater monitoring data, concentrations have generally decreased over the last 10 years.

An estimate of the hydrocarbon mass in groundwater based the data from the site was performed (Table 10). This estimate is inherently inaccurate due to the limitations in estimating values within a complex geologic environmental. As such, this estimate is useful only as estimate of the order of magnitude of the hydrocarbon mass.

## 3.6 Well Search

In January 2012, a 2,000-foot radius well search was requested and received from the Alameda County Department of Public Works (ACDPW). The results of the well search were reviewed and wells which appeared to be associated with monitoring or remediation at other sites or soil borings were excluded from the review. According to the results of the well search, ten (10) wells are located within 2,000 feet of the property (Figure 9 and Table 11).

Based on the dissolved-phase and groundwater sampling from the soil borings, it appears that the length of the plume at the site is no more than approximately 200 feet in length. None of the wells noted in this well search are located within the expected plume length for this site. As such, none of the listed wells are expected to be impacted by the hydrocarbons at the site.

## 3.7 Preferential Pathway Study

A preferential pathway study is currently underway for the site. A review of a previous utility map for the site was completed along with field work to identify significant utilities in the area of the site. The results of this study will be presented under separate cover.

## 3.8 Receptors and Exposure Pathways

Potential exposure pathways and receptors were evaluated based on the current site usage. Potentially complete exposure pathways and receptors are identified based on the following criteria:

- A source and mechanism of chemical release;
- One or more retention or transport media;
- A potential exposure point with the media; and
- An exposure route at the point of contact.

The site is currently improved with a two-story showroom and office building. The developer plans to demolish the existing buildings and construct two commercial buildings. The remainder

of the development site will be improved with paved parking areas and landscaping. As such, the potential exposure pathways and receptors were evaluated for the following:

- Commercial workers
- Construction workers
- Sensitive receptors

**Soil (Near or Subsurface)**

The site has a paved surface. The direct exposure pathway for near surface soil is considered incomplete for commercial workers and potentially complete for construction workers. Commercial workers are not expected to come into contact with subsurface soils whereas construction workers may contact these soils if excavation at the site is performed.

**Air (Indoor and Outdoor)**

The vapor intrusion pathway from impacted soil and/or groundwater to indoor or outdoor air is potentially complete where volatile contaminants are present in shallow soils beneath a structure which can be occupied.

**Groundwater**

The direct exposure pathway for impacted groundwater is considered incomplete for commercial workers. According to the East Bay Municipal Utility District (EBMUD) *2010 Annual Water Quality Report*, drinking water is supplied by the EBMUD and the source of the water is the Mokelumne River watershed in the Sierra Nevada.

The direct exposure pathway for impacted groundwater is considered potentially complete for construction workers. Construction workers may contact with groundwater if excavation at the site is performed.

The direct exposure pathway for nearby wells is considered incomplete. None of the nearby wells are expected to be impacted by the site according to the well search (Section 3.6) considering the length of plume discussed in Section 3.5.

**Surface Water**

The direct exposure pathway from impacted groundwater to surface water is considered incomplete. The nearest surface water is a tidal canal connected to the San Francisco Bay located approximately 1,800 feet to the northeast of the site. Based on the dissolved-phase and groundwater sampling from the soil borings, it appears that the length of the plume at the site is no more than approximately 200 feet in length. Based on the distance to the nearest water body, surface water is not expected to be impacted by the concentrations of hydrocarbons at the site.

## 4.0 Feasibility Study

From December 5, 2011 to January 9, 2012, CalClean, Inc. (CalClean) of Tustin, California performed a HVDPE event under the oversight of AEI. The work performed was proposed as part of an interim corrective action and feasibility study which was previously proposed (AEI 2011c and AEI 2011d). Preliminary results of this work were previously submitted (AEI 2012). A report from CalClean is included as Appendix B.

DPE is a technique of applying a high vacuum or negative pressure on an extraction well and the formation in order to enhance the liquid recovery of that well and while also increasing the mass removal of volatile and semi volatile contaminants by maximizing dewatering and facilitating volatilization from previously saturated sediments via the increased air movement.

### 4.1 Equipment

The event was performed using a low-noise truck-mounted 450-CFM high vacuum liquid ring blower and a propane-fired thermal oxidizer. The thermal oxidizer was permitted with the Bay Area Air Quality Management District with a various locations permit.

The extracted groundwater was treated through two 500-pound vessels in series filled with granular activated carbon. The treated groundwater was discharged to the onsite sewer system in accordance with a Special Discharge Permit from the EBMUD.

A Horiba organic vapor analyzer was used to measure the system influent concentrations of hydrocarbons in the field. Vapor samples were collected from the individual extraction wells and from the system inlet and submitted for laboratory analysis. Magnahelic vacuum gauges were used to measure the vacuum readings for the system and for the extraction and observation wells. A totalizer water meter was used to measure the amount of water extracted.

### 4.2 Fieldwork

During the event, the DPE system was connected to extraction wells DPE-1, DPE-2, DPE-3, and MW-2 individually or in combination. Wells which were not used for extraction were instead used for observation. Additional observation wells included wells MW-1 through MW-3, and VP1 through VP3. Well MW-3 was temporarily connected as an extraction well and well AS-1 was temporarily connected as a sparging well. The DPE activities were conducted for a total of 35 days.

Baseline depth-to-water measurements were obtained from wells AS-1, DPE-1, DPE-2, DPE-3, and MW-1 through MW-3 prior to the event (Table 12).

### 4.3 Vapor Extraction

During the event, the system parameters were collected and included in the report by CalClean (Appendix B). These system parameters were the system vacuum in inches of Hg, the total system inlet flow in standard cubic feet per minute (scfm), and the influent concentrations in parts per million by volume (ppmv).

The average unit vacuum ranged from 15 to 22 inches of mercury (inches of Hg) and the average total system inlet flow ranged from 89 to 177 scfm (Appendix B, Table 2).

The extraction casing vacuum(s) in inches of Hg were also measured along with the induced vacuum measurements in the observation wells in inches of $H_2O$. Field data from the event is included with the report by CalClean (Appendix B). Data from the end of an operation of one or more extraction wells and used for data analysis is summarized in Table 12.

The vapor extraction radius of influence (ROI) is typically defined as the distance corresponding to an induced vacuum of 0.1 inches of $H_2O$ (EPA 2004). An ROI is estimated as the intersection at 0.1 inches of $H_2O$ of the line created by the linear regression of the induced vacuum of the observation wells versus the log of the distances from an extraction well to the observation wells. The observed induced vacuum in vapor probes VP-1 through VP-3 and all other observation wells were used separately to calculate the ROIs for the extraction wells. The average of the calculated ROIs for the extraction wells was 19 feet using the vapor probes as observation wells and as 30 feet using all other wells (Table 13).

A pore volume exchange volume calculation was performed based on the information from the event. The exchange rate is calculated by dividing the soil pore space within the treatment zone by the design vapor extraction rate (EPA 2004). The average number of pore volumes exchanged per day was calculated as 10.12 (Table 14). An exchange rate of at least one pore volume per day is considered a minimum for vapor extraction.

The maximum vapor concentrations based on laboratory data in wells DPE-1 through DPE-3 and MW2 were 7,500 ppmv, 4,000 ppmv, 15,000 ppmv, and 1,000 ppmv, respectively. The maximum system inlet vapor concentration based on laboratory data was 7,400 ppmv. The total equivalent amount of hydrocarbons recovered through vapor extraction during the event was 6,422.16 pounds based on laboratory data and 4,274.15 pounds based on the Horiba field organic vapor analyzer data with an average of 5,348.16 pounds (approximately 891 gallons assuming a density of 6 pounds per gallon) (Appendix B, Table 1).

## 4.4 Groundwater Extraction

The quantity of groundwater extracted was measured at various times during the event. The rate of groundwater extraction was calculated as 0.60 gpm from DPE-1, 0.24 gpm from DPE-2, 0.43 gpm from DPE-3, 0.36 gpm from MW-2, and 0.94 gpm from a combination of wells DPE-1 through DPE-3 (Table 12).

The depth to water level measurements in the observation wells were collected. Data loggers also collected data from the wells. Field data from the event is included with the report by CalClean (Appendix B). Data from the end of an operation of one or more extraction wells and used for data analysis is summarized in Table 12.

The groundwater extraction radius of influence is estimated by examining the depth to water levels in the observation wells during the event. The longest duration extraction occurred when wells DPE-1 through DPE-3 were extracted for a period of 20.8 days which resulted in

drawdowns of 1.22, 1.04, and 0.87 feet, respectively, in wells MW-1 through MW-3 (Table 15). It is clear that the operation of the system at extraction wells DPE-1 through DPE-3 is at least effective in influencing the water levels in wells MW-1 through MW-3. Since well MW-2 is the well which is closest to an extraction well (DPE-1), the distance between MW-2 and DPE-1 of 13 feet is used as an estimate of the ROI for groundwater extraction (Figure 10).

Groundwater sampling of all extraction wells was conducted on December 6, 2011 which was at the beginning of the event and on January 24, 2012 which was after the event. A decrease in the concentrations of TPH-g and benzene in groundwater from the extraction wells was noted after the event (Table 9).

The total volume of groundwater extracted from the event was 43,530 gallons. Using this data, an average concentration and the mass of hydrocarbons removed from the event was estimated. An estimated total of 2.48 pounds of TPH-g, 0.30 pounds of benzene, 0.25 pounds of toluene, 0.10 pounds of ethylbenzene, and 0.39 pounds of xylenes were removed (Table 16).

## 5.0 Corrective Action

### 5.1 Remedial Goals and Objectives

Based on the California Code of Regulations, Title 23, Division 3, Chapter 16, Section 2725(g)(1), for waters with current or potential beneficial uses for which numerical objectives have been designated in water quality control plans, the responsible party shall propose at least two alternatives to achieve these objectives. The experience of the environmental industry during cleanup efforts has shown that numerical objectives may not be economically or technically attainable with the technology currently available. Typically, mass removal rates of groundwater remediation reach asymptotic levels prior to reaching numerical objectives. If asymptotic levels are reached during remedial efforts, further active remediation may not significantly reduce groundwater concentrations at rates any greater than natural processes. The reduction of petroleum hydrocarbon contaminants in the subsurface by natural processes is well documented and widely accepted. It is anticipated that following active remedial efforts that remove a large fraction of the source hydrocarbons, that residual contaminants will be monitored to demonstrate that the site will meet the numeric goals and remedial objectives within a reasonable time frame as a result of natural attenuation processes.

The *San Francisco Bay Region (Region 2) Water Quality Control Plan (Basin Plan)* dated December 31, 2010 was reviewed. According to the Basin Plan, the site lies within Basin 2-9.04 which is identified as the Santa Clara Valley Basin, East Bay Plain Sub-basin which is identified with the following existing beneficial uses: Municipal and domestic water supply; industrial process and service water supply; and agricultural water supply. The Maximum Contaminant Levels (MCLs) as specified in the California Code of Regulations are proposed as the numerical objectives for the cleanup of BTEX and MTBE in groundwater. The Environmental Screening Levels (ESLs) issued by the Regional Water Quality Control Board (RWQCB) may be used for chemicals commonly found in groundwater at sites where releases of hazardous chemicals have occurred. The final groundwater ESLs for sites where groundwater is a current or potential

drinking water resource water resource (Table F-1a) are proposed as the numerical objectives for the cleanup of TPH-g and TPH-d in groundwater. The proposed cleanup goals are summarized below:

- TPH-g 100 µg/l
- TPH-d 100 µg/l
- Benzene 1 µg/l
- Toluene 150 µg/l
- Ethylbenzene 300 µg/l
- Xylenes 1,750 µg/l
- MTBE 5 µg/l

The ultimate remedial objectives for the site are to be protective of groundwater quality and human health. Interim corrective action was previously proposed (AEI 2011c and AEI 2011d) and implemented (AEI 2012) in order to begin to remove remaining source material present in the soil both above and below the water table around the former tank hold and to reduce the most significant concentrations of dissolved-phase contaminants.

The primary objective of the interim action is to remove source mass that may pose a threat to human health and act as a source for further groundwater impact. A secondary objective is to reduce the impact to groundwater and control migration of the dissolved-phase petroleum hydrocarbon plume. By limiting further impact to groundwater and treating significantly impacted groundwater around the release area, natural attenuation processes of residual dissolved phase contaminants is more likely to proceed.

## 5.2 Screening Criteria for Corrective Action Alternatives

The selection of an appropriate remedial alternative for corrective action at the site is based on evaluation of the following criteria:

**Reduction of Mass:** This criterion establishes preference for an alternative that will produce permanent and significant mass reductions. The evaluation focuses on the amount of chemicals to be destroyed or treated, the type and quantity of residual chemicals that will remain after treatment, and the effectiveness of the remedial alternatives.

**Feasibility:** The evaluation focuses on the possibility of implementation given site constraints, reliability ofthe technology, and the ability to monitor the performance of an alternative. Each alternative requires evaluation against site-specific hydrogeologic conditions.

**Cost:** This criterion is used to assess capital and operation and maintenance (O&M) costs on a conceptual level only. Capital costs include direct costs, such as equipment purchase and site construction/development, and indirect costs, including fees for engineering design and permitting, and startup expenses. O&M costs include ongoing labor, materials, repairs, administrative fees, and reporting costs during the operating and monitoring period.

### 5.3 Planned Site Development

The developer plans to demolish the existing buildings and construct two commercial buildings. The northern building is planned for the area of the existing Good Chevrolet building along Park Street. The remainder of the development site will be improved with paved parking areas and landscaping. The development schedule calls for construction to begin no later than June 2012. Refer to Appendix A for the planned location of the buildings.

The development schedule does not include post remediation monitoring, the need for post-remediation natural attenuation, or obtaining final case closure but does anticipate major onsite activities being completed so that construction of the proposed commercial building can begin. Based on this schedule, the active remedial options considered in detail below were selected because they could reasonably be expected to either be completed prior to the beginning of construction or because installation could occur prior to construction and implementation occur with minimal disruption during and following development. These options were selected with the understanding that ongoing natural attenuation monitoring would be required prior to case closure once the development project has been completed.

## 6.0 Remedial Alternatives

A discussion and evaluation of potentially feasible and effective remedial alternatives considered for interim corrective action is presented in this section. The methods presented below include the following:

- Excavation and disposal of impacted soils with dewatering and on-site treatment and disposal (sewer or storm discharge) of contaminated groundwater;
- HVDPE extraction; and
- Installation of in situ chemical oxidation (ISCO) system via ozone spaging coupled with vacuum vapor control system prior to construction of the commercial building to operate during and following construction of the commercial building.

### 6.1 Soil Excavation

Soil excavation consists of the physical removal or excavation of impacted soil to the water table, but can often extend below the water table if soil conditions allow. This option was selected for consideration since it has a high degree of certainty of removal and, given the clients time constraints on the project, is one of the more expedient remedial options. Once above ground, soils can either be treated onsite (if space and time allow) or transported offsite to an appropriate disposal facility. Soil excavation can be accomplished in all fine- and coarse-grained soil types.

**Reduction of Mass:**

A relatively significant amount of soil beneath the site is impacted by the petroleum hydrocarbons from the gasoline release as well as in the lift area. An excavation area of approximately 5,225 square feet to a depth of 12 to 14 feet would remove the majority of

significant onsite impacted soil. It is expected that the top 5 to 7 feet of soil may be clean and possibly suitable for reuse. Based on this approximately 2515 cubic yards (cy) of soil would be excavation, approximately 40% of which is expected to be clean overburden (approximately 1,005 cy) and 1,510 cy would require disposal. This corresponds to approximately 2,200 tons of soil (assuming a density of 1.45 tons/cy).

**Feasibility:**

The following project-specific conditions impact the cost and feasibility of this approach:

- Much of the impacted soil is within the capillary fringe and beneath the water table. Dewatering efforts may be significant, the costs of which are difficult to estimate as no study has been performed on hydraulic properties of the aquifer. Excavation of saturated sediments can result in increase soil weight, due to water content, and can slow excavating, soil handling, and backfilling.
- The sediments beneath the site are primarily sandy; therefore, shoring is expected to be required along the northwestern edge of the excavation at the sidewalk and property lines. Other walls of the excavation could likely be sloped to provide adequate safety and stability.
- Some of the onsite wells would need to be properly decommissioned prior to excavation and additional wells reinstalled at a later time.
- Impacted soil beneath the sidewalk or street would remain. Although this limitation is common, the residual soil could increase the natural attenuation and case closure timeframe.
- The volume of soil to be removed are based on available data, however typically field observations and screening are utilized to determine excavation boundaries; therefore the final volume of soil removed may be more (or less) than estimated.

**Cost:**

Based on the scope of excavation outlined above, the cost for remedial action is estimated at $491,325 and the total cost to closure is estimated at $ 596,355 (Appendix C).

## 6.2 High Vacuum Dual Phase Extraction

HVDPE utilizes vacuum pumps capable of achieving relatively high applied vacuum to the subsurface via extraction wells. This approach is a commonly applied variant on traditional soil vapor extraction (SVE) with the added advantage of extracting groundwater and lowering the water table to allow for removal of adsorbed or “trapped” volatile organics from beneath the water table. Water is treated with an air-stripper and/or activated carbon prior to discharge to the sewer or storm drain and vapor phase contaminants typically burned in a thermal or catalytic oxidizer. HVDPE can be supplemented with air sparging (injection of air below the contaminant mass below the water table) to mobilize sorbed contaminants below the water table and transfer dissolved phase contaminants to the vapor phase for removal. HVDPE is a well proven approach for removal of volatile contaminants including gasoline and under some conditions heavier range petroleum. HVDPE can be implemented by installing fixed equipment

or utilizing mobile equipment. HVDPE is more successful in relatively course soils where acceptable air and water flow rates can be achieved.

**Reduction of Mass:**

In December 2011 and January 2012, a 35-day HVDPE event was performed as noted in Section 4.0. During the event, the HVDPE was connected to wells DPE-1, DPE-2, DPE-3, and MW-2 individually or in combination. These wells are located within area of greatest soil and groundwater impacts at the site (Figures 7 and 8). Additional nearby observation wells included wells MW-1 through MW-3, and VP1 through VP3.

The operation of HVDPE at the extraction wells was effective in influencing the vacuum levels and groundwater levels of the nearby observation wells at the site. The maximum system inlet vapor concentration based on laboratory data was 7,400 ppmv. The total equivalent amount of hydrocarbons recovered through vapor extraction during the event was an average of 5,348.16 pounds.

While HVDPE was effective in removing hydrocarbons from the vapor stream, it was less effective at removing hydrocarbons from the groundwater stream. The total volume of groundwater extracted from the event was 43,530 gallons. An estimated total of 2.48 pounds of TPH-g and 0.30 pounds of benzene were removed. A decrease in the concentrations of TPH-g and benzene in groundwater from the extraction wells was noted after the event.

**Feasibility:**

Given the time constraints on implementing remedial action as well as the field-flexibility and lower capital costs of mobile equipment, the implementation of HVDPE is considered more feasible with mobile equipment rather than with a fixed-based system.

Interim corrective action was proposed (AEI 2011c and AEI 2011d) and implemented (AEI 2012) in order to begin to remove a significant portion of the remaining source material present in the soil both above and below the water table that is present around the former tank hold and to reduce the most significant concentrations of dissolved phase contaminants. In December 2011 and January 2012, wells DPE-1 through DPE-6 and DPE-8 through DPE-11 were installed at the site. These wells are designed as part of a network of remediation wells to treat the larger source area.

It should be noted that HVDPE may be less effective at removing heavier range oils, therefore if sufficient heavier range petroleum cannot be removed and/or the concentrations remaining are not able to meet risk-based objectives, excavation or an alternative method may be required. For the purpose of estimating remedial costs, the excavation and disposal of approximately 355 cy (515 tons) is included in the estimate for HVDPE.

**Cost:**

The total cost of HVDPE is estimated at $476,090. This includes the cost to closure, including excavation and disposal of approximately 515 tons of soil from the hydraulic lift release area (Appendix C).

### 6.3 In Situ Chemical Oxidation

ISCO involves the use of an oxidant such as permanganate, ozone, hydrogen peroxide, or the hydroxyl radical (Fenton's reagent) to chemically destroy the hydrocarbons. The selected oxidant must be injected into the impacted soils and groundwater to be in direct contact with the contaminant. The effectiveness of chemical oxidation is dependent on the nature of the contaminants, soil type, permeability, organic carbon and mineral content, heterogeneity or homogeneity of the soil matrix, distribution of contaminants, and the presence of free product. ISCO utilizing ozone sparging is considered a potentially viable option for this site. Ozone, with an electrochemical potential of 2.07V, is one of the most powerful oxidants available for ISCO and has become a widely used method for hydrocarbon treatment. Ozone sparging involves the injection of highly concentrated ozone (up to 6% by weight) blended with air below the water table using sparge wells. In addition to direct oxidation of hydrocarbons, ozone sparging shares many similarities with air sparging by increasing volatilization, supplying oxygen for aerobic biodegradation, and promoting some degree of groundwater mixing.

**Reduction of Mass:**

The gasoline contaminants at the site are highly favorable to ozone sparging and oil range hydrocarbons are moderately favorable to such treatment. An ozone system has the advantage of relatively low operation and maintenance costs compared to other fixed equipment remediation system (such as SVE and groundwater pump and treat) if treatment must continue for longer than estimated.

**Feasibility:**

Several project specific conditions are considered during the evaluation of this approach:

- Pilot testing of ISCO methods, including ozone sparging would be required to evaluate the radius of influence of sparge wells (for optimum well network design) and to assess whether problematic reaction by-products, such as chromium VI, would be produced.
- Ozone treatment would be expected to require 18 to 36 months to treat the source area and adequately reduce dissolved contaminant conversation. This would require installation of sparge points and conduit during redevelopment of the property, with operation of treatment system to continue after development completion.
- Operation of a sparging system beneath and around a commercial building would require vapor control to mitigate risk of increased vapor intrusion. A vapor control system would consist of horizontal piping beneath the structure connected to a small blower and appropriate abatement devise (likely activated carbon). Such a system would be designed to maintain a negative pressure gradient beneath the structure to remove and treat any fugitive created by the sparging process rather than as a mass removal system (as would be the design of traditional SVE system).

**Cost:**

Estimated costs for installation and operation of an ozone sparging system for 30 months is $365,050 and total cost to closure estimated at $518,450 (Appendix C).

## 6.4 Alternative Evaluation

**Reduction of Mass and Feasibility:**

The excavation and disposal of soil is expected would be expected to be the option with the highest likelihood of directly reducing the hydrocarbon mass in the subsurface assuming that impacted soils do no extend beyond the known limits of the release. In the event that additional removal is needed, extending the excavation laterally is relatively simple, to the extent that such additional removal does not extend toward a property boundary of sidewalk. Complications caused by excessive water infiltration could be significant when excavating up to 7 feet below the water table including slope stability of unshored sidewalls, soft ground for equipment, and handling of saturated sandy soils.

The effectiveness of HVDPE and ozone sparging are highly dependent on the ability to move liquids and gas through the subsurface. The HVDPE event performed showed that HVDPE was effective in removing hydrocarbons from the vapor extraction portion of the event although the removal of hydrcarbons from the groundwater portion was lower. Ozone sparging is expected to be less effective than HVDPE or excavation and disposal due to the fact that it is an in-situ remedial option which does not involve the direct removal of hydrocarbons from the subsurface.

HVDPE utilizing mobile equipment includes the inherent flexibility to focus energy on well(s) that require additional treatment without the need for system redesign or additional installations. Installation of ozone sparging and vapor control system prior to construction of the building runs the risk of complicating construction and damage remediation system wells and piping during construction. HVDPE extraction well installation and operations face no significant feasibility limitations if implemented prior to or following demolition activities to avoid disruptions to operations or damage to wells.

**Cost:**

The cost estimates for each of the three options includes implementation of each option plus the costs of other tasks which may be expected to be necessary to achieve case closure, such as filling data gaps, groundwater monitoring, and closure tasks and decommissioning. However a contingency multiplier has not been applied.

Based on the costs estimated for these three options, the cost of HVDPE and ozone sparging have the lowest costs to achieve case closure while excavation and disposal has the highest estimated cost (Appendix C).

The most significant variable in the cost of HVDPE is the time necessary to perform adequate removal. This estimate is includes 4 months of extraction; based on an estimate prepared by CalClean, Inc. Each additional month of treatment could increase costs by approximately $70,000, based on the CalClean estimate.

Ozone sparging has the lowest incremental cost if additional treatment is required of approximately $3,100 per month. By installing ozone system for operation following construction of the planned development, if increase treatment times are required, operation and maintenance costs are relatively low and system operation can continue as needed for extended periods of time with little additional disruption to the property.

Excavation costs could increase if additional shoring is necessary or due to complications cased by shallow groundwater conditions. In addition, the cost estimate assumes that the top 40% of soils are suitable for reuse. If such soils cannot be reused due to the presence of contamination or its use is limited (reuse of soils within 5 feet of the water table can be limited by regulation), costs could increase for additional transportation and disposal and backfill material. In all cases, if upon filling the identified data gaps, additional areas require treatment, costs would likely increase.

## 7.0 Recommended Method

Based on the above discussion, all methods are technically feasible however HVDPE and excavation have the highest likelihood of success. Based on the required timing of remedial implementation and other factors outlined above, HVDPE has been selected as the remedial option for the site. Concurrence of HVDPE as the remedial method using a mobile treatment system is requested from the ACEHD.

## 8.0 Continued Remedial Action

Interim corrective action was proposed (AEI 2011c and AEI 2011d) and implemented (AEI 2012) in order to begin to remove a significant portion of the remaining source material present in the soil both above and below the water table that is present around the former tank hold and to reduce the most significant concentrations of dissolved phase contaminants. In January 2012, borings AEI-20 through AEI-28 were advanced and wells DPE-4 through DPE-6, and DPE-8 through DPE-11 were installed. In addition, DPE-7 was advanced as a boring instead of being completed as a well. The submittal of a formal investigation and well installation report under separate cover is planned.

The HVDPE system was remobilized to the site and operation restarted on January 25, 2012. It is expected that mobile treatment of the site using HVDPE will continue based on the results of the HVDPE event. The primary objective of resumed HVDPE will be to maximize hydrocarbon recovery rates and reduce the overall mass of petroleum in and around the release area. To maximize rates, the system will be operated on a set of 3 to 4 wells until rates decline, after which that set of wells will be allowed to rebound while a new set of wells will be used for extraction. All vapor and water discharge will be performed under permits obtained by CalClean. Routine data collection will include system and wellhead vacuums, system flow rates, individual and combined total hydrocarbon concentrations (Horiba field measurements and periodic

laboratory analyses), vacuum influence, and water flow rates. Water levels will be recorded in select wells. It is expected that HVDPE may run for 2 to 4 months following the recent remobilization. The ACEHD will be updated on the schedule and provided regular updates on the operations and progress.

## 8.1 Additional Remediation Well Installation

Based on the results of the HVDPE event, data obtained during recent soil borings and well installation work, the installation of additional extraction wells is proposed. The installation of 3 additional extraction wells is planned. The well locations have been selected to cover areas of documented significant remaining petroleum hydrocarbons (Figure 10).

Prior to mobilizing, well construction permits will be obtained from ACPWA, the site will be marked and underground service alert north will be notified, and a private utility locating service retained to clear the planned drilling locations.

The drilling and well installation will be performed with a hollow stem auger drilling rig. Borings will be cored to log soil and determine the interval of the well screens. It is planned that DPE wells will be screened from approximately 7 to 16 feet bgs, although exact screen intervals will be determined in the field; DPE wells will be constructed of 4" diameter flush threaded and factory slotted (0.010) well casing. The annulus of each well will be filled with sand to above the screen interval, with 1 to 2 feet of bentonite above the sand interval, and sealed to the surface with cement grout in accordance with ACPWA permitting conditions and remediation standard well construction practices. The tops of each well will be affixed with a locking, expanding well cap and a traffic-rated well box.

Soil samples may be collected during well installation and retained for analyses. It is expected that 1 to 2 soil samples may be analyzed for TPH as gasoline, diesel, or motor oil with silica gel cleanup (for diesel / motor oil analyses) by EPA Method 8015 and for MTBE and benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021.

Upon completion of the wells, Department of Water Resources (DWR) well registration forms (DWR 188 forms) will be filed. Each of the newly installed wells, along with recently installed DPE wells and monitoring points and existing groundwater monitoring wells, will be surveyed relative to each other, mean sea level, and major site features; survey data will be uploaded to the GeoTracker database.

# 9.0 Reporting

Subsurface investigation, well installation, and routine quarterly groundwater monitoring and remediation progress reports will be submitted. All work will be performed under the direction of and reports prepared under the seal of a California licensed professional geologist or engineer and reporting uploaded to the GeoTracker database and ACEHD electronic data portal.

## 10.0 References

AEI Consultants (AEI) 2011a. Phase I Environmental Site Assessment, 1600 – 1650 Park Street, 1600 – 1606 Foley Street, 2329 Pacific Avenue, Alameda, California. July 5, 2011.

AEI Consultants (AEI) 2011b. Phase II Subsurface Investigation, 1600 to 1630 Park Street, Alameda, California. August 16, 2011.

AEI Consultants (AEI) 2011c. Interim Corrective Action Plan, 1630 Park Street, Alameda, California. September 2011.

AEI Consultants (AEI) 2011d. ICAP Comment Letter Response and Pilot Test Workplan Details, 1630 Park Street, Alameda, California. November 2011.

AEI Consultants (AEI) 2012. Investigation and Remedial Action Workplan, 1630 Park Street, Alameda, California. January 12, 2012.

EPA (United States Environmental Protection Agency). 2004. How to Evaluate Alternative Cleanup Teclmologies for Underground Storage Tank Sites, A Guide for Corrective Action Plan Reviewers. May 2004.

GeoPlexus Incorporated (GeoPlexus) 1993. Supplemental Site Characterization, Good Chevrolet 1630 Park Street, Alameda, CA. October 28, 1993.

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GeoPlexus Incorporated (GeoPlexus) 1998. Preliminary Remedial Risk Assessment for Good Chevrolet 1630 Park Street, Alameda, CA. December 18, 1998.

Groundwater Technology, Inc. (GTI) 1987. Report Subsurface investigation Good Chevrolet 1630 Park Street, Alameda, CA. April 29, 1987.

Helley, E.J. and R.W. Graymer (Helley, et al) 1997. “Quaternary Geology of Alameda County and Surrounding Areas, California: Derived from the Digital Database Open-File 97-97”, 1997

Norfleet Consultants 1998. “Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, California”. Prepared for the Friends of the San Francisco Estuary, P.O. Box 791, Oakland, California. June 15, 1998.

## 11.0 Report Limitations

This report has been prepared by AEI Consultants relating to the property located at 1630 Park Street, in the City of Alameda, Alameda County, California. This report includes a summary of site conditions and relies heavily on information obtained from public records and other resources; AEI makes no warrantee that the information summarized in this report includes consideration of all possible resources or information available for the site, whether referenced on not. Material samples have been collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations is present beneath the property or that all contamination present at the site will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. This document contains estimates of costs for various activities that could be implemented at the site. These estimates are based on reasonably expected costs for similar activities; however, AEI provides no guarantee implicit or explicit that costs will not be significantly higher or lower than those estimated. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and performed under the direction of appropriate California registered professionals.

Should you have any questions, please contact us (925) 746-6000.

Sincerely,
**AEI Consultants**

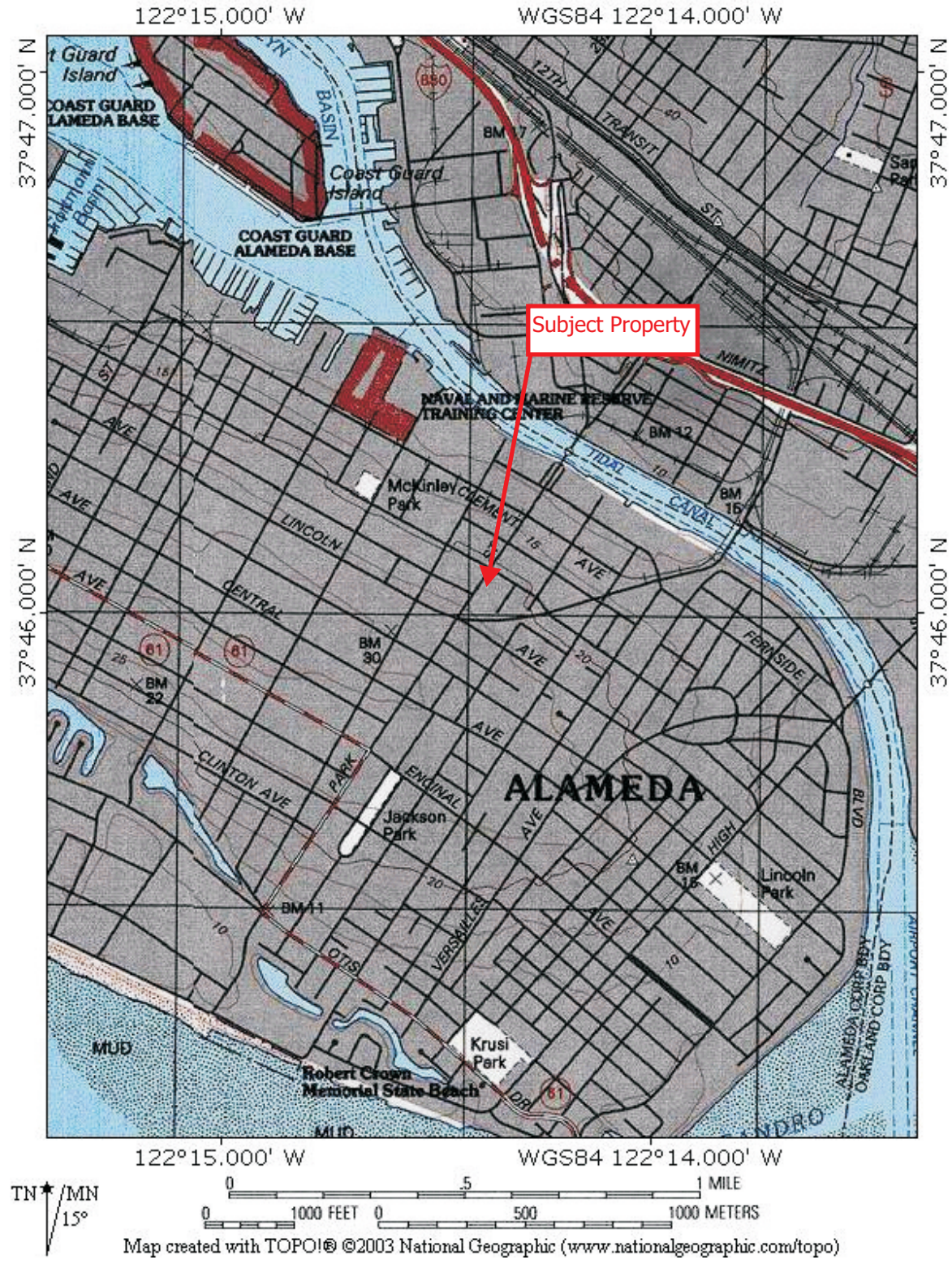
Bryan Campbell, PG
Program Manager

Peter J. McIntyre, PG, REA
Sr. Vice President, Geologist

REGISTERED GEOLOGIST
PETER J. MCINTYRE
Exp. 3/31/12
No. 7702
STATE OF CALIFORNIA

**Distribution:**
John Buestad, Foley Street Investments
Karel Detterman, Alameda County Environmental Health Department
GeoTracker

# FIGURES




WELL

# SITE LOCATION MAP

1630 Park Street, Alameda, California **FIGURE 1**

Project Number: 298931

AEI Consultants


## LEGEND

N

- SUBJECT PROPERTY BOUNDARY
- GEOPHYSICAL SURVEY PERIMETER
- AEI SOIL BORING (7/11)
- SOIL BORING (4/08)

0' 110'

APPROX. SCALE: 1 in = ~110 ft

# SITE LAYOUT MAP

1630 PARK STREET

ALAMEDA, CALIFORNIA

**FIGURE 2**

JOB NO: 298931

AEI Consultants

COMMERCIAL PROPERTIES
SIDEWALK
PARK STREET
DRIVEWAY
DRIVEWAY
SIDEWALK
DRIVEWAY
FENCE
PARKING LOT
PARKING LOT
THE MARKETPLACE
(1650 PARK STREET)
FORMER PAINT BOOTH
(approx. from
1950 Sanborn)
FORMER GOOD CHEVROLET
(1600 - 1630 PARK STREET)

GP18
GP14
GP19
GP13
GP20
GP12
MW-5
GP11
MW-4
DPE-9
EB5
AEI-20
GP5
GP10
DPE-10
GP6
GP4
EB8
MW-3
MW-2
EB9
GP9
AEI-28
DPE-11
VP-1
EB4
GP8
DPE-8
VP-2
DPE-4
EB6
MW-1
GP24
EB10
DPE-1
EB11
GP1
VP-3
AEI-21
AEI-22
GP7
EB12
GP23
EB3
AS-1
AEI-27
DPE-3
DPE-2
DPE-7(a)
EB7
EB1
AEI-4
GP3
EB2
AEI-23
DPE-5
GP21
DPE-6
GP2
AEI-3
GP22
AEI-6
AEI-7
AEI-24
AEI-25
AEI-8
AEI-26

N

0'
20'
APPROX. SCALE: 1 in = ~20 ft

LEGEND

- REMEDIATION WELL (12/11 AND 1/12)
- AEI SOIL BORING (1/12)
- VAPOR PROBE (12/11)
- AEI SOIL BORING (7/11)
- SOIL BORING (4/08)
- SOIL BORING (1/97)
- GROUNDWATER MONITORING WELL

BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC
(a) Proposed well completed as a boring.

# SITE MAP

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 3
JOB NO: 298931

AEI Consultants

COMMERCIAL PROPERTIES
SIDEWALK
DRIVEWAY
DRIVEWAY
PARK STREET
SIDEWALK
FENCE
FENCE
GP18
GP14
GP19
GP13
GP20
GP12
MW-5
THE MARKETPLACE
(1650 PARK STREET)
GP11
MW-4
DPE-9
EB5
PARKING LOT
AEI-20
GP5
GP10
DPE-10
GP6
FORMER PAINT BOOTH
(approx. from
1950 Sanborn)
GP4
EB8
A
MW-3
MW-2
EB9
GP9
AEI-28
DPE-11
VP-1
EB4
GP8
DPE-8
VP-2
DPE-4
EB6
MW-1
B′
GP24
EB10
DPE-1
EB11
GP1
VP-3
AEI-21
AEI-22
GP7
EB12
GP23
EB3
AS-1
AEI-27
DPE-2
DPE-3
DPE-7(a)
EB7
EB1
AEI-4
EB2
GP3
AEI-23
DPE-5
GP21
DPE-6
GP2
AEI-3
GP22
AEI-6
PARKING LOT
B
AEI-7
AEI-25
AEI-8
A′
AEI-24
AEI-26
FORMER GOOD CHEVROLET
(1600 - 1630 PARK STREET)

N

0'  20′

APPROX. SCALE: 1 in = ~20 ft

## LEGEND

- REMEDIATION WELL (12/11 AND 1/12)
- AEI SOIL BORING (1/12)
- VAPOR PROBE (12/11)
- AEI SOIL BORING (7/11)
- SOIL BORING (4/08)
- SOIL BORING (1/97)
- GROUNDWATER MONITORING WELL

BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC
(a) Proposed well completed as a boring.

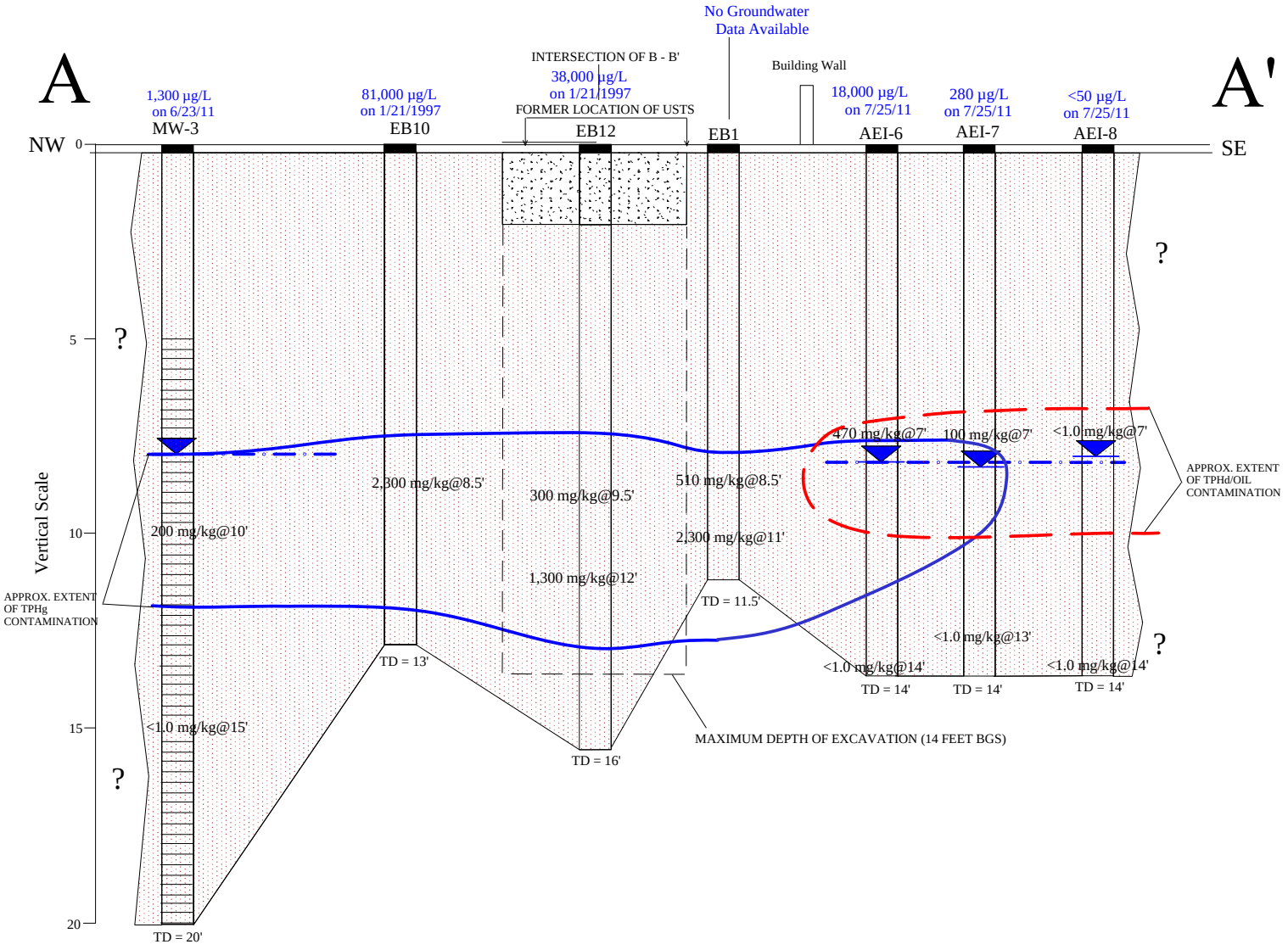
# FENCE DIAGRAM

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 4

JOB NO: 298931

AEI Consultants




*Legend:*

- Sand (with varying amounts of silt)
- Sandy Gravel
- Groundwater Level (static)
- Approx. Extent of TPHd/Oil Contamination
- Approx. Extent of TPHg Contamination

Notes:
Static water levels not reported in "EB" borings
Borings not available for "GP" borings advanced in 2008
TD = Total Depth

* Soil TPHg Data from 1987 to 2011

0 20 40 60 80

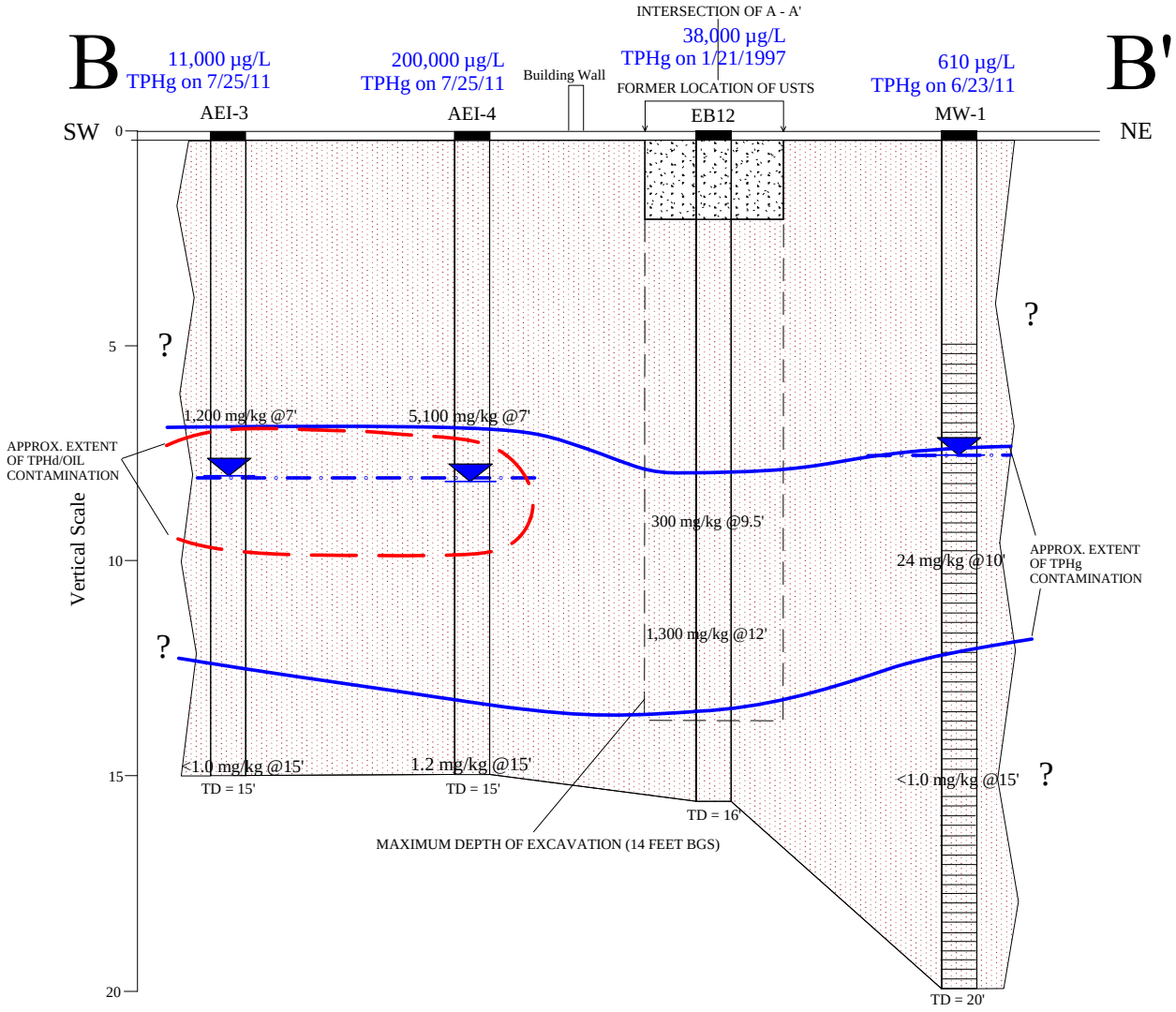
Scale 1" = 20'

AEI CONSULTANTS
2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA

# A - A' Fence Diagram

1630 Park Street
Alameda, CA

**Figure 5**
PROJECT NO. 297553




*Legend:*

- Sand (with varying amounts of silt)
- Sandy Gravel
- Groundwater Level (static)
- Approx. Extent of TPHd/Oil Contamination
- Approx. Extent of TPHg Contamination

Notes:
Static water levels not reported in "EB" borings
Borings not available for "GP" borings advanced in 2008
TD = Total Depth

* Soil TPHg Data from 1987 to 2011

0 15 30 45 60

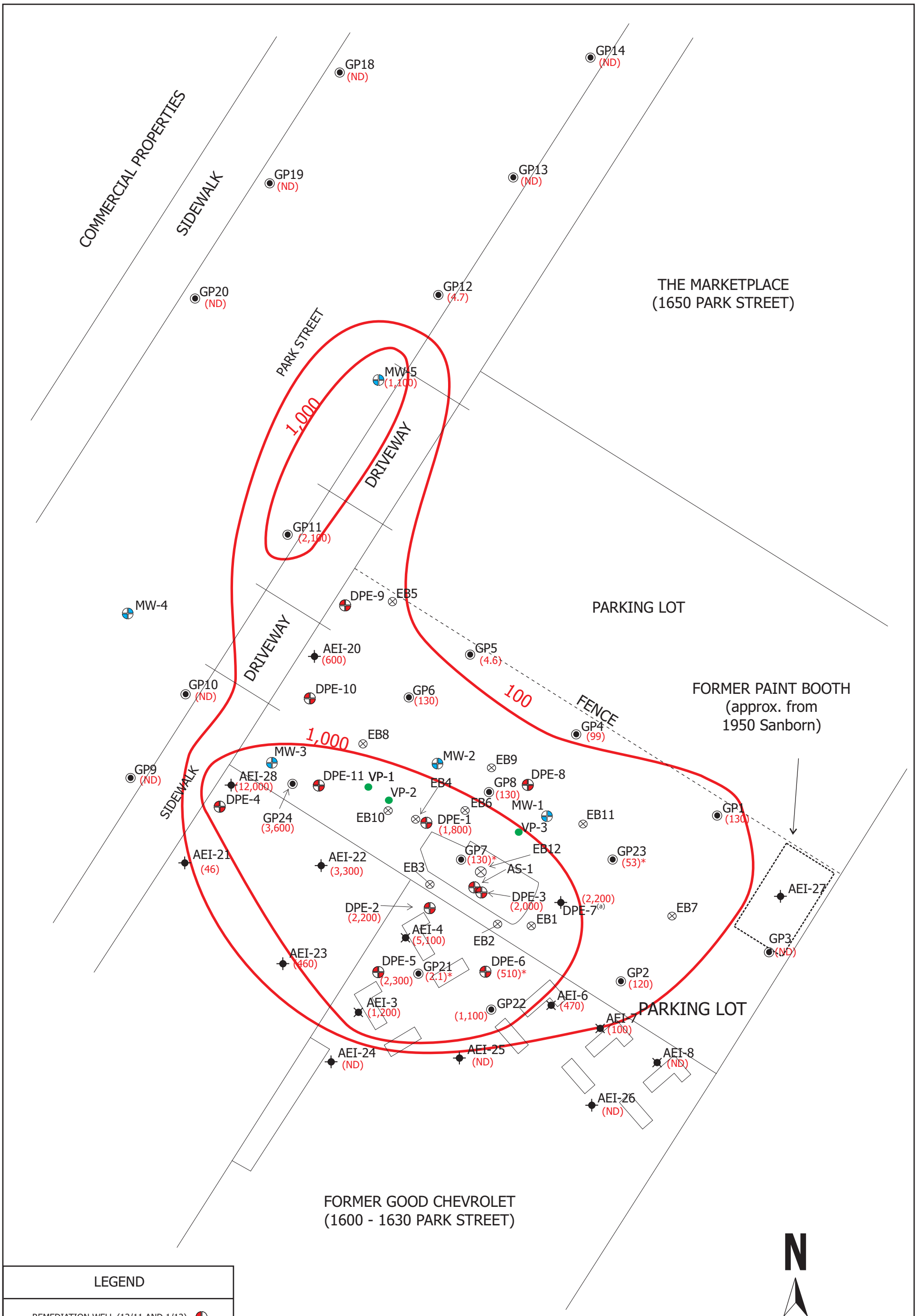
Scale 1" = 15'

AEI CONSULTANTS
2500 CAMINO DIABLO, STE. 100, WALNUT CREEK, CA

# B - B' Fence Diagram

1630 Park Street
Alameda, CA

**Figure 6**
PROJECT NO. 297553




## LEGEND

- REMEDIATION WELL (12/11 AND 1/12)
- AEI SOIL BORING (1/12)
- VAPOR PROBE (12/11)
- AEI SOIL BORING (7/11)
- SOIL BORING (4/08)
- SOIL BORING (1/97)
- GROUNDWATER MONITORING WELL

TPH-G Total Petroleum Hydrocarborns
Data from 2008 to 2012 shown
Maximum concentrations in soil listed in milligrams per kilogram
*Not used for contouring.
BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC
(a) Proposed well completed as a boring.

N

0' 20'

APPROX. SCALE: 1 in = ~20 ft

# TPH-G IN SOIL

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 7

JOB NO: 298931

AEI Consultants

COMMERCIAL PROPERTIES
SIDEWALK
PARK STREET
DRIVEWAY
DRIVEWAY
SIDEWALK
DRIVEWAY
FENCE
1,000
THE MARKETPLACE
(1650 PARK STREET)
PARKING LOT
FORMER PAINT BOOTH
(approx. from
1950 Sanborn)
PARKING LOT
FORMER GOOD CHEVROLET
(1600 - 1630 PARK STREET)
GP14
GP18
GP19
GP13
GP20
GP12
MW-5
(82)
GP11
MW-4
(53)
DPE-9
(4,400)
EB5
AEI-20
GP5
GP10
DPE-10
GP6
GP4
EB8
MW-3
(3,700)
MW-2
(6,500)
EB9
GP9
AEI-28
DPE-11
VP-1
EB4
GP8
DPE-8
VP-2
DPE-4
(730)
GP24
EB6
MW-1
EB10
DPE-1
(9,200)
VP-3
EB11
GP1
AEI-21
AEI-22
GP7
EB12
GP23
EB3
AS-1
AEI-27
DPE-3
(5,500)
DPE-2
(22,000)
DPE-7(a)
EB7
EB1
AEI-4
EB2
GP3
AEI-23
DPE-5
GP21
DPE-6
(64)
GP2
AEI-3
GP22
AEI-6
AEI-7
AEI-24
AEI-25
AEI-8
AEI-26

LEGEND

- REMEDIATION WELL (12/11 AND 1/12)
- AEI SOIL BORING (1/12)
- VAPOR PROBE (12/11)
- AEI SOIL BORING (7/11)
- SOIL BORING (4/08)
- SOIL BORING (1/97)
- GROUNDWATER MONITORING WELL

TPH-G Total Petroleum Hydrocarborns
Maximum concentrations in dissolved-phase groundwater from the 6/23/2011, 12/6/2011, or 1/24/2012 events.

BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC
(a) Proposed well completed as a boring.

N

0' 20'

APPROX. SCALE: 1 in = ~20 ft

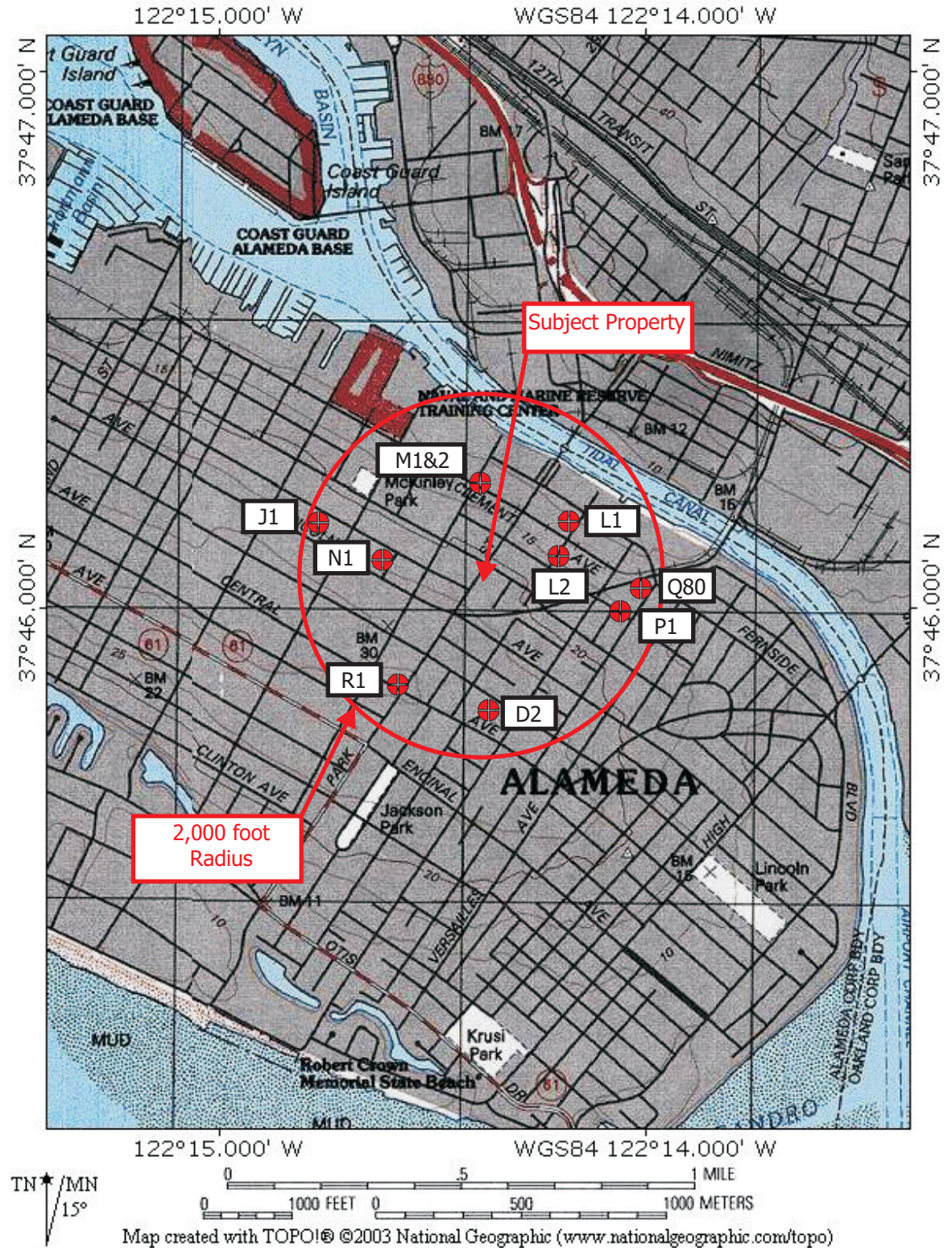
# TPH-G IN GROUNDWATER

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 8

JOB NO: 298931

AEI Consultants




# WELL SEARCH LOCATION MAP

1630 Park Street, Alameda, California

**FIGURE 9**

Project Number: 298931

AEI Consultants

COMMERCIAL PROPERTIES
SIDEWALK
PARK STREET
DRIVEWAY
DRIVEWAY
SIDEWALK
DRIVEWAY
FENCE
PARKING LOT
PARKING LOT
THE MARKETPLACE
(1650 PARK STREET)
FORMER PAINT BOOTH
(approx. from
1950 Sanborn)
FORMER GOOD CHEVROLET
(1600 - 1630 PARK STREET)

GP18
GP14
GP19
GP13
GP20
GP12
MW-5
GP11
MW-4
DPE-9
EB5
AEI-20
GP5
GP10
DPE-10
GP6
EB8
GP4
MW-3
MW-2
EB9
GP9
AEI-28
DPE-11
VP-1
EB4
GP8
DPE-8
DPE-4
VP-2
EB6
MW-1
GP1
GP24
EB10
DPE-1
EB11
VP-3
AEI-21
AEI-22
GP7
EB12
GP23
EB3
AS-1
AEI-27
DPE-3
DPE-2
DPE-7(a)
EB7
EB1
AEI-4
EB2
GP3
AEI-23
DPE-5
GP21
DPE-6
GP2
AEI-3
GP22
AEI-6
AEI-7
AEI-24
AEI-25
AEI-8
AEI-26

N

0'  20'

APPROX. SCALE: 1 in = ~20 ft

## LEGEND

- REMEDIATION WELL (12/11 AND 1/12)
- AEI SOIL BORING (1/12)
- VAPOR PROBE (12/11)
- AEI SOIL BORING (7/11)
- SOIL BORING (4/08)
- SOIL BORING (1/97)
- GROUNDWATER MONITORING WELL

PROPOSED REMEDIATION WELL

BASE MAP MODIFIED FROM: BLYMYER ENGINEERS, INC
(a) Proposed well completed as a boring.

# GROUNDWATER CAPTURE

1630 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE 10
JOB NO: 298931

AEI Consultants

# TABLES

**Table 1**
**Soil Sample Analytical Data**
**TPH, MBTEX and POG**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | TPH-g (mg/kg) | TPH-d* (mg/kg) | TPH-mo* (mg/kg) | MTBE (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | POG (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | EPA Method SW8021B/8015B/m | | | | | EPA Method SM5520E/F |
| MW-1-10 | 1/15/1987 | 10 | 24 | - | - | - | 2.9 | 3.6 | - | 1.8 | - |
| MW-1-15 | 1/15/1987 | 15 | <1.0 | - | - | - | <0.1 | <0.1 | - | <0.1 | - |
| MW-2-5 | 1/15/1987 | 5 | <1.0 | - | - | - | <0.1 | <0.1 | - | <0.1 | - |
| MW-2-10 | 1/15/1987 | 10 | 350 | - | - | - | 14 | 22 | - | 23 | - |
| MW-3-10 | 1/15/1987 | 10 | 200 | - | - | - | 9.8 | 16 | - | 16 | - |
| MW-3-15 | 1/15/1987 | 15 | <1.0 | - | - | - | <0.1 | <0.1 | - | <0.1 | - |
| SB-5-10 | 1/15/1987 | 10 | 6.5 | - | - | - | <0.1 | 0.22 | - | <0.1 | - |
| EB1-S2 | 10/15/1993 | 8.5 | 510 | - | - | - | 0.89 | 10 | 5.8 | 41 | - |
| EB1-S3 | 10/15/1993 | 11 | 2,300 | - | - | - | 22 | 190 | 57 | 280 | - |
| EB2-2S | 10/15/1993 | 10 | 15,000 | - | - | - | 84 | 710 | 260 | 1,400 | - |
| EB2-S3 | 10/15/1993 | 11.5 | 200 | - | - | - | 4.3 | 15 | 3.9 | 20 | - |
| EB3-S2 | 10/15/1993 | 10 | 2,200 | - | - | - | 9.4 | 71 | 42 | 200 | - |
| EB3-S3 | 10/15/1993 | 12.5 | 610 | - | - | - | 1.2 | 3.2 | 4.5 | 2.9 | - |
| EB4-S2 | 10/15/1993 | 8 | 4,900 | - | - | - | 32 | 230 | 84 | 440 | - |
| EB4-S3 | 10/15/1993 | 10.5 | 7,600 | - | - | - | 60 | 390 | 130 | 630 | - |
| EB5-S2 | 10/15/1993 | 9 | 1,800 | - | - | - | <2.5 | 22 | 27 | 140 | - |
| EB5-S3 | 10/15/1993 | 11.5 | 14 | - | - | - | 0.021 | 1.5 | 0.49 | 2.5 | - |
| EB6-S2 | 10/15/1993 | 8.5 | 6,800 | - | - | - | 20 | 230 | 100 | 590 | - |
| EB7-S2 | 10/15/1993 | 6.5 | <50 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - |
| EB7-S3 | 10/15/1993 | 8.5 | 1,000 | - | - | - | 3.8 | 45 | 21 | 110 | - |
| MW4-S1 | 4/20/1994 | 4.5 | <50 | - | - | - | <0.5 | <0.5 | <0.5 | 0.013 | - |
| MW4-S2 | 4/20/1994 | 9 | 9.7 | - | - | - | 1.1 | 0.82 | 0.42 | 1.3 | - |
| MW4-S3 | 4/20/1994 | 14 | <50 | - | - | - | <0.5 | 0.008 | <0.5 | 0.022 | - |
| MW5-S1 | 4/20/1994 | 4.5 | <50 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - |
| MW5-S2 | 4/20/1994 | 9 | 1,100 | - | - | - | 12 | 43 | 20 | 93 | - |
| MW5-S3 | 4/20/1994 | 14 | 1.1 | - | - | - | 0.033 | 0.17 | 0.044 | 0.22 | - |
| EB8-S2 | 1/21/1997 | 9.5 | 2,000 | - | - | <4 | 8.4 | 83 | 44 | 210 | - |
| EB8-S3 | 1/21/1997 | 13.5 | 18 | - | - | 0.10 | 3.2 | 1.2 | 0.47 | 1.7 | - |
| EB9-S1 | 1/21/1997 | 6.5 | 1.8 | - | - | <5 | 0.071 | 0.052 | 0.026 | 0.074 | - |
| EB9-S2 | 1/21/1997 | 9.5 | 1,300 | - | - | <4 | 7.1 | 54 | 29 | 130 | - |
| EB10-S1 | 1/21/1997 | 8.5 | 2,300 | - | - | 9.3 | 9.1 | 100 | 50 | 190 | - |
| EB11-S1 | 1/21/1997 | 9.5 | 3,800 | - | - | <9 | 8.8 | 190 | 97 | 510 | - |
| EB11-S2 | 1/21/1997 | 12 | 13 | - | - | <0.1 | 1.1 | 1.6 | 0.47 | 1.4 | - |

**Table 1**
**Soil Sample Analytical Data**
**TPH, MBTEX and POG**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | TPH-g (mg/kg) | TPH-d* (mg/kg) | TPH-mo* (mg/kg) | MTBE (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | POG (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | EPA Method SW8021B/8015B/m | | | | | EPA Method SM5520E/F |
| EB12-S1 | 1/21/1997 | 9.5 | 300 | - | - | <0.6 | 0.95 | 0.59 | 3.5 | 18 | - |
| EB12-S2 | 1/21/1997 | 12 | 1,300 | - | - | 6.2 | 9.4 | 23 | 35 | 130 | - |
| GP1-11.5 | 4/29/2008 | 11.5 | 130 | - | - | <0.005 | <0.10 | 0.29 | <0.10 | 0.42 | - |
| GP1-15 | 4/29/2008 | 15 | <1.0 | - | - | <0.005 | <0.005 | 0.0081 | 0.0065 | 0.028 | - |
| GP2-11 | 4/29/2008 | 11 | 120 | - | - | <0.010 | <0.050 | 0.87 | 0.43 | 1.2 | - |
| GP2-13.5 | 4/29/2008 | 13.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP3-6.75 | 4/29/2008 | 6.75 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP3-11.5 | 4/29/2008 | 11.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP4-11.5 | 4/29/2008 | 11.5 | 2.7 | - | - | <0.005 | 0.14 | 0.052 | 0.072 | 0.17 | - |
| GP4-14.5 | 4/29/2008 | 14.5 | 99 | - | - | <0.020 | 0.48 | 1.4 | 1.0 | 4.5 | - |
| GP5-11.5 | 4/29/2008 | 11.5 | 4.6 | - | - | <0.005 | 0.12 | 0.078 | 0.14 | 0.48 | - |
| GP5-19 | 4/29/2008 | 19 | 1.5 | - | - | <0.005 | <0.005 | 0.022 | 0.0069 | 0.032 | - |
| GP6-11 | 4/29/2008 | 11 | 130 | - | - | <0.10 | 0.11 | 1.0 | 1.1 | 5.4 | - |
| GP7-8 | 4/30/2008 | 8 | 390 | - | - | <0.050 | 0.84 | 2.2 | 4.3 | 18 | - |
| GP7-19.5 | 4/30/2008 | 19.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP8-8.5 | 5/1/2008 | 8.5 | 1,100 | - | - | <0.050 | <0.10 | 3.2 | 7.3 | 45 | - |
| GP8-19.5 | 5/1/2008 | 19.5 | 5.8 | - | - | <0.005 | 0.0091 | 0.067 | 0.048 | 0.21 | - |
| GP9-7.5 | 5/1/2008 | 7.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP9-11.25 | 5/1/2008 | 11.25 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP10-7.5 | 4/30/2008 | 7.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP10-19.5 | 4/30/2008 | 19.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP11-6 | 4/30/2008 | 6 | <1.0 | - | - | <0.005 | <0.005 | 0.011 | 0.0053 | 0.026 | - |
| GP11-15.5 | 4/30/2008 | 15.5 | 2,100 | - | - | <0.10 | 5.7 | 71 | 38 | 180 | - |
| GP11-18 | 4/30/2008 | 18 | 87 | - | - | <0.020 | 0.059 | 0.93 | 0.67 | 4.2 | - |
| GP12-7.5 | 4/30/2008 | 7.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP12-11 | 4/30/2008 | 11 | 4.7 | - | - | <0.005 | 0.015 | 0.21 | 0.067 | 0.32 | - |
| GP12-15.5 | 4/30/2008 | 15.5 | <1.0 | - | - | <0.005 | <0.005 | 0.0071 | 0.0051 | 0.025 | - |
| GP13-7.25 | 4/30/2008 | 7.25 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP13-11 | 4/30/2008 | 11 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP13-14 | 4/30/2008 | 14 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP14-7.5 | 4/30/2008 | 7.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP14-11 | 4/30/2008 | 11 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP15-7.5 | 4/30/2008 | 7.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |

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**TPH, MBTEX and POG**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | TPH-g (mg/kg) | TPH-d* (mg/kg) | TPH-mo* (mg/kg) | MTBE (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | POG (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | EPA Method SW8021B/8015B/m | | | | | EPA Method SM5520E/F |
| GP16-7.5 | 5/1/2008 | 7.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP16-10.5 | 5/1/2008 | 10.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP17-7.5 | 5/1/2008 | 7.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP17-11.5 | 5/1/2008 | 11.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP18-7.5 | 5/1/2008 | 7.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP18-10 | 5/1/2008 | 10 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP19-7 | 5/1/2008 | 7 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP20-8 | 5/1/2008 | 8 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP21-7.5 | 5/2/2008 | 7.5 | 2.1 | - | - | <0.005 | 0.006 | 0.028 | 0.012 | 0.065 | - |
| GP21-15.5 | 5/2/2008 | 15.5 | <1.0 | - | - | <0.005 | 0.0064 | 0.022 | 0.0057 | 0.027 | - |
| GP21-19.5 | 5/2/2008 | 19.5 | <1.0 | - | - | <0.005 | <0.005 | 0.0092 | <0.005 | 0.023 | - |
| GP22-10.5 | 5/2/2008 | 10.5 | 1,100 | - | - | <0.20 | 0.67 | 13 | 15 | 70 | - |
| GP22-15.5 | 5/2/2008 | 15.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| GP23-7.5 | 5/2/2008 | 7.5 | 53 | - | - | <0.005 | <0.050 | 0.13 | <0.050 | 0.37 | - |
| GP23-11.5 | 5/2/2008 | 11.5 | 1.9 | - | - | <0.005 | 0.062 | 0.041 | 0.043 | 0.18 | - |
| GP23-16 | 5/2/2008 | 16 | 2 | - | - | <0.005 | <0.005 | 0.027 | 0.018 | 0.099 | - |
| GP24-8.5 | 5/2/2008 | 8.5 | 3,600 | - | - | <1.0 | 1.2 | 32 | 62 | 410 | - |
| GP24-19.5 | 5/2/2008 | 19.5 | <1.0 | - | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| AEI-3-7' | 7/25/2011 | 7 | 1,200 | 1,700 | 4,000 | <10 | 2.6 | 25 | 10 | 48 | - |
| AEI-3-15' | 7/25/2011 | 15 | <1.0 | 1.6 | <5.0 | <10 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| AEI-4-7' | 7/25/2011 | 7 | 5,100 | 2,100 | 710 | <50 | 6.2 | 83.0 | 54.0 | 280.0 | - |
| AEI-4-15' | 7/25/2011 | 15 | 1.2 | 1.3 | <5.0 | <0.05 | 0.029 | 0.071 | 0.031 | 0.17 | - |
| AEI-6-7' | 7/25/2011 | 7 | 470 | 10,000 | 24,000 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | - |
| AEI-6-14' | 7/25/2011 | 14 | <1.0 | 1.4 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | - |
| AEI-7-7' | 7/25/2011 | 7 | 100 | 6,300 | 14,000 | - | - | - | - | - | - |
| AEI-7-13' | 7/25/2011 | 13 | <1.0 | 3.7 | 7.4 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | - |
| AEI-8-7' | 7/25/2011 | 7 | <1.0 | 720 | 2,900 | - | - | - | - | - | - |
| AEI-8-14' | 7/25/2011 | 14 | <1.0 | <1.0 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | - |
| AEI-10-8' | 7/26/2011 | 8 | <1.0 | 1.2 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | - |
| AEI-11-3' | 7/26/2011 | 3 | <1.0 | 2.2 | 8.5 | - | - | - | - | - | - |
| AEI-12-3' | 7/26/2011 | 3 | <1.0 | 2.6 | <5.0 | - | - | - | - | - | - |
| AEI-13-3' | 7/26/2011 | 3 | <1.0 | 4.2 | <5.0 | - | - | - | - | - | - |

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**TPH, MBTEX and POG**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | TPH-g (mg/kg) | TPH-d* (mg/kg) | TPH-mo* (mg/kg) | MTBE (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | POG (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | EPA Method SW8021B/8015B/m | | | | | EPA Method SM5520E/F |
| AEI-14-7' | 7/26/2011 | 7 | <1.0 | - | - | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| AEI-15-7' | 7/26/2011 | 7 | <1.0 | - | - | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| AEI-16-7' | 7/26/2011 | 7 | <1.0 | 1.4 | <5.0 | - | | | | - | <50 |
| AEI-17-8' | 7/26/2011 | 8 | <1.0 | 1.1 | <5.0 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| AEI-18-8' | 7/26/2011 | 8 | <1.0 | <1.0 | <5.0 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| AEI-19-8' | 7/26/2011 | 8 | <1.0 | <1.0 | <5.0 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| **AEI-20-7.5'** | **1/17/2012** | **7.5** | **8.4** | **-** | **-** | **<0.05** | **0.0071** | **0.084** | **0.069** | **0.38** | **-** |
| **AEI-20-11'** | **1/17/2012** | **11** | **600** | **-** | **-** | **<0.50** | **0.89** | **2.9** | **10** | **39** | **-** |
| **AEI-20-15'** | **1/17/2012** | **15** | **3.3** | **-** | **-** | **<0.05** | **<0.005** | **0.028** | **<0.005** | **0.017** | **-** |
| **AEI-21-7'** | **1/17/2012** | **7** | **<1.0** | **-** | **-** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-21-11'** | **1/17/2012** | **11** | **46** | **-** | **-** | **<0.05** | **0.020** | **0.42** | **0.27** | **0.60** | **-** |
| **AEI-21-14'** | **1/17/2012** | **14** | **<1.0** | **-** | **-** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-22-9'** | **1/17/2012** | **9** | **3,100** | **-** | **-** | **<0.05** | **3.2** | **46** | **62** | **400** | **-** |
| **AEI-22-11'** | **1/17/2012** | **11** | **8.6** | **-** | **-** | **<0.10** | **0.71** | **0.77** | **0.31** | **1.3** | **-** |
| **AEI-22-14'** | **1/17/2012** | **14** | **3,300** | **-** | **-** | **<0.05** | **8.3** | **84** | **61** | **370** | **-** |
| **AEI-23-6'** | **1/17/2012** | **6** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-23-9.5'** | **1/17/2012** | **9.5** | **7.5** | **100** | **180** | **<0.05** | **<0.005** | **0.027** | **<0.005** | **0.0055** | **-** |
| **AEI-23-12.5'** | **1/17/2012** | **12.5** | **460** | **360** | **270** | **<5.0** | **<0.50** | **1.4** | **<0.50** | **0.80** | **-** |
| **AEI-24-7'** | **1/17/2012** | **7** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-24-10.5'** | **1/17/2012** | **10.5** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-24-13'** | **1/17/2012** | **13** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-25-7.5'** | **1/17/2012** | **7.5** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-25-10'** | **1/17/2012** | **10** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-25-14'** | **1/17/2012** | **14** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-26-7.5'** | **1/17/2012** | **7.5** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-26-10.5'** | **1/17/2012** | **10.5** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-26-14'** | **1/17/2012** | **14** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-27-3'** | **1/17/2012** | **3** | **<1.0** | **3.2** | **7.9** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **0.013** | **-** |
| **AEI-28-7'** | **1/17/2012** | **7** | **<1.0** | **<1.0** | **<5.0** | **<0.05** | **<0.005** | **<0.005** | **<0.005** | **<0.005** | **-** |
| **AEI-28-11'** | **1/17/2012** | **11** | **12,000** | **2,100** | **44** | **<10** | **21** | **210** | **210** | **1,000** | **-** |
| **AEI-28-13'** | **1/17/2012** | **13** | **7.8** | **2.0** | **<5.0** | **<0.05** | **0.050** | **0.29** | **0.31** | **1.4** | **-** |
| **DPE-1, 7-7.5'** | **11/15/2011** | **7** | **1,800** | **330** | **46** | **<50** | **9.7** | **64** | **29** | **150** | **-** |
| **DPE-2, 8-8.5'** | **11/15/2011** | **8** | **2,200** | **280** | **140** | **<15** | **7.6** | **57** | **34** | **170** | **-** |

**Table 1**
**Soil Sample Analytical Data**
**TPH, MBTEX and POG**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | TPH-g (mg/kg) | TPH-d* (mg/kg) | TPH-mo* (mg/kg) | MTBE (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | POG (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | EPA Method SW8021B/8015B/m | | | | | EPA Method SM5520E/F |
| DPE-3, 8-8.5' | 11/14/2011 | 8 | 2,000 | 1,000 | 58 | <50 | 6.7 | 48 | 47 | 240 | - |
| DPE-5, 11' | 1/20/2012 | 11 | 2,300 | - | - | <10 | 15 | 99 | 33 | 140 | - |
| DPE-5, 14' | 1/20/2012 | 14 | 1.1 | - | - | <0.05 | <0.005 | 0.17 | <0.005 | 0.016 | - |
| DPE-6, 10' | 1/20/2012 | 10 | 510 | - | - | <1.0 | <0.10 | 0.14 | 0.47 | 0.96 | - |
| DPE-6, 14' | 1/20/2012 | 14 | <1.0 | - | - | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | - |
| DPE-7, 10' | 1/19/2012 | 10 | 2,200 | - | - | <5.0 | <5.0 | 16 | 47 | 240 | - |
| DPE-7, 14.5' | 1/19/2012 | 14.5 | 610 | - | - | <5.0 | <5.0 | 3.9 | 9.5 | 55 | - |

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit
TPH = total petroleum hydrocarbons
TPH-g = TPH as gasoline
TPH-d = TPH as diesel
TPH-mo = TPH as motor oil
POG = petroleum oil and grease
MTBE = methyl butyl tertiary ethyl
"<" = less than
"*" = with silica gel cleanup
"-" = not available

**Table 2**
**Soil Sample Analytical Data**
**VOCs, Fuel Oxygenates, SVOCs, and PCBs**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | 1,4-Dioxane (mg/kg) EPA Method SW8260 | All target VOCs (mg/kg) EPA Method SW8260 | Fuel Oxygenates^ (mg/kg) EPA Method SW8260B | All target SVOCs (mg/kg) EPA Method 8270 | All other target PCBs (mg/kg) EPA Method SW8082 |
|---|---|---|---|---|---|---|---|
| GP1-11.5 | 4/29/2008 | 11.5 | - | - | <MDL | - | - |
| GP1-15 | 4/29/2008 | 15 | - | - | <MDL | - | - |
| GP2-11 | 4/29/2008 | 11 | - | - | <MDL | - | - |
| GP2-13.5 | 4/29/2008 | 13.5 | - | - | <MDL | - | - |
| GP3-6.75 | 4/29/2008 | 6.75 | - | - | <MDL | - | - |
| GP3-11.5 | 4/29/2008 | 11.5 | - | - | <MDL | - | - |
| GP4-11.5 | 4/29/2008 | 11.5 | - | - | <MDL | - | - |
| GP4-14.5 | 4/29/2008 | 14.5 | - | - | <MDL | - | - |
| GP5-11.5 | 4/29/2008 | 11.5 | - | - | <MDL | - | - |
| GP5-19 | 4/29/2008 | 19 | - | - | <MDL | - | - |
| GP6-11 | 4/29/2008 | 11 | - | - | <MDL | - | - |
| GP7-8 | 4/30/2008 | 8 | - | - | <MDL | - | - |
| GP7-19.5 | 4/30/2008 | 19.5 | - | - | <MDL | - | - |
| GP8-8.5 | 5/1/2008 | 8.5 | - | - | <MDL | - | - |
| GP8-19.5 | 5/1/2008 | 19.5 | - | - | <MDL | - | - |
| GP9-7.5 | 5/1/2008 | 7.5 | - | - | <MDL | - | - |
| GP9-11.25 | 5/1/2008 | 11.25 | - | - | <MDL | - | - |
| GP10-7.5 | 4/30/2008 | 7.5 | - | - | <MDL | - | - |
| GP10-19.5 | 4/30/2008 | 19.5 | - | - | <MDL | - | - |
| GP11-6 | 4/30/2008 | 6 | - | - | <MDL | - | - |
| GP11-15.5 | 4/30/2008 | 15.5 | - | - | <MDL | - | - |
| GP11-18 | 4/30/2008 | 18 | - | - | <MDL | - | - |
| GP12-7.5 | 4/30/2008 | 7.5 | - | - | <MDL | - | - |
| GP12-11 | 4/30/2008 | 11 | - | - | <MDL | - | - |
| GP12-15.5 | 4/30/2008 | 15.5 | - | - | <MDL | - | - |
| GP13-7.25 | 4/30/2008 | 7.25 | - | - | <MDL | - | - |
| GP13-11 | 4/30/2008 | 11 | - | - | <MDL | - | - |
| GP13-14 | 4/30/2008 | 14 | - | - | <MDL | - | - |
| GP14-7.5 | 4/30/2008 | 7.5 | - | - | <MDL | - | - |
| GP14-11 | 4/30/2008 | 11 | - | - | <MDL | - | - |
| GP15-7.5 | 4/30/2008 | 7.5 | - | - | <MDL | - | - |

**Table 2**
**Soil Sample Analytical Data**
**VOCs, Fuel Oxygenates, SVOCs, and PCBs**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | 1,4-Dioxane (mg/kg) EPA Method SW8260 | All target VOCs (mg/kg) EPA Method SW8260 | Fuel Oxygenates^ (mg/kg) EPA Method SW8260B | All target SVOCs (mg/kg) EPA Method 8270 | All other target PCBs (mg/kg) EPA Method SW8082 |
|---|---|---|---|---|---|---|---|
| GP16-7.5 | 5/1/2008 | 7.5 | - | - | <MDL | - | - |
| GP16-10.5 | 5/1/2008 | 10.5 | - | - | <MDL | - | - |
| GP17-7.5 | 5/1/2008 | 7.5 | - | - | <MDL | - | - |
| GP17-11.5 | 5/1/2008 | 11.5 | - | - | <MDL | - | - |
| GP18-7.5 | 5/1/2008 | 7.5 | - | - | <MDL | - | - |
| GP18-10 | 5/1/2008 | 10 | - | - | <MDL | - | - |
| GP19-7 | 5/1/2008 | 7 | - | - | <MDL | - | - |
| GP20-8 | 5/1/2008 | 8 | - | - | <MDL | - | - |
| GP21-7.5 | 5/2/2008 | 7.5 | - | - | <MDL | - | - |
| GP21-15.5 | 5/2/2008 | 15.5 | - | - | <MDL | - | - |
| GP21-19.5 | 5/2/2008 | 19.5 | - | - | <MDL | - | - |
| GP22-10.5 | 5/2/2008 | 10.5 | - | - | <MDL | - | - |
| GP22-15.5 | 5/2/2008 | 15.5 | - | - | <MDL | - | - |
| GP23-7.5 | 5/2/2008 | 7.5 | - | - | <MDL | - | - |
| GP23-11.5 | 5/2/2008 | 11.5 | - | - | <MDL | - | - |
| GP23-16 | 5/2/2008 | 16 | - | - | <MDL | - | - |
| GP24-8.5 | 5/2/2008 | 8.5 | - | - | <MDL | - | - |
| GP24-19.5 | 5/2/2008 | 19.5 | - | - | <MDL | - | - |
| AEI-3-10' | 7/25/2011 | 10 | - | - | - | - | <1.0 |
| AEI-4-10' | 7/25/2011 | 10 | - | - | - | - | <0.25 |
| AEI-6-10' | 7/25/2011 | 10 | - | - | - | - | <0.05 |
| AEI-7-11' | 7/25/2011 | 11 | - | - | - | - | <0.50 |
| AEI-8-11' | 7/25/2011 | 11 | - | - | - | - | <0.05 |
| AEI-11-3' | 7/26/2011 | 3 | - | <MDL | - | - | - |
| AEI-12-3' | 7/26/2011 | 3 | - | <MDL | - | - | - |
| AEI-13-3' | 7/26/2011 | 3 | - | <MDL | - | - | - |
| AEI-14-7' | 7/26/2011 | 7 | - | - | <MDL | - | - |

**Table 2**
**Soil Sample Analytical Data**
**VOCs, Fuel Oxygenates, SVOCs, and PCBs**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | 1,4-Dioxane (mg/kg) EPA Method SW8260 | All target VOCs (mg/kg) EPA Method SW8260 | Fuel Oxygenates^ (mg/kg) EPA Method SW8260B | All target SVOCs (mg/kg) EPA Method 8270 | All other target PCBs (mg/kg) EPA Method SW8082 |
|---|---|---|---|---|---|---|---|
| AEI-15-7' | 7/26/2011 | 7 | - | - | <MDL | - | - |
| AEI-16-7' | 7/26/2011 | 7 | <0.02 | <MDL | <MDL | <MDL | <0.05 |
| **AEI-27-3'** | **1/17/2012** | **3** | **-** | **<MDL** | **-** | **-** | **-** |

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit
VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
PCBs = polychlorinated biphenyls
"<" = less than
"-" = not available
"^" = fuel oxygenates tert-amyl methyl ether (TAME), t-butyl alcohol (TBA), 1,2-dibromomethane (EDB), 1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol, ethanol, ethyl tert-butyl ether (ETBE), methyl tert-butyl ether (MTBE), and 1,2-Dichloroethane (EDC)

**Table 3**
**Groundwater Sample Analytical Data**
**TPH, MBTEX and TRPH**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | TPH-g (µg/L) | TPH-d* (µg/L) | TPH-mo* (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | TRPH (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | EPA Method SW8021B/8015Bm | | | | | EPA Method E418.1 |
| HP-1 | 4/23/1993 | <50 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - |
| HP-2 | 4/23/1993 | <50 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - |
| EB3-WSIA | 10/15/1993 | 120,000 | - | - | - | 9,600 | 20,000 | 3,400 | 14,000 | - |
| EB5-WSIA | 10/15/1993 | 83,000 | - | - | - | 3,900 | 15,000 | 3,100 | 13,000 | - |
| EB8-WS1 | 1/21/1997 | 25,000 | - | - | <80 | 2,600 | 3,200 | 780 | 3,600 | - |
| EB10-WS1 | 1/21/1997 | 81,000 | - | - | <370 | 13,000 | 12,000 | 3,300 | 8,000 | - |
| EB11-WS1 | 1/21/1997 | 49,000 | - | - | <180 | 6,900 | 6,000 | 2,100 | 4,600 | - |
| EB12-WS1 | 1/21/1997 | 38,000 | - | - | 110 | 1,400 | 1,400 | 1,800 | 7,400 | - |
| P1-WS1 | 1/21/1997 | 74,000 | - | - | <78 | 1,100 | 5,800 | 3,800 | 18,000 | - |
| P2-WS1 | 1/21/1997 | 6,800 | - | - | <10 | 2,200 | 290 | 310 | 560 | - |
| P3-WS1 | 1/21/1997 | 220 | - | - | <5.0 | 1.9 | 17 | 10 | 49 | - |
| GP1W | 4/29/2008 | 70,000 | - | - | <500 | 6,800 | 6,600 | 2,300 | 12,000 | - |
| GP2W | 4/29/2008 | 910 | - | - | <5.0 | 0.69 | 2.9 | 30 | 64 | - |
| GP3W | 4/29/2008 | <50 | - | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| GP4W | 4/29/2008 | 46,000 | - | - | <500 | 570 | 3,200 | 1,500 | 7,500 | - |
| GP5W | 4/29/2008 | 12,000 | - | - | <60 | 140 | 480 | 270 | 1,100 | - |
| GP6W | 4/29/2008 | 22,000 | - | - | <170 | 920 | 1,600 | 900 | 3,500 | - |
| GP7W | 4/30/2008 | 22,000 | - | - | <180 | 2,600 | 320 | 810 | 2,600 | - |
| GP8W | 5/1/2008 | 140,000 | - | - | <650 | 9,000 | 20,000 | 4,300 | 21,000 | - |
| GP9W | 5/1/2008 | 550 | - | - | <5.0 | 53 | 0.52 | 2.1 | 25 | - |
| GP10W | 4/30/2008 | 11,000 | - | - | <100 | 1,900 | 490 | 480 | 770 | - |
| GP11W | 4/30/2008 | 42,000 | - | - | <452 | 1,900 | 4,200 | 1,700 | 7,600 | - |

**Table 3**
**Groundwater Sample Analytical Data**
**TPH, MBTEX and TRPH**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | TPH-g (µg/L) | TPH-d* (µg/L) | TPH-mo* (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | TRPH (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | EPA Method SW8021B/8015Bm | | | | | EPA Method E418.1 |
| GP12W | 4/30/2008 | 61,000 | - | - | <500 | 4,500 | 11,000 | 1,700 | 7,700 | - |
| GP13W | 4/30/2008 | 6,200 | - | - | <10 | 220 | 53 | 150 | 440 | - |
| GP14W | 4/30/2008 | 300 | - | - | <5.0 | 46 | 1.9 | 19 | 11 | - |
| GP15W | 4/30/2008 | <50 | - | - | <5.0 | <0.5 | 0.69 | <0.5 | 1.1 | - |
| GP16W | 5/1/2008 | <50 | - | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| GP17W | 5/1/2008 | <50 | - | - | <5.0 | <0.5 | 1.7 | <0.5 | 2 | - |
| GP18W | 5/1/2008 | <50 | - | - | <5.0 | <0.5 | 2.1 | 0.79 | 4 | - |
| GP19W | 5/1/2008 | 85 | - | - | <5.0 | <0.5 | 0.80 | <0.5 | <0.5 | - |
| GP20W | 5/1/2008 | <50 | - | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| GP21W | 5/2/2008 | 9,400 | - | - | <50 | 560 | 1,400 | 260 | 1,300 | - |
| GP22W | 5/2/2008 | 3,900 | - | - | <25 | 36 | 160 | 120 | 610 | - |
| GP23W | 5/2/2008 | 16,000 | - | - | <90 | 830 | 1,900 | 540 | 2,600 | - |
| GP24W | 5/2/2008 | 110,000 | - | - | <450 | 6,500 | 4,200 | 3,100 | 13,000 | - |
| AEI-1-W | 7/25/2011 | <50 | <50 | <250 | - | | | | - | - |
| AEI-2-W | 7/25/2011 | <50 | <50 | <250 | - | | | | - | - |
| AEI-3-W | 7/25/2011 | 11,000 | 12,000 | 29,000 | <50 | 1,100 | 1,900 | 210 | 860 | - |
| AEI-4-W | 7/25/2011 | 200,000 | 25,000 | 19,000 | <500 | 21,000 | 30,000 | 3,600 | 16,000 | - |
| AEI-5-W | 7/25/2011 | <50 | <50 | <250 | - | - | - | - | - | - |
| AEI-6-W | 7/25/2011 | 18,000 | 120,000 | 300,000 | <50 | <5.0 | 7.7 | <5.0 | 28 | - |
| AEI-7-W | 7/25/2011 | 280 | 11,000 | 28,000 | - | - | - | - | - | - |
| AEI-8-W | 7/25/2011 | <50 | 1,600 | 3,800 | - | - | - | - | - | - |
| AEI-9-W | 7/25/2011 | <50 | <50 | <250 | - | - | - | - | - | - |

**Table 3**
**Groundwater Sample Analytical Data**
**TPH, MBTEX and TRPH**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | TPH-g (µg/L) | TPH-d* (µg/L) | TPH-mo* (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | TRPH (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | EPA Method SW8021B/8015Bm | | | | | EPA Method E418.1 |
| AEI-10-W | 7/26/2011 | <50 | <50 | 400 | - | - | - | - | - | - |
| AEI-14-W | 7/26/2011 | <50 | - | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| AEI-15-W | 7/26/2011 | <50 | - | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| AEI-16-W | 7/26/2011 | <50 | <50 | <250 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1.0 |
| AEI-17-W | 7/26/2011 | <50 | 89 | 590 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| AEI-18-W | 7/26/2011 | <50 | <100 | <500 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| AEI-19-W | 7/26/2011 | <50 | <100 | <500 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| **AEI-20** | **1/17/2012** | **130,000** | **-** | **-** | **<500** | **1,200** | **2,200** | **4,400** | **20,000** | |
| **AEI-21** | **1/17/2012** | **110,000** | **-** | **-** | **<500** | **160** | **520** | **1,200** | **3,300** | |
| **AEI-22** | **1/17/2012** | **61,000** | **-** | **-** | **<500** | **790** | **4,400** | **1,500** | **7,200** | |
| **AEI-23** | **1/17/2012** | **9,000** | **8,400** | **1,500** | **<50** | **<5.0** | **16** | **12** | **<5.0** | |
| **AEI-24** | **1/17/2012** | **<50** | **<50** | **<250** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | |
| **AEI-25** | **1/17/2012** | **<50** | **<50** | **<250** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | |
| **AEI-26** | **1/17/2012** | **<50** | **<50** | **<250** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | |
| **AEI-27** | **1/17/2012** | **<50** | **<100** | **<500** | **<5.0** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | |
| **AEI-28** | **1/17/2012** | **16,000** | **4,500** | **<250** | **<100** | **160** | **690** | **540** | **2,500** | |

µg/L = micrograms per liter
TPH = total petroleum hydrocarbons
TPH-g = TPH as gasoline
TPH-d = TPH as diesel
TPH-mo = TPH as motor oil
MTBE = methyl tertiary butyl ether
"*" = with silica gel cleanup
"-" = not available
"<" = less than
MDL = method detection limit
TRPH = total recoverable petroleum hydrocarbons
MTBE and BTEX analysis for AEI-16-W performed by EPA Method SW8260B

**Table 4**
**Groundwater Sample Analytical Data**
**VOCs, Fuel Oxygenates, SVOCs, and PCBs**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | 1,4-Dioxane (µg/L) | TBA (µg/L) | EDB (µg/L) | EDC (µg/L) | MTBE (µg/L) | Fuel Oxygenates^ (µg/L) | All Target VOCs (µg/L) | All Target SVOCs (µg/L) | All Target PCBs (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | EPA Method SW8260B | | | | EPA Method 8270 | EPA Method SW8082 |
| GP1W | 4/29/2008 | - | <20 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP2W | 4/29/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP3W | 4/29/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP4W | 4/29/2008 | - | <20 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP5W | 4/29/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP6W | 4/29/2008 | - | 24 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP7W | 4/30/2008 | - | <20 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP8W | 5/1/2008 | - | <20 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP9W | 5/1/2008 | - | 7.7 | <0.5 | 1.1 | 1.2 | <MDL | - | - | - |
| GP10W | 4/30/2008 | - | <20 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP11W | 4/30/2008 | - | <20 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP12W | 4/30/2008 | - | <20 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP13W | 4/30/2008 | - | 8.9 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP14W | 4/30/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP15W | 4/30/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP16W | 5/1/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP17W | 5/1/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP18W | 5/1/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP19W | 5/1/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP20W | 5/1/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP21W | 5/2/2008 | - | <2.0 | 0.65 | <0.5 | <0.5 | <MDL | - | - | - |

**Table 4**
**Groundwater Sample Analytical Data**
**VOCs, Fuel Oxygenates, SVOCs, and PCBs**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | 1,4-Dioxane (µg/L) | TBA (µg/L) | EDB (µg/L) | EDC (µg/L) | MTBE (µg/L) | Fuel Oxygenates^ (µg/L) | All Target VOCs (µg/L) | All Target SVOCs (µg/L) | All Target PCBs (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | EPA Method SW8260B | | | | EPA Method 8270 | EPA Method SW8082 |
| GP22W | 5/2/2008 | - | <2.0 | <0.5 | <0.5 | <0.5 | <MDL | - | - | - |
| GP23W | 5/2/2008 | - | <20 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| GP24W | 5/2/2008 | - | 75 | <5.0 | <5.0 | <5.0 | <MDL | - | - | - |
| **AEI-14-W** | **7/26/2011** | **-** | **<2.0** | **<0.5** | **<0.5** | **<0.5** | **<MDL** | **-** | **-** | **-** |
| **AEI-15-W** | **7/26/2011** | **-** | **<2.0** | **<0.5** | **<0.5** | **<0.5** | **<MDL** | **-** | **-** | **-** |
| **AEI-16-W** | **7/26/2011** | **<2.0** | **<2.0** | **<0.5** | **<0.5** | **<0.5** | **<MDL** | **<MDL** | **<MDL** | **<0.5** |
| **AEI-27** | **1/17/2012** | **-** | **-** | **-** | **-** | **-** | **-** | **<MDL** | **-** | **-** |

mg/kg = milligrams per kilogram (equivalent to parts per million)
MDL = method detection limit
VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
PCBs = polychlorinated biphenyls
TBA = t-butyl alcohol
EDB = 1,2-dibromomethane
EDC = 1,2-dichloroethane
MTBE = methyl tert-butyl ether
"-" = not available
"<" = less than
"^" = fuel oxygenates tert-amyl methyl ether (TAME),
1,2-dichloroethane (1,2-DCA), diisopropyl ether (DIPE), methanol,
ethanol, and ethyl tert-butyl ether (ETBE)

**Table 5**
**Soil Sample Analytical Data**
**Metals**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date Collected | Approx. Depth (feet) | Cd | Cr (total)* | Pb | Ni | Zn |
|---|---|---|---|---|---|---|---|
| | | | mg/kg | mg/kg | mg/kg<br>EPA Method SW6010B | mg/kg | mg/kg |
| AEI-11-3' | 7/26/2011 | 3 | <1.5 | 60 | <5.0 | 24 | 16 |
| AEI-12-3' | 7/26/2011 | 3 | <1.5 | 31 | <5.0 | 15 | 10 |
| AEI-13-3' | 7/26/2011 | 3 | <1.5 | 29 | <5.0 | 14 | 9.7 |
| AEI-14-7' | 7/26/2011 | 7 | - | - | <5.0 | - | - |
| AEI-15-7' | 7/26/2011 | 7 | - | - | <5.0 | - | - |
| AEI-16-7' | 7/26/2011 | 7 | <1.5 | 54 | <5.0 | 48 | 27 |
| AEI-17-8' | 7/26/2011 | 8 | - | - | <5.0 | - | - |
| AEI-18-8' | 7/26/2011 | 8 | - | - | <5.0 | - | - |
| AEI-19-8' | 7/26/2011 | 8 | - | - | <5.0 | - | - |
| ***AEI-27-3'** | **1/17/2012** | **3** | **<0.25** | **38** | **140** | **17** | **140** |

**Notes:**
mg/kg = milligrams per kilogram
"-" = not available
Cd = Cadmium
Cr = Chromium
Pb = Lead
Ni = Nickel
Zn = Zinc
*AEI-27-3' = Antimony - 1.2 mg/kg, Arsenic - 4.0 mg/kg, Barium - 130 mg/kg, Cobalt - 3.7 mg/kg, Copper - 18 mg/kg, Mercury - 0.32 mg/kg and Vanadium - 28 mg/kg by CAM 17 EPA Method SW3050B.

# Table 6
# Groundwater Sample Analytical Data
# Metals
# AEI Project No. 298931, 1630 Park Street, Alameda, California

| Sample ID | Date Collected | Cd µg/L | Cr (total) µg/L | Pb µg/L | Ni µg/L | Zn µg/L |
|---|---|---|---|---|---|---|
| | | | | EPA Method E200.8 | | |
| AEI-14-W* | 7/26/2011 | - | - | 21 | - | - |
| AEI-15-W* | 7/26/2011 | - | - | 66 | - | - |
| AEI-16-W** | 7/26/2011 | <0.25 | <0.5 | <0.5 | 8.7 | <5.0 |

**Notes:**
µg/L = micrograms per liter
"*" = total
"**" = dissolved
Cd = Cadmium
Cr = Chromium
Pb =Lead
Ni = Nickel
Zn = Zinc

**Table 7**
**Well Construction Details**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Well ID Number | Well Installation Date | Elevation TOC (feet) | Casing Material | Total Depth (feet) | Well Depth (feet) | Borehole Diameter (inches) | Casing Diameter (inches) | Screened Interval (feet) | Slot Size (inches) | Filter Pack Interval (feet) | Filter Pack Material |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AS-1 | 11/14/2011 | - | PVC | 25 | 25 | 8 | 2 | 20 - 25 | 0.020 | 20 - 25 | #3 Sand |
| DPE-1 | 11/15/2011 | - | PVC | 16 | 15 | 10 | 4 | 7 - 15 | 0.010 | 6.5 - 16 | #2/12 Sand |
| DPE-2 | 11/15/2011 | - | PVC | 16 | 15 | 10 | 4 | 7 - 15 | 0.010 | 6.5 - 16 | #2/12 Sand |
| DPE-3 | 11/14/2011 | - | PVC | 16 | 14 | 10 | 4 | 7 - 14 | 0.010 | 6.5 - 16 | #2/12 Sand |
| DPE-4 | 1/19/2012 | - | PVC | 17 | 17 | 10 | 4 | 8 - 17 | 0.010 | 7.5 - 17 | #2/12 Sand |
| DPE-5 | 1/20/2012 | - | PVC | 18 | 18 | 10 | 4 | 8 - 18 | 0.010 | 7.5 - 18 | #2/12 Sand |
| DPE-6 | 1/20/2012 | - | PVC | 18 | 18 | 10 | 4 | 8 - 18 | 0.010 | 7.5 - 18 | #2/12 Sand |
| DPE-8 | 1/20/2012 | - | PVC | 18 | 18 | 10 | 4 | 8 - 18 | 0.010 | 7.5 - 18 | #2/12 Sand |
| DPE-9 | 1/20/2012 | - | PVC | 18 | 18 | 10 | 4 | 8 - 18 | 0.010 | 7.5 - 18 | #2/12 Sand |
| DPE-10 | 1/20/2012 | - | PVC | 17 | 17 | 10 | 4 | 8 - 17 | 0.010 | 7.5 - 17 | #2/12 Sand |
| DPE-11 | 1/20/2012 | - | PVC | 18 | 18 | 10 | 4 | 8 - 18 | 0.010 | 7.5 - 18 | #2/12 Sand |
| MW-1 | 1/15/1987 | - | PVC | - | 20 | 8 | 2 | 5 - 20 | - | - | - |
| MW-2 | 1/15/1987 | - | PVC | - | 20 | 8 | 2 | 5 - 20 | - | - | - |
| MW-3 | 1/15/1987 | - | PVC | - | 20 | 8 | 2 | 5 - 20 | - | - | - |
| MW-4 | 4/20/1994 | - | PVC | - | 23 | 8 | 2 | 8 - 23 | - | - | - |
| MW-5 | 4/20/1994 | - | PVC | - | 22 | 8 | 2 | 7 - 22 | - | - | - |
| VP-1 | 12/6/2011 | - | Stainless Steel | 6 | 6 | 1.25 | 1/4 | 5.1 - 5.6 | Mesh | 4.7 - 6 | #3 Sand |
| VP-2 | 12/6/2011 | - | Stainless Steel | 5.9 | 5.9 | 1.25 | 1/4 | 5.1-5.6 | Mesh | 4.7-5.9 | #3 Sand |
| VP-3 | 12/6/2011 | - | Stainless Steel | 5.75 | 5.75 | 1.25 | 1/4 | 5.1-5.6 | Mesh | 4.7-5.75 | #3 Sand |

PVC = polyvinyl chloride
TOC = top of casing
"-" = not available

**Table 8**
**Groundwater Elevation Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Well ID (Screen Interval) | Date Collected | Well Elevation (ft amsl) | Depth to Water (feet) | Groundwater Elevation (ft amsl) |
|---|---|---|---|---|
| MW-1 | Jul-89 | 104.76 | 8.93 | 95.83 |
| (5 - 20 feet bgs) | Apr-91 | | 7.59 | 97.17 |
| | Jul-92 | | 8.72 | 96.04 |
| | Aug-92 | | 9.09 | 95.67 |
| | Sep-92 | | 9.25 | 95.51 |
| | Oct-92 | | 9.34 | 95.42 |
| | Nov-92 | | 9.21 | 95.55 |
| | Dec-92 | | 9.26 | 95.50 |
| | Jan-93 | | 7.81 | 96.95 |
| | Feb-93 | | 7.32 | 97.44 |
| | Mar-93 | | 7.20 | 97.56 |
| | Apr-93 | | 7.31 | 97.45 |
| | May-93 | | 8.29 | 96.47 |
| | Jul-93 | | 8.30 | 96.46 |
| | Oct-93 | | 9.38 | 95.38 |
| | Jan-94 | | 8.80 | 95.96 |
| | Apr-94 | | 8.15 | 96.61 |
| | Jul-94 | | 8.70 | 96.06 |
| | Oct-94 | | 9.37 | 95.39 |
| | Jan-94 | | 7.18 | 97.58 |
| | Apr-95 | | 6.76 | 98.00 |
| | Jan-97 | | 7.03 | 97.73 |
| | Nov-98 | | 8.10 | 96.66 |
| | Jan-01 | | 7.70 | 97.06 |
| | Jun-02 | | 7.30 | 97.46 |
| | Nov-02 | | 8.14 | 96.62 |
| | Feb-03 | | 6.87 | 97.89 |
| | Jun-03 | | 7.05 | 97.71 |
| | Apr-08 | 25.42 | 7.13 | 18.29 |
| | Jun-11 | | 7.54 | 17.88 |
| | **Dec-11** | | **8.02** | **17.40** |
| | **Jan-12** | | **8.08** | **17.34** |
| MW-2 | Jul-89 | 104.86 | 9.24 | 95.62 |
| (5 - 20 feet bgs) | Apr-91 | | 8.01 | 96.85 |
| | Jul-92 | | 9.03 | 95.83 |
| | Aug-92 | | 9.34 | 95.52 |
| | Sep-92 | | 9.46 | 95.40 |
| | Oct-92 | | 9.52 | 95.34 |
| | Nov-92 | | 9.42 | 95.44 |
| | Dec-92 | | 9.47 | 95.39 |
| | Jan-93 | | 8.25 | 96.61 |
| | Feb-93 | | 7.85 | 97.01 |
| | Mar-93 | | 7.77 | 97.09 |
| | Apr-93 | | 7.86 | 97.00 |
| | May-93 | | 8.20 | 96.66 |
| | Jul-93 | | 8.72 | 96.14 |
| | Oct-93 | | 9.64 | 95.22 |
| | Jan-94 | | 9.12 | 95.74 |
| | Apr-94 | | 8.56 | 96.30 |
| | Jul-94 | | 9.02 | 95.84 |

**Table 8**
**Groundwater Elevation Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Well ID (Screen Interval) | Date Collected | Well Elevation (ft amsl) | Depth to Water (feet) | Groundwater Elevation (ft amsl) |
|---|---|---|---|---|
| | Oct-94 | | 9.59 | 95.27 |
| | Jan-94 | | 7.71 | 97.15 |
| | Apr-95 | | 7.40 | 97.46 |
| | Jan-97 | | 7.55 | 97.31 |
| | Nov-98 | | 8.49 | 96.37 |
| | Jan-01 | | 8.08 | 96.78 |
| | Jun-02 | | 7.77 | 97.09 |
| | Nov-02 | | 8.50 | 96.36 |
| | Feb-03 | | 7.38 | 97.48 |
| | Jun-03 | | 7.57 | 97.29 |
| | Apr-08 | 25.52 | 7.67 | 17.85 |
| | Jun-11 | | 7.35 | 18.17 |
| | **Dec-11** | | **8.41** | **17.11** |
| | **Jan-12** | | **8.43** | **17.09** |
| MW-3 | Jul-89 | 104.52 | 9.00 | 95.52 |
| (5 - 20 feet bgs) | Apr-91 | | 8.06 | 96.46 |
| | Jul-92 | | 8.82 | 95.70 |
| | Aug-92 | | 9.05 | 95.47 |
| | Sep-92 | | 9.09 | 95.43 |
| | Oct-92 | | 9.15 | 95.37 |
| | Nov-92 | | 9.05 | 95.47 |
| | Dec-92 | | 9.12 | 95.40 |
| | Jan-93 | | 8.18 | 96.34 |
| | Feb-93 | | 7.98 | 96.54 |
| | Mar-93 | | 7.94 | 96.58 |
| | Apr-93 | | 8.02 | 96.50 |
| | May-93 | | 7.69 | 96.83 |
| | Jul-93 | | 8.65 | 95.87 |
| | Oct-93 | | 9.32 | NC |
| | Jan-94 | | 8.93 | NC |
| | Apr-94 | | 8.52 | 96.00 |
| | Jul-94 | | 8.86 | 95.66 |
| | Oct-94 | | 9.25 | 95.27 |
| | Jan-94 | | 7.85 | 96.67 |
| | Apr-95 | | 7.64 | 96.88 |
| | Jan-97 | | 7.75 | 96.77 |
| | Nov-98 | | 8.38 | 96.14 |
| | Jan-01 | | 8.00 | 96.52 |
| | Jun-02 | | 7.81 | 96.71 |
| | Nov-02 | | 8.37 | 96.15 |
| | Feb-03 | | 7.48 | 97.04 |
| | Jun-03 | | 7.67 | 96.85 |
| | Apr-08 | 25.17 | 7.74 | 17.43 |
| | Jun-11 | | 7.50 | 17.67 |
| | **Dec-11** | | **8.25** | **16.92** |
| | **Jan-12** | | **8.25** | **16.92** |
| MW-4 | Apr-94 | 104.86 | 9.29 | 95.57 |
| (8 - 23 feet bgs) | Jul-94 | | 9.55 | 95.31 |
| | Oct-94 | | 9.83 | 95.03 |

**Table 8**
**Groundwater Elevation Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Well ID (Screen Interval) | Date Collected | Well Elevation (ft amsl) | Depth to Water (feet) | Groundwater Elevation (ft amsl) |
|---|---|---|---|---|
| | Jan-94 | | 8.88 | 95.98 |
| | Apr-95 | | 8.80 | 96.06 |
| | Jan-97 | | - | - |
| | Nov-98 | | - | - |
| | Jan-01 | | - | - |
| | Jun-02 | | - | - |
| | Nov-02 | | - | - |
| | Feb-03 | | - | - |
| | Jun-03 | | - | - |
| | Apr-08 | 25.53 | 8.73 | 16.80 |
| | Jun-11 | | 8.52 | 17.01 |
| | **Dec-11** | | - | - |
| | **Jan-12** | | - | - |
| MW-5 | Apr-94 | 103.62 | 8.27 | 95.35 |
| (7 - 22 feet bgs) | Jul-94 | | 8.50 | 95.12 |
| | Oct-94 | | 8.92 | 94.70 |
| | Jan-94 | | 7.61 | 96.01 |
| | Apr-95 | | 8.48 | 95.14 |
| | Jan-97 | | 6.79 | 96.83 |
| | Nov-98 | | 8.12 | 95.50 |
| | Jan-01 | | 7.67 | 95.95 |
| | Jun-02 | | 7.61 | 96.01 |
| | Nov-02 | | 8.01 | 95.61 |
| | Feb-03 | | 7.22 | 96.40 |
| | Jun-03 | | 7.43 | 96.19 |
| | Apr-08 | 24.31 | 7.36 | 16.95 |
| | Jun-11 | | 7.43 | 16.88 |
| | **Dec-11** | | - | - |
| | **Jan-12** | | - | - |
| DPE-1 | **Dec-11** | - | **8.81** | - |
| (7 - 15 feet bgs) | **Jan-12** | | **8.78** | - |
| DPE-2 | **Dec-11** | - | **9.29** | - |
| (7 - 15 feet bgs) | **Jan-12** | | **7.97** | - |
| DPE-3 | **Dec-11** | - | **7.92** | - |
| (7 - 14 feet bgs) | **Jan-12** | | **8.98** | - |
| DPE-4 | **Jan-12** | - | **9.11** | |
| (8 - 17) | | | | |
| DPE-5 | **Jan-12** | - | - | |
| (8 - 18) | | | | |
| DPE-6 | **Jan-12** | - | | |
| (8 - 18) | | | **8.58** | |
| DPE-8 | **Jan-12** | - | - | |
| (8 - 18) | | | | |

**Table 8**
**Groundwater Elevation Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Well ID (Screen Interval) | Date Collected | Well Elevation (ft amsl) | Depth to Water (feet) | Groundwater Elevation (ft amsl) |
|---|---|---|---|---|
| DPE-9 (8 - 18) | **Jan-12** | - | **8.12** | |
| DPE-10 (8 - 17) | **Jan-12** | - | **-** | |

ft amsl = feet above mean sea level
All water level depths are measured from the top of casing
"-" = not measured
bgs = below ground surface

**Table 9**
**Groundwater Monitoring Analytical Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date | TPH-g | | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | MTBE | TAME | TBA | EDB | 1,2-DCA | DIPE | Ethanol | ETBE | Methanol | Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | EPA Methods 8020, 8021B, or 8260B | | | | | EPA Method 8260B | | | | | | | | | |
| | | (µg/L) | | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) |
| MW-1 | 1/21/1987 | 21,020 | | 1,148 | 8,627 | 1,792 | 6,012 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/11/1989 | 1,400 | | 74 | 10 | 13 | 5 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/12/1989 | 1,200 | | 470 | 49 | 45 | 33 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/9/1991 | 850 | | 260 | 10 | 15 | 12 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/14/1992 | 13,000 | | 2,300 | 1,200 | 1,200 | 1,200 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/7/1992 | 3,600 | | 1,600 | 80 | 120 | 120 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/11/1993 | 1,200 | | 410 | 16 | 23 | 19 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/23/1993 | 2,200 | a | 720 | 180 | 82 | 150 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/8/1993 | 3,200 | a | 1,200 | 110 | 97 | 100 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/15/1993 | 3,700 | a | 1,400 | 43 | 94 | 36 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/25/1994 | 1,600 | a | 680 | 16 | 41 | 35 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/28/1994 | 6,100 | a | 1,900 | 380 | 250 | 340 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/27/1994 | 6,000 | a | 1,800 | 510 | 220 | 450 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/27/1994 | 3,000 | a | 1,100 | 79 | 82 | 87 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/26/1995 | 1,600 | a | 660 | 100 | 82 | 87 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/13/1995 | 3,800 | a | 1,200 | 270 | 120 | 260 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/21/1995 | 5,200 | a | 1,500 | 450 | 190 | 400 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/25/1995 | 5,900 | a | 1,800 | 450 | 210 | 400 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/21/1997 | 3,100 | a | 1,100 | 87 | 160 | 180 | <7.3 | - | - | - | - | - | - | - | - | - | - |
| | 11/12/1998 | 1,000 | a | 280 | 3 | 3.3 | 7.9 | <30 | - | - | - | - | - | - | - | - | - | - |
| | 1/16/2001 | 4,700 | a | 1,20 | 18 | 150 | 49 | - | <5 | <5.0 | <25 | <5.0 | <5.0 | <5.0 | - | <5.0 | - | - |
| | 6/27/2002 | 5,900 | a | 230 | 7.7 | <5 | 1,500 | - | <5 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | - | <5.0 | - | - |
| | 11/18/2002 | 3,100 | a | 890 | 12 | 310 | 28 | - | <2.5 | - | - | <2.5 | <2.5 | - | - | - | - | - |
| | 2/20/2003 | 260 | d | 100 | 0.72 | <0.5 | <0.5 | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | - |
| | 6/11/2003 | 3,100 | a | 480 | 6.7 | 220 | 420 | - | <2.5 | - | - | <2.5 | <2.5 | - | - | - | - | - |
| | 4/3/2008 | 2,700 | a | 280 | 21 | 130 | 230 | <25 | <1.0 | <1.0 | <4.0 | <1.0 | <1.0 | <1.0 | <100 | <1.0 | <1,000 | <0.5 |
| | 6/23/2011 | 610 | a | 100 | 6.2 | 46 | 77 | - | <2.5 | <2.5 | <10 | - | - | <2.5 | - | <2.5 | - | - |
| | **12/6/2011** | **900** | **a** | **160** | **<5.0** | **68** | **76** | **-** | **<5.0** | **<5.0** | **<20** | **-** | **-** | **<5.0** | **-** | **<5.0** | **-** | **-** |
| | **1/24/2012** | **190** | **a** | **25** | **<1.0** | **1.4** | **4.6** | **<1.0** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| MW-2 | 1/21/1987 | 5,018 | | 386 | 1,981 | 285 | 1,432 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/11/1989 | 10,000 | | 3,000 | 410 | 240 | 190 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/12/1989 | 7,600 | | 2,700 | 540 | 250 | 320 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/9/1991 | 4,900 | | 910 | 210 | 130 | 200 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/14/1992 | 13,000 | | 4,400 | 1,500 | 610 | 1,100 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/7/1992 | 11,000 | | 5,200 | 1,500 | 500 | 1,200 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/11/1993 | 17,000 | | 940 | 1,100 | 480 | 930 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/23/1993 | 52,000 | a | 13,000 | 8,400 | 1,700 | 5,300 | - | - | - | - | - | - | - | - | - | - | - |

**Table 9**
**Groundwater Monitoring Analytical Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date | TPH-g | | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | MTBE | TAME | TBA | EDB | 1,2-DCA | DIPE | Ethanol | ETBE | Methanol | Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | EPA Methods 8020, 8021B, or 8260B | | | | | EPA Method 8260B | | | | | | | | | |
| | | (µg/L) | | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) |
| | 7/8/1993 | 6,400 | a | 2,500 | 470 | 280 | 530 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/15/1993 | 17,000 | a | 3,900 | 870 | 500 | 940 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/25/1994 | 16,000 | a | 5,400 | 1,140 | 640 | 1,500 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/28/1994 | 15,000 | a | 4,00 | 910 | 480 | 1,200 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/27/1994 | 18,000 | a | 6,000 | 760 | 630 | 1,600 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/27/1994 | 9,500 | a | 2,700 | 230 | 320 | 640 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/26/1995 | 5,900 | a | 1,900 | 290 | 230 | 500 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/13/1995 | 10,000 | a | 3,300 | 620 | 360 | 930 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/21/1995 | 9,900 | a | 3,300 | 320 | 390 | 830 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/25/1995 | 13,000 | a | 4,900 | 400 | 580 | 990 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/21/1997 | 7,600 | a | 2,600 | 310 | 330 | 660 | <20 | - | - | - | - | - | - | - | - | - | - |
| | 11/12/1998 | 31,000 | a | 11,000 | 750 | 1,500 | 2,300 | <900 | - | - | - | - | - | - | - | - | - | - |
| | 1/16/2001 | 23,000 | a | 8,200 | 260 | 1,000 | 820 | <30 | - | <30 | <150 | <30 | <30 | <30 | - | <30 | - | - |
| | 6/27/2002 | 39,000 | a | 7,000 | 1,800 | 690 | 4,000 | - | <5 | <5.0 | <5.0 | <5.0 | 6.1 | <5.0 | - | <5.0 | - | - |
| | 11/18/2002 | 15,000 | a | 5,700 | 76 | 1,000 | 150 | - | <12 | - | - | <12 | <12 | - | - | - | - | - |
| | 2/20/2003 | 26,000 | a | 6,300 | 1,100 | 1,300 | 1,900 | - | <5.0 | - | - | <5.0 | <5.0 | - | - | - | - | - |
| | 6/11/2003 | 37,000 | a | 7,100 | 2,300 | 2,000 | 3,600 | - | <25 | - | - | <25 | <25 | - | - | - | - | - |
| | 4/3/2008 | 4,100 | a | 760 | 96 | 250 | 130 | <50 | <2.5 | <2.5 | <10 | <2.5 | <2.5 | <2.5 | <250 | <2.5 | <2,500 | <0.5 |
| | 6/23/2011 | 6,500 | a | 2,100 | 210.0 | 560 | 310 | - | <50 | <50 | <200 | - | - | <50 | - | <50 | - | - |
| | **12/6/2011** | **4,800** | **a** | **1,600** | **<50** | **260** | **<50** | **-** | **<50** | **<50** | **<200** | **-** | **-** | **<50** | **-** | **<50** | **-** | **-** |
| | **1/24/2012** | **2,500** | **a** | **100** | **22** | **<5.0** | **410** | **<5.0** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| MW-3 | 1/21/1987 | 10,287 | | 1,428 | 3,281 | 610 | 2,761 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/11/1989 | 5,300 | | 1,800 | 340 | 150 | 160 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/12/1989 | 7,800 | | 3,100 | 900 | 300 | 480 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/9/1991 | 9,400 | | 1,400 | 730 | 200 | 510 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/14/1992 | 17,000 | | 3,500 | 390 | 390 | 260 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/7/1992 | 9,200 | | 4,300 | 470 | 390 | 610 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/11/1993 | 2,000 | | 740 | 29 | 58 | 28 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/23/1993 | 6,500 | a | 2,600 | 280 | 260 | 190 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/8/1993 | 5,200 | a | 2,100 | 260 | 250 | 180 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/15/1993 | 11,000 | a | 3,500 | 580 | 430 | 370 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/25/1994 | 6,200 | a | 2,500 | 270 | 160 | 28 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/28/1994 | 5,300 | a | 1,700 | 190 | 210 | 180 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/27/1994 | 5,900 | a | 2,000 | 360 | 260 | 330 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/27/1994 | 8,000 | a | 2,200 | 580 | 260 | 170 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/26/1995 | 3,700 | a | 1,200 | 150 | 150 | 190 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/13/1995 | 4,000 | a | 1,400 | 200 | 180 | 210 | - | - | - | - | - | - | - | - | - | - | - |

**Table 9**
**Groundwater Monitoring Analytical Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date | TPH-g | | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | MTBE | TAME | TBA | EDB | 1,2-DCA | DIPE | Ethanol | ETBE | Methanol | Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | EPA Methods 8020, 8021B, or 8260B | | | | | EPA Method 8260B | | | | | | | | | |
| | | (µg/L) | | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) |
| | 7/21/1995 | 5,700 | a | 2,000 | 280 | 270 | 280 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/25/1995 | 11,000 | a | 3,500 | 1,100 | 460 | 680 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/21/1997 | 2,200 | a | 860 | 63 | 71 | 80 | <5 | - | - | - | - | - | - | - | - | - | - |
| | 11/12/1998 | 180 | d | 44 | 0.51 | <0.5 | 0.92 | <20 | - | - | - | - | - | - | - | - | - | - |
| | 1/16/2001 | 64 | a | 11 | 0.77 | <0.5 | <0.5 | - | <5 | <1.0 | <5.0 | <1.0 | 1.4 | <1.0 | - | <1.0 | - | - |
| | 6/27/2002 | <50 | | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 | <0.5 | - | <0.5 | - | - |
| | 11/18/2002 | 110 | a | 21 | 1 | <0.5 | <0.5 | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | - |
| | 2/20/2003 | <50 | | 2.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | - |
| | 6/11/2003 | <50 | | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | - |
| | 4/3/2008 | 7,600 | a | 2,400 | 58 | 250 | 170 | <100 | <5.0 | <5.0 | <20 | <5.0 | <5.0 | <5.0 | <500 | <5.0 | <5,000 | <0.5 |
| | 6/23/2011 | 1,300 | a | 560 | 21 | 86 | 150 | - | <12 | <12 | <50 | - | - | <12 | - | <12 | - | - |
| | **12/6/2011** | **1,800** | **a** | **620** | **28** | **22** | **46** | **-** | **<17** | **<17** | **<67** | **-** | **-** | **<17** | **-** | **<17** | **-** | **-** |
| | **1/24/2012** | **3,700** | **a** | **1,200** | **68** | **34** | **130** | **<25** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| MW-4 | 4/28/1994 | 190 | b,c | 3.8 | 2.9 | 2.1 | 3.1 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/27/1994 | 180 | a | 15 | 9.2 | 7.6 | 28 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/27/1994 | 130 | a | 8.6 | 6.6 | 4.5 | 17 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/26/1995 | 110 | | 6.5 | 1.2 | 1.8 | 11 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/13/1995 | 82 | | 3.9 | <0.5 | <0.5 | 2.5 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/21/1995 | 130 | | 8.8 | 1.3 | 4.5 | 7.6 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/25/1995 | 95 | | 6.6 | 1.7 | 4.3 | 7 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/21/1997 | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 11/12/1998 | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 1/16/2001 | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6/27/2002 | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 11/18/2002 | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 2/20/2003 | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 6/11/2003 | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 4/3/2008 | 130 | | 1.6 | <0.5 | 0.89 | 0.85 | <5.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | <0.5 | <50 | <0.5 | <500 | <0.5 |
| | 6/23/2011 | 53 | a | 2.7 | <0.5 | 1.0 | 1.7 | - | <0.5 | <0.5 | <2.0 | - | - | <0.5 | - | <0.5 | - | - |
| | **12/6/2011** | **-** | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **1/24/2012** | **-** | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| MW-5 | 4/28/1994 | 30,000 | a | 4,000 | 3,000 | 810 | 3,500 | - | - | - | - | - | - | - | - | - | - | - |
| | 7/27/1994 | 9,300 | a | 2,000 | 800 | 290 | 940 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/27/1994 | 15,000 | a | 2,700 | 1,300 | 420 | 1,100 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/26/1995 | 7,900 | a | 2,100 | 680 | 240 | 860 | - | - | - | - | - | - | - | - | - | - | - |
| | 4/13/1995 | 7,900 | a | 2,400 | 580 | 340 | 630 | - | - | - | - | - | - | - | - | - | - | - |

**Table 9**
**Groundwater Monitoring Analytical Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date | TPH-g (µg/L) | | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) | MTBE (µg/L) | TAME (µg/L) | TBA (µg/L) | EDB (µg/L) | 1,2-DCA (µg/L) | DIPE (µg/L) | Ethanol (µg/L) | ETBE (µg/L) | Methanol (µg/L) | Lead (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | EPA Methods 8020, 8021B, or 8260B | | | | | EPA Method 8260B | | | | | | | | | |
| | 7/21/1995 | 11,000 | a | 3,400 | 760 | 610 | 1,200 | - | - | - | - | - | - | - | - | - | - | - |
| | 10/25/1995 | 13,000 | a | 2,900 | 830 | 570 | 1,100 | - | - | - | - | - | - | - | - | - | - | - |
| | 1/21/1997 | 2,600 | a | 750 | 65 | 1,860 | 280 | <5 | - | - | - | - | - | - | - | - | - | - |
| | 11/12/1998 | <50 | | <0.5 | <0.5 | <0.5 | <0.5 | <5 | - | - | - | - | - | - | - | - | - | - |
| | 1/16/2001 | <50 | | 11 | <0.5 | <0.5 | 0.82 | - | <5 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | - | - |
| | 6/27/2002 | <50 | | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <5.0 | <0.5 | <0.5 | <0.5 | - | <0.5 | - | - |
| | 11/18/2002 | 130 | a | 17 | 3.8 | 2.1 | 16 | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | - |
| | 2/20/2003 | <50 | | 5.6 | 0.51 | <0.5 | 0.68 | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | - |
| | 6/11/2003 | 170 | a | 48 | <0.5 | <0.5 | 1.4 | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | - |
| | 4/3/2008 | 31,000 | a | 490 | 3,400 | 1,600 | 5,300 | <250 | <10 | <10 | <40 | <10 | <10 | <10 | <1,000 | <10 | <10,000 | <0.5 |
| | 6/23/2011 | 82 | a | 5.1 | <0.5 | 12.0 | 8.4 | - | <0.5 | <0.5 | <2.0 | - | - | <0.5 | - | <0.5 | - | - |
| | **12/6/2011** | **-** | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **1/24/2012** | **-** | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-1 | **12/6/2011** | **9,200** | **a** | **1,800** | **570** | **460** | **1,100** | **-** | **<50** | **<50** | **<200** | **-** | **-** | **<50** | **-** | **<50** | **-** | **-** |
| | **1/24/2012** | **3,200** | **a** | **170** | **58** | **<5.0** | **620** | **<5.0** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-2 | **12/6/2011** | **22,000** | **a** | **2,100** | **3,300** | **650** | **3,300** | **-** | **<100** | **<100** | **<400** | **-** | **-** | **<100** | **-** | **<100** | **-** | **-** |
| | **1/24/2012** | **1,100** | **a** | **44** | **26** | **11** | **150** | **<2.5** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-3 | **12/6/2011** | **6,400** | **a** | **550** | **560** | **180** | **1,000** | **-** | **<17** | **<17** | **<67** | **-** | **-** | **<17** | **-** | **<17** | **-** | **-** |
| | **1/24/2012** | **5,500** | **a** | **290** | **240** | **44** | **1,000** | **<5.0** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-4 | **1/24/2012** | **730** | **a** | **66** | **6.0** | **7.1** | **83** | **2.5** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-5 | **1/24/2012** | **-** | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-6 | **1/24/2012** | **64*** | **a** | **<0.5** | **<0.5** | **<0.5** | **3.2** | **<0.5** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-8 | **1/24/2012** | **-** | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-9 | **1/24/2012** | **4,400** | **a** | **160** | **390** | **93** | **1,100** | **<5.0** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| DPE-10 | **1/24/2012** | **-** | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

TPH-g= total petroleum hydrocarbons as gasoline
TPH-g= total petroleum hydrocarbons as diesel

**Table 9**
**Groundwater Monitoring Analytical Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date | TPH-g | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | MTBE | TAME | TBA | EDB | 1,2-DCA | DIPE | Ethanol | ETBE | Methanol | Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EPA Methods 8020, 8021B, or 8260B | | | | | | EPA Method 8260B | | | | | | | | | |
| | | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) |

TPH-motor oil = total petroleum hydrocarbons as motor oil
MTBE = Methyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
TBA = Tertiary butyl alcohol
EDB = 1,2-Dibromoethane
1,2-DCA = 1,2-Dichloroethane
DIPE = Diisopropyl ether
ETBE = Ethyl tertiary butyl ether

µg/L = micrograms per liter

a = Laboratory note indicates the unmodified or weakly modified gasoline is significant.
b = Laboratory note indicates heavier gasoline range compounds are significant (aged gas?).
c = Laboratory note indicates gasoline range compounds are significant with no recognizable pattern.
d = Laboratory note indicates that lighter gasoline range coounds (the most mobile fraction) are significant.
e = Laboratory note indicates that one to a few isloated non-targed peaks are present.

* TPH-d = <50, TPH-motor oil = 250

**Table 10**
**Hydrocarbon Mass Calculation (TPH-g)**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| MASS IN SOIL | | | | |
|---|---|---|---|---|
| | Area | | | |
| **Parameter** | **1** | **2** | **3** | **Source** |
| **Area (feet$^2$)** | 3,733 | 707 | 6,316 | Figure 7 |
| **Height (feet)** | 8 | 8 | 8 | Approximate thickness of impacted zone |
| **Volume (feet$^3$)** | 29,864 | 5,656 | 50,528 | Calculated as the Area * Height |
| **Volume (m$^3$)** | 845 | 160 | 1,430 | |
| **Soil Density (kg/m$^3$)** | 1,800 | 1,800 | 1,800 | Average density for silty sand (Lindeburg 1992). |
| **Soil Weight (kg)** | 1,521,810 | 288,218 | 2,574,806 | Calculated as the Volume * Soil Density |
| **Estimated Average Conc. (mg/kg)** | 2,674 | 1,600 | 280 | Average of concentrations shown in Figure 7 |
| **Mass (mg)** | 4,069,982,244 | 461,149,517 | 722,049,119 | Calculated as the Soil Weight * Conc. |
| **Mass (pounds)** | 8,974 | 1,017 | 1,592 | |
| **Total Mass (pounds)** | 11,583 | | | |

| MASS IN GROUNDWATER | | |
|---|---|---|
| **Parameter** | **Area 4** | **Source** |
| **Area (feet$^2$)** | 7,115 | Figure 8 |
| **Height (feet)** | 8 | Approximate thickness of impacted zone |
| **Volume (feet$^3$)** | 56,920 | Calculated as the Area * Height |
| **Porosity** | 0.40 | Assumed value |
| **Pore Space (feet$^3$)** | 22,768 | Calculated as the Volume * Porosity |
| **Gallons per feet$^3$ (gallons/feet$^3$)** | 7.48 | |
| **Estimated Average Conc. (ug/L)** | 8,550 | Average of concentrations shown in Figure 7 |
| **Grams per ug** | 0.000001 | |
| **Liters / Gallon** | 3.7854 | |
| **Pounds / Gram** | 0.0022 | |
| **Mass (pounds)** | 12.13 | |

Area 1 = The area of concentrations defined by the southern 1,000 mg/kg contour line (Figure 7).
Area 2 = The area of concentrations defined by the northern 1,000 mg/kg contour line (Figure 7).
Area 3 = The area of concentrations defined by the 100 mg/kg contour line (Figure 7).
Area 4 = The area of the concentrations defined by the 1,000 ug/L contour line (Figure 8).

TPH-g = Total petroleum hydrocarbons as gasoline
Conc. = Concentration
mg/kg= milligrams per kilogram
ug/L = micrograms per liter

Reference:
Michael R. Lindeburg, Civil Engineering Reference Manual, Sixth Edition, P.E. 1992

**Table 11**
**Well Search Table**
**AEI Project No. 298931, 1600 - 1630 Park Street, Alameda, California**

| Well Designation | Township / Range | Section, Parcel and Number | Direction | Distance (feet) | Address | Total Depth (feet) | Drill Date |
|---|---|---|---|---|---|---|---|
| L1 | 2S/3W | 7L1 | Northeast | 1,350 | 1915 EVERETT ST | 90 | Unknown |
| P1 | 2S/3W | 7P1 | East | 1,750 | 2623 EAGLE AVE | 120 | 6/76 |
| Q80 | 2S/3W | 7Q80 | East | 1,900 | 1823 PEARL ST | 11 | 10/96 |
| D2 | 2S/3W | 18D2 | South | 1,400 | EVERETT & ALAMEDA | 120 | 7/76 |
| R1 | 2S/4W | 12R1 | Southwest | 1,400 | CENTRAL & OAK ST | 325 | Unknown |
| M1 | 2S/3W | 7M1 | North | 1,200 | 2307 CLEMENT AVE | 72 | 4/77 |
| M2 | 2S/3W | 7M2 | North | 1,200 | 2307 CLEMENT AVE | 82 | 4/77 |
| L2 | 2S/3W | 7L2 | East | 1,100 | 1819 EVERETT ST | Unknown | /06 |
| N1 | 2S/3W | 7N1 | West | 1,000 | 2235 LINCOLN AVE | 206 | /16 |
| J1 | 2S/4W | 12J1 | West | 1,950 | 2138 PACIFIC AVE | 29 | 8/77 |

**Table 12**
**Summary of Select HVDPE Event Data**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| | Extraction Well(s) | Date | Duration (Days) | Extraction Casing Vacuum (in. of Hg) | System Vacuum (in. of Hg) | System Flow Rate (cfm) | Influent Conc. (ppmv) | Water Totalizer Readings (gallons) | Calculated Flowrate (gpm) | Observation Wells | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | DPE-1 Induced Vacuum (in. $H_2O$) | Depth to Water (feet TOC) | DPE-2 Induced Vacuum (in. $H_2O$) | Depth to Water (feet TOC) | DPE-3 Induced Vacuum (in. $H_2O$) | Depth to Water (feet TOC) | MW-1 Induced Vacuum (in. $H_2O$) | Depth to Water (feet TOC) | MW-2 Induced Vacuum (in. $H_2O$) | Depth to Water (feet TOC) | MW-3 Induced Vacuum (in. $H_2O$) | Depth to Water (feet TOC) | VP-1 Induced Vacuum (in. $H_2O$) | VP-2 Induced Vacuum (in. $H_2O$) | VP-3 Induced Vacuum (in. $H_2O$) |
| Baseline | -- | 12/5/11 | -- | -- | -- | -- | -- | 12380 | -- | -- | 8.61 | -- | 8.75 | -- | 7.73 | -- | 8.27 | -- | 8.48 | -- | 8.34 | -- | -- | -- |
| Start | DPE-1 | 12/6/11 8:00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | DPE-1 | 12/6/11 11:40 | -- | -- | -- | -- | -- | 12410 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Stop | DPE-1 | 12/7/11 8:00 | 1.0 | 10 | 25 | 37 | 6410 | 13140 | 0.60 | -- | -- | 0.73 | 9.61 | 0.39 | 8.42 | 0.22 | 9.19 | 0.60 | 9.41 | 0.03 | 8.77 | 0.44 | 0.78 | 0.22 |
| Start | DPE-3 | 12/7/11 9:00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | DPE-3 | 12/7/11 20:00 | -- | -- | -- | -- | -- | 13450 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Stop | DPE-3 | 12/8/11 8:00 | 1.0 | 8 | 25 | 30 | 9240 | 13760 | 0.43 | 0.48 | 11.04 | 1.55 | 12.28 | -- | -- | 0.10 | 9.97 | 0.15 | 9.94 | 0.00 | 9.29 | 0.00 | 0.01 | 0.07 |
| Start | DPE-2 | 12/8/11 8:30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | DPE-2 | 12/8/11 20:00 | -- | -- | -- | -- | -- | 14020 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Stop | DPE-2 | 12/9/11 8:00 | 1.0 | 8 | 23 | 46 | 2670 | 14190 | 0.24 | 0.30 | 11.10 | -- | -- | 0.00 | 11.00 | 0.10 | 10.07 | 0.05 | 10.01 | 0.00 | 9.39 | 0.00 | 0.01 | 0.04 |
| Start | DPE-1 to DPE-3 | 12/9/11 9:00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | DPE-1 to DPE-3 | 12/9/11 20:00 | -- | -- | -- | -- | -- | 14910 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Stop | DPE-1 to DPE-3 | 12/30/11 4:00 | 20.8 | 7 / 5 / 0 | 15 | 177 | 876 | 42310 | 0.94 | -- | -- | -- | -- | -- | -- | 0.35 | -- | 0.35 | -- | 0.00 | -- | 0.50 | 0.40 | 0.35 |
| | DPE-1 to DPE-3 | 12/30/11 9:30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.49 | -- | 9.52 | -- | 9.21 | -- | -- | -- |
| Start | MW-2 | 12/30/11 12:15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | MW-2 | 12/30/11 20:00 | -- | -- | -- | -- | -- | 43370 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | MW-2 | 12/31/11 8:00 | -- | -- | -- | -- | -- | 43630 | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Stop | MW-2 | 12/31/11 12:00 | 1.0 | -- | 25 | 36 | 653 | -- | -- | 0.75 | -- | 0.07 | -- | 0.05 | -- | 0.15 | -- | -- | -- | 0.05 | -- | 0.60 | 0.50 | 0.20 |

Notes:

| | |
|---|---|
| in. of Hg | Inches of mercury vacuum |
| in. $H_2O$ | Inches of water vacuum |
| cfm | Cubic feet per minute |
| ppmv | Parts per million by volume |
| feet TOC | Feet below the top of casing |
| gpm | Gallons per minute |

**Table 13**
**Vapor Radius of Influence**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Extraction Well DPE-1 | | | Extraction Well DPE-2 | | | Extraction Well DPE-3 | | | Extraction Well MW-2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Observation Well | Distance (X) (feet) | Induced Vacuum (Y) (in. $H_2O$) | Observation Well | Distance (X) (feet) | Induced Vacuum (Y) (in. $H_2O$) | Observation Well | Distance (X) (feet) | Induced Vacuum (Y) (in. $H_2O$) | Observation Well | Distance (X) (feet) | Induced Vacuum (Y) (in. $H_2O$) |
| VP-1 | 15 | 0.44 | VP-1 | 30 | 0.00 | VP-1 | 34 | 0.00 | VP-1 | 16 | 0.60 |
| VP-2 | 10 | 0.78 | VP-2 | 25 | 0.01 | VP-2 | 29 | 0.01 | VP-2 | 13 | 0.50 |
| VP-3 | 20 | 0.22 | VP-3 | 26 | 0.04 | VP-3 | 16 | 0.07 | VP-3 | 23 | 0.20 |
| ROI | 23 | 0.10 | ROI | 13 | 0.10 | ROI | 12 | 0.10 | ROI | 30 | 0.10 |
| DPE-2 | 19 | 0.73 | DPE-1 | 19 | 0.30 | DPE-1 | 19 | 0.48 | DPE-1 | 13 | -- |
| DPE-3 | 19 | 0.39 | DPE-3 | 12 | 0.00 | DPE-2 | 12 | 1.55 | DPE-2 | 32 | -- |
| MW-1 | 27 | 0.22 | MW-1 | 33 | 0.10 | MW-1 | 22 | 0.10 | DPE-3 | 30 | -- |
| MW-2 | 13 | 0.60 | MW-2 | 32 | 0.05 | MW-2 | 30 | 0.15 | MW-1 | 27 | -- |
| MW-3 | 36 | 0.03 | MW-3 | 47 | 0.00 | MW-3 | 54 | 0.00 | MW-3 | 36 | -- |
| ROI | 35 | 0.10 | ROI | 21 | 0.10 | ROI | 35 | 0.10 | ROI | N/C | -- |

| | |
|---|---|
| Average ROI using VP-1 through VP-3 (feet) | 19 |
| Average ROI using all other wells (feet) | 30 |

Notes:
ROI calculated as X on a semi-log linear regression trendline for a given value of Y. The trendline has the formula:
$Y = C*Ln(X) + B$, or $X = e^{(Y - B)/C}$

in. $H_2O$ Inches of water vacuum

N/C Not calculated

**Table 14**
**Pore Exchange Volume Calculation**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Parameter | Well DPE-1 | DPE-2 | DPE-3 | Source |
|---|---|---|---|---|
| **Effective Porosity (unitless)** | 0.3 | 0.3 | 0.3 | Assumed value |
| **ROI (feet)** | 35 | 21 | 35 | Table 13 |
| **Thickness (feet)** | 8 | 8 | 8 | One half of the thickness of the contaminated zone |
| **Volume (feet$^3$)** | 30,788 | 11,084 | 30,788 | Calculated as pi*ROI(feet)$^2$*Thickness (feet) |
| **System Flow Rate (feet$^3$ per minute)** | 37 | 46 | 30 | Table 12 |
| **Pore Volume Exchange (minutes)** | 249.63 | 72.28 | 307.88 | (Calculated as Effective Porosity * Volume ) / System Flow Rate |
| **Pore Volume Exchange (hours)** | 4.16 | 1.20 | 5.13 | 1 hour = 60 minutes |
| **Pore Volume Exchange (days)** | 0.17 | 0.05 | 0.21 | 1 day = 24 hours |
| **Pore Volumes Exchanged per day** | 5.77 | 19.92 | 4.68 | 1 / Pore Volume Exchange (days) |
| **Average Pore Volumes Exchanged per day** | | 10.12 | | |

cfm = Cubic feet per minute
ROI = Radius of influence

Reference:
EPA (United States Environmental Protection Agency). 2004. How to Evaluate Alternative Cleanup Teclmologies for Underground Storage Tank Sites, A Guide for Corrective Action Plan Reviewers. May 2004.

**Table 15**
**Groundwater Radius of Influence**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Observation Well | Initial Depth to Water | | Final Depth to Water | | Drawdown (feet) | Nearest Ext. Well | Distance to Nearest Ext. Well (feet) |
|---|---|---|---|---|---|---|---|
| | Date | (feet) | Date | (feet) | | | |
| MW-1 | 12/5/2011 | 8.27 | 12/30/2011 | 9.49 | 1.22 | DPE-3 | 22 |
| MW-2 | 12/5/2011 | 8.48 | 12/30/2011 | 9.52 | 1.04 | DPE-1 | 13 |
| MW-3 | 12/5/2011 | 8.34 | 12/30/2011 | 9.21 | 0.87 | DPE-1 | 36 |

Note:
Initial depth to water measurements were collected at the beginning of the event.
The final depth to wate measurements were collected after the operation of wells DPE-1 through DPE-3.

**Table 16**
**Hydrocarbon Mass Removal in Groundwater**
**AEI Project No. 298931, 1630 Park Street, Alameda, California**

| Sample ID | Date | TPH-g | Benzene | Toluene | Ethylbenzene | Xylenes |
|---|---|---|---|---|---|---|
| | | EPA Methods 8020, 8021B, or 8260B | | | | |
| | | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) |
| MW-2 | 12/6/2011 | 4,800 | 1,600 | <50 | 260 | <50 |
| | 1/24/2012 | 2,500 | 100 | 22 | <5.0 | 410 |
| DPE-1 | 12/6/2011 | 9,200 | 1,800 | 570 | 460 | 1,100 |
| | 1/24/2012 | 3,200 | 170 | 58 | <5.0 | 620 |
| DPE-2 | 12/6/2011 | 22,000 | 2,100 | 3,300 | 650 | 3,300 |
| | 1/24/2012 | 1,100 | 44 | 26 | 11 | 150 |
| DPE-3 | 12/6/2011 | 6,400 | 550 | 560 | 180 | 1,000 |
| | 1/24/2012 | 5,500 | 290 | 240 | 44 | 1,000 |
| Average | | 6,838 | 832 | 682 | 268 | 1,083 |

| Sample ID | Date | TPH-g | Benzene | Toluene | Ethylbenzene | Xylenes |
|---|---|---|---|---|---|---|
| | | EPA Methods 8020, 8021B, or 8260B | | | | |
| | | (pounds) | (pounds) | (pounds) | (pounds) | (pounds) |
| Average | -- | 2.48 | 0.30 | 0.25 | 0.10 | 0.39 |

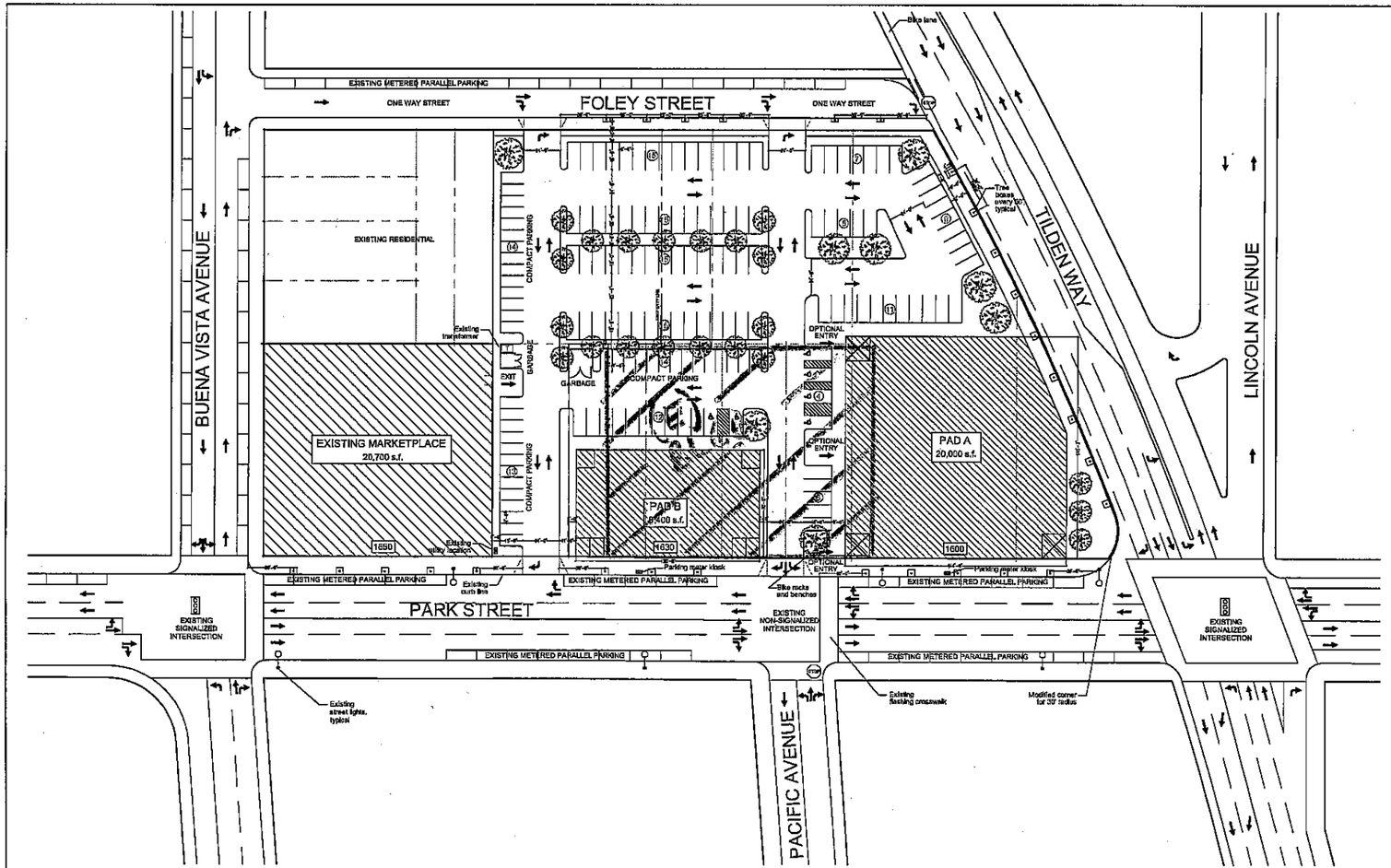
Total Gallons Removed = 43,530

Estimated Mass Removed (pounds) = Average influent concentration (µg/L) * flow (gallons)*1lb/454 g * 1/1,000,000 * 3.785 L/gallon

TPH-g= total petroleum hydrocarbons as gasoline
µg/L = micrograms per liter

# APPENDIX A

# PLANNED DEVELOPMENT LAYOUT

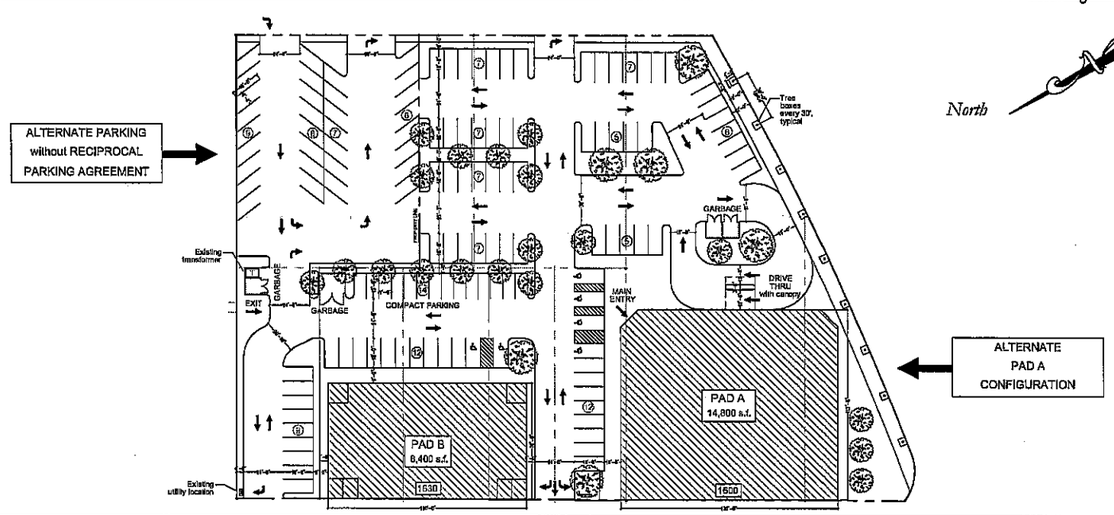



1 Site Plan
Scale: 1" = 40'

0' 10' 20' 40' 80'

Reference North

North




2 Alternates to Site Plan
Scale: 1" = 40'

## PROJECT INFORMATION

*Proposed Building Site (Pad A & Pad B):*

*Site Area = 77,400 s.f.*
*Landscaped Area = 6,618 s.f. (8.5%)*

*Total Proposed Building Area (Pad A & B) = 28,400 s.f.*
*Parking Spaces Provided = 99 (3.5 per 1000 s.f.)*

*Existing Marketplace Site:*

*Existing Building Area = 20,700 s.f.*
*Parking Spaces Provided = 55 (2.6 per 1000 s.f.)*

*Totals for both sites:*
*Total Proposed Building Square Footage = 49,100 s.f.*
*Total Parking Provided = 154 (3.1 per 1000 s.f.)*
*Total Handicapped Spaces Provided = 6*

## PROJECT INFORMATION for ALTERNATE CONFIGURATIONS

*Proposed Building Site (Pad A & Pad B):*

*Site Area = 77,400 s.f.*
*Landscaped Area = 7,048 s.f. (9.1%)*

*Total Proposed Building Area (Pad A & B) = 23,200 s.f.*
*Parking Spaces Provided = 91 (4 per 1000 s.f.)*

*Existing Marketplace Site:*

*Existing Building Area = 20,700 s.f.*
*Parking Spaces Provided = 41 (2 per 1000 s.f.)*

*Totals for both sites:*
*Total Proposed Building Square Footage = 43,900 s.f.*
*Total Parking Provided = 132 (3 per 1000 s.f.)*
*Total Handicapped Spaces Provided = 6*


JOHN MALICK & ASSOCIATES

Architecture · Planning

1195 Park Ave., Suite 102
Emeryville, California 94608
Tel: 510.595.8042 Fax: 510.595.8365


LICENSED ARCHITECT
JOHN D. MALICK
NO. C 15229
Exp. 04/30/13
STATE OF CALIFORNIA



| Revisions | Date |
|---|---|
| Meeting | 6/23/11 |
| Revisions | 7/12/11 |

Foley Street Investments LLC

Tilden Way and Park Street
Alameda, CA

Drawing Title: Site Plan

Scale: 1" = 40'
Drawn By: AG/GK
Job Number: 456.1
Drawing Number: A101

# APPENDIX B

# CALCLEAN REPORT

CALCLEAN INC.

"A Partner in Protecting California's Waters"

January 19, 2012

AEI Consultants
2500 Camino Diablo, Suite 100
Walnut Creek, CA

ATTN: MR. PETER MCINTYRE

SITE: GOOD CHEVROLET
1630 PARK STREET
ALAMEDA, CA

RE: HIGH VACUUM DUAL PHASE EXTRACTION REPORT

Dear Mr. McIntyre:

CalClean Inc. is submitting this High Vacuum Dual Phase Extraction Report for the above referenced site. This report includes all activities performed during the dates of December 5, 2011 to January 9, 2012.

From December 5, 2011 to January 9, 2012, CalClean performed a 35-day high vacuum dual phase extraction (HVDPE) event on several onsite extraction wells using a low-noise, truck-mounted 450-CFM high-vacuum liquid ring blower along with a Bay Area Air Quality Management District (BAAQMD) various locations permitted propane-fired thermal oxidizer (Plant No. 12568). This technology allows hydrocarbons to be simultaneously removed from the vadose zone, capillary fringe, and saturated soil zone. A high vacuum was applied for vapor extraction and drawdown of the groundwater table around the extraction wells, while vacuum and vapor flow rates were modified to optimize recovery of vapor, free-product (if any) and dissolved-phase hydrocarbons.

During the event, the high vacuum dual phase extraction (HVDPE) system was connected to wells DPE-1, DPE-2, DPE-3, and MW-2 individually or in combination. HVDPE activities were conducted for a total of 35 days during the HVDPE event.

Vapor samples were collected in Tedlar bags during the HVDPE event from the extraction wells. Total Inlet well vapor samples were also collected during the event. The laboratory results, listed in Table 1 and laboratory reports included in Attachment 1, indicate the following:

- The starting Total Petroleum Hydrocarbons as Gasoline (TPH-G) vapor concentrations for wells DPE-1, DPE-2, and DPE-3 were 5,600 ppmv, 4,000 ppmv, and 7,100 ppmv, respectively. The ending TPH-G vapor concentrations were 1,600 ppmv, 1,700 ppmv, and 3,300 ppmv, respectively. The TPH-G vapor concentration for well MW-2 was 1,000 ppmv. The starting and ending Total Inlet TPH-G vapor concentrations were 6,000 ppmv and 1,500 ppmv, respectively.

- The starting Benzene vapor concentrations for wells DPE-1, DPE-2, and DPE-3 were 130 ppmv, 110 ppmv, and 130 ppmv, respectively. The ending Benzene vapor concentrations were 24 ppmv, 28 ppmv, and 62 ppmv, respectively. The Benzene vapor concentration for well MW-2 was 9 ppmv. The starting and ending Total Inlet Benzene vapor concentrations were 110 ppmv and 22 ppmv, respectively.

- The starting Methyl tert-Butyl Ether (MtBE) vapor concentrations for wells DPE-1, DPE-2, and DPE-3 were 280 ppmv, 160 ppmv, and 550 ppmv, respectively. The ending MtBE vapor concentrations were 18 ppmv, 22 ppmv, and 58 ppmv, respectively. The MtBE vapor concentration for well MW-2 was 13 ppmv. The starting and ending Total Inlet MtBE vapor concentrations were 170 ppmv and 18 ppmv, respectively.

The total equivalent amount of hydrocarbons recovered through vapor extraction during the 35-day HVDPE event was 6,422.16 pounds (based on laboratory data), and 4,274.15 pounds (based on the Horiba field organic vapor analyzer data) with an average of 5,348.16 pounds. The cumulative tabulation of recovered hydrocarbons (based on laboratory data) is provided in Table 2. The cumulative tabulation of recovered hydrocarbons (based on the field organic vapor analyzer data) is provided in Table 3.

The total volume of hydrocarbon-affected groundwater recovered from the extraction wells during the HVDPE event was approximately 43,530 gallons. The extracted groundwater was treated through two 500-pound granular activated carbon vessels in series and then discharged periodically to the onsite sewer system in accordance with Special Discharge Permit #36810870 from East Bay Municipal Utility District.

The following attachments are included to document the HVDPE event at the site:

| | |
|---|---|
| Table 1 | Results of Laboratory Analysis of Influent Vapor Samples |
| Table 2 | Hydrocarbon Mass Removal (using Lab Data) |
| Figure 1 | Total Inlet HC Concentrations versus Time (35-Days, Using Lab Data) |
| Figure 2 | Cumulative HC Recovered over 35 Days (using Lab Data) |
| Table 3 | Hydrocarbon Mass Removal (using Horiba Data) |
| Figure 3 | Total Inlet HC Concentrations versus Time (35-Days, Using Horiba Data) |
| Figure 4 | Cumulative HC Recovered over 35 Days (using Horiba and Lab Data) |
| Attachment 1 | Laboratory Reports |
| Attachment 2 | High Vacuum Dual Phase Extraction Field Data Sheets |

If you have any questions regarding this report, please contact us at (714) 734-9137 or via cell phone at (714) 936-2706.

Sincerely,

CALCLEAN INC.

Noel Shenoi
Principal Engineer

Attachments

CalClean Inc.

Table 1
RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES
Good Chevrolet
Alameda, CA

| Sample ID | Date/Time Sampled | TPH-g (ppmv) | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Total Xylenes (ppmv) | MtBE (ppmv) |
|---|---|---|---|---|---|---|---|
| DPE-1 | 12/5/11 1015 | 5,600 | 130 | 56 | 2.6 | 14 | 280 |
| DPE-1 | 12/6/11 1405 | 6,900 | 150 | 230 | 26 | 77 | 120 |
| DPE-1 | 12/6/11 2000 | 7,500 | 130 | 250 | 32 | 98 | 84 |
| DPE-1 | 12/7/11 0400 | 6,500 | 120 | 220 | 24 | 72 | 79 |
| DPE-1 | 12/30/11 0400 | 3,300 | 27 | 38 | 12 | 36 | 11 |
| DPE-1 | 1/9/12 1700 | 1,600 | 24 | 120 | 20 | 80 | 18 |
| DPE-2 | 12/5/11 1030 | 4,000 | 110 | 80 | 2.4 | 15 | 160 |
| DPE-2 | 12/8/11 0930 | 2,100 | 25 | 64 | 8.7 | 27 | 17 |
| DPE-2 | 12/8/11 1130 | 1,800 | 21 | 68 | 5.7 | 20 | 41 |
| DPE-2 | 12/8/11 1600 | 1,900 | 22 | 75 | 6.3 | 21 | 43 |
| DPE-2 | 12/9/11 0400 | 2,500 | 25 | 95 | 7.8 | 26 | 60 |
| DPE-2 | 12/30/11 0405 | 3,100 | 50 | 55 | 15 | 43 | 55 |
| DPE-2 | 1/9/12 1655 | 1,700 | 28 | 130 | 19 | 77 | 22 |

CalClean Inc.

Table 1
RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES
Good Chevrolet
Alameda, CA

| Sample ID | Date/Time Sampled | TPH-g (ppmv) | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Total Xylenes (ppmv) | MtBE (ppmv) |
|---|---|---|---|---|---|---|---|
| DPE-3 | 12/5/11 1040 | 7,100 | 130 | 120 | 5.5 | 28 | 550 |
| DPE-3 | 12/7/11 0905 | 10,000 | 180 | 310 | 35 | 100 | 93 |
| DPE-3 | 12/7/11 1100 | 15,000 | 180 | 320 | 49 | 110 | 330 |
| DPE-3 | 12/7/11 1600 | 9,200 | 120 | 330 | 54 | 140 | 210 |
| DPE-3 | 12/8/11 0400 | 10,000 | 120 | 260 | 51 | 130 | 240 |
| DPE-3 | 12/30/11 0410 | 3,300 | 62 | 64 | 20 | 55 | 58 |
| MW-2 | 1/9/12 1645 | 1,000 | 9 | 74 | 15 | 61 | 13 |

CalClean Inc.

Table 1
RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES
Good Chevrolet
Alameda, CA

| Sample ID | Date/Time Sampled | TPH-g (ppmv) | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Total Xylenes (ppmv) | MtBE (ppmv) |
|---|---|---|---|---|---|---|---|
| TOTAL INLET | 12/5/11 1050 | 6,000 | 110 | 110 | 5.3 | 26 | 170 |
| TOTAL INLET | 12/9/11 0900 | 7,400 | 44 | 140 | 16 | 56 | 73 |
| TOTAL INLET | 12/10/11 0800 | 6,100 | 53 | 140 | 17 | 59 | 95 |
| TOTAL INLET | 12/11/11 0800 | 6,000 | 56 | 140 | 18 | 61 | 33 |
| TOTAL INLET | 12/12/11 0800 | 7,400 | 61 | 160 | 18 | 65 | 120 |
| TOTAL INLET | 12/22/11 1300 | 3,800 | 48 | 62 | 27 | 87 | 56 |
| TOTAL INLET | 12/30/11 0355 | 4,300 | 39 | 36 | 21 | 66 | 12 |
| TOTAL INLET | 1/6/12 0800 | 1,300 | 17 | 93 | 15 | 59 | 14 |
| TOTAL INLET | 1/9/12 1645 | 1,500 | 22 | 110 | 19 | 76 | 18 |

Notes:

ppmv = parts per million by volume

TPH - g = total petroleum hydrocarbons - gasoline

TPH-G/BTEX analyzed by EPA 8015B/8021B

CalClean Inc.

# Table 2
## HYDROCARBON MASS REMOVAL (Using Lab Data)
### Good Chevrolet, Alameda, CA

| TIME | SYSTEM PARAMETERS | | | Hydrocarbon Recovery | | |
|---|---|---|---|---|---|---|
| | Average System Vacuum (in of Hg) | Average Total System Inlet Flow (scfm) | Influent Concentrations Post-dilution* (ppmv) | (lbs) | (gal) | (Cumul. lbs) |
| 12/5/2011 10:50 | 22 | 97 | 6,000 | 0.00 | 0.00 | 0.00 |
| 12/9/2011 9:00 | 21 | 124 | 7,400 | 949.19 | 151.93 | 949.19 |
| 12/10/2011 8:00 | 21 | 123 | 6,100 | 261.05 | 41.78 | 1,210.23 |
| 12/11/2011 8:00 | 21 | 126 | 6,000 | 246.12 | 39.40 | 1,456.36 |
| 12/12/2011 8:00 | 21 | 124 | 7,400 | 273.66 | 43.80 | 1,730.02 |
| 12/22/2011 13:00 | 18 | 89 | 3,800 | 1,989.40 | 318.43 | 3,719.41 |
| 12/30/2011 3:55 | 15 | 177 | 4,300 | 1,341.46 | 214.72 | 5,060.87 |
| 1/6/2012 8:00 | 18 | 162 | 1,300 | 1,111.95 | 177.98 | 6,172.82 |
| 1/9/2012 16:45 | 18 | 162 | 1,500 | 249.35 | 39.91 | 6,422.16 |
| | | | | | | |
| **TOTAL HC RECOVERED* - LAB DATA** | | | | **6,422.16** | **1,027.96** | |
| **TOTAL HC RECOVERED** - FIELD ANALYZER DATA** | | | | **4,274.15** | **684.14** | |
| **Average HC Recovered*** (Field Analyzer/Lab Data)** | | | | **5,348.16** | **856.05** | |

| | |
|---|---|
| **TOTAL GROUNDWATER RECOVERED** | **43,530** |

in of Hg = inches of mercury ppmv = parts per million by volume

scfm = standard cubic feet per minute gal = gallons lbs = pounds

* Concentration data based on laboratory data.

** Based on Horiba field analyzer data.

*** Average HC Recovered using Laboratory and Horiba data

Figure 1

## Total Inlet HC Concentrations vs Time (35 Days)

### Good Chevrolet, Alameda, CA - 12/5/11-1/9/12

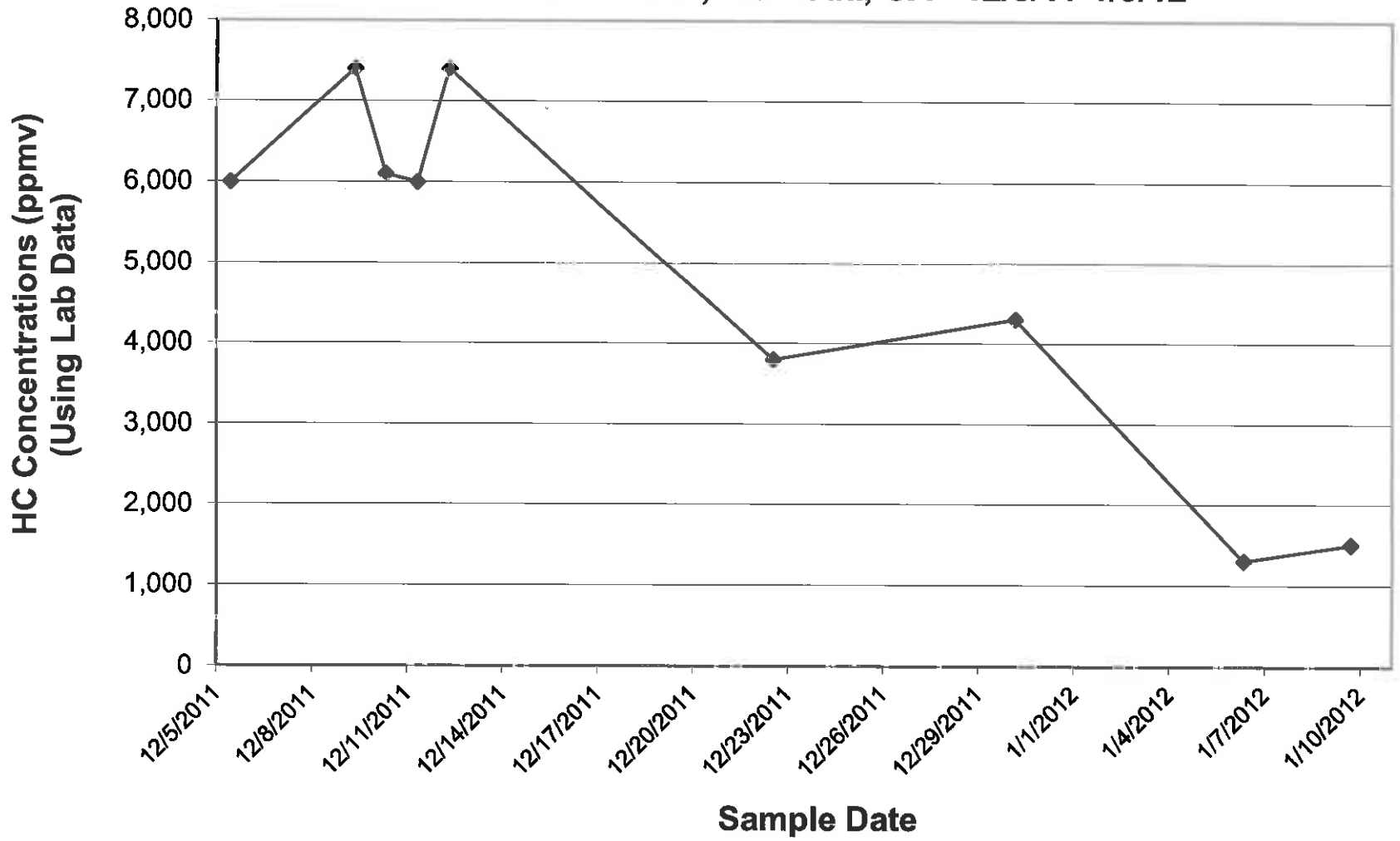
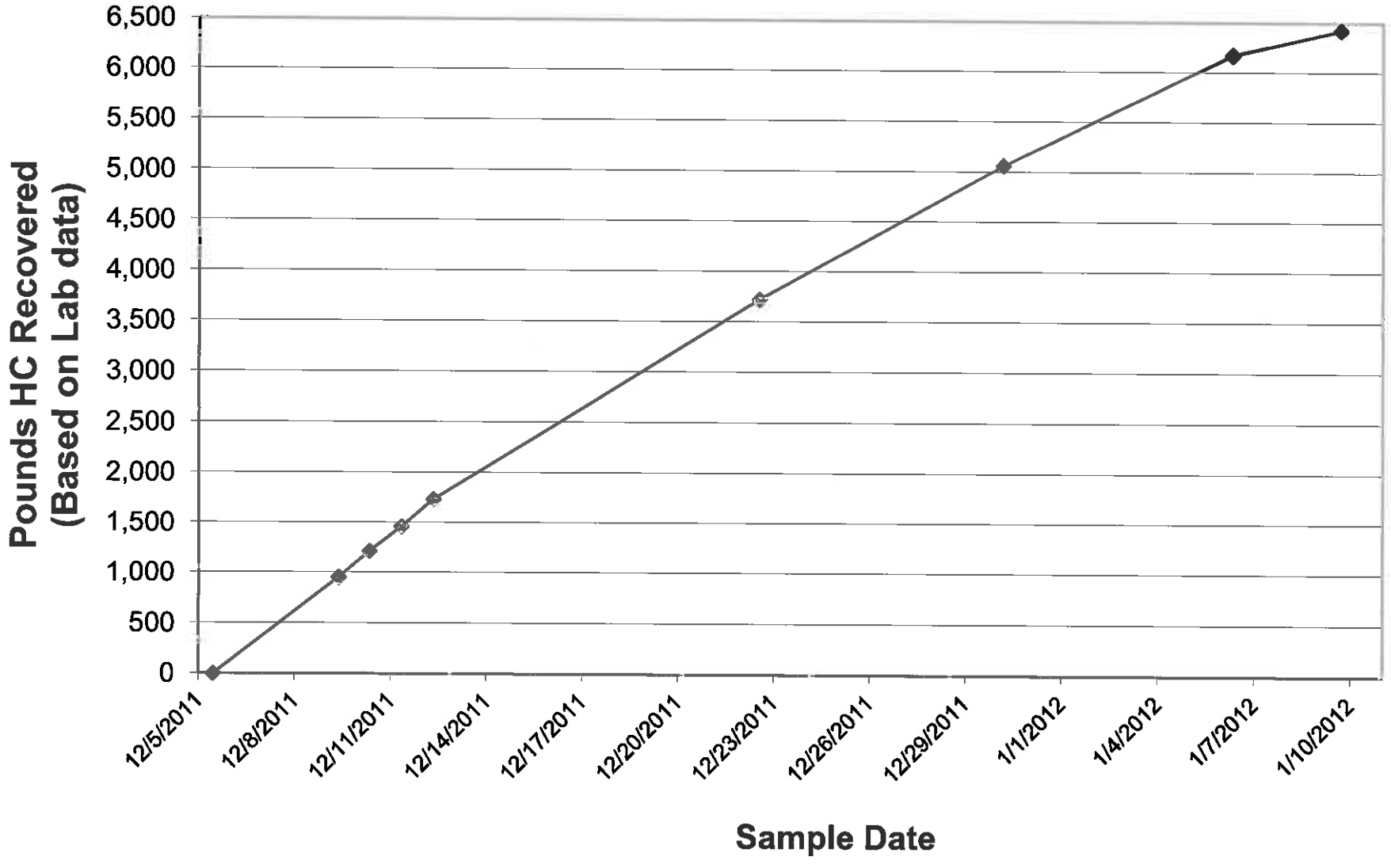


Figure 2

## Cumulative HC Recovered Over 35 Days

### Good Chevrolet, Alameda, CA - 12/5/11-1/9/12



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## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/5/2011 10:15 | | | | | | | 24 | 35 | 11,560 | 6 | 0.00 | 0.00 | 0.00 |
| 12/5/2011 10:30 | | During the event, various wells were extracted from as directed by the consultant. | | | | | 24 | 37 | 6,740 | 3 | 1.12 | 0.18 | 1.12 |
| 12/5/2011 10:40 | | | | | | | 24 | 36 | 8,710 | | 0.64 | 0.10 | 1.76 |
| 12/5/2011 10:50 | | | | | | | 22 | 97 | 9,510 | | 1.37 | 0.22 | 3.14 |
| 12/5/2011 12:00 | | | | | | | 22 | 98 | 9,230 | | 14.51 | 2.32 | 17.65 |
| 12/6/2011 11:40 | | | | | | | 23 | 31 | 5,610 | | 154.21 | 24.68 | 171.86 |
| 12/6/2011 12:10 | | | | | | | 25 | 34 | 5,040 | | 1.18 | 0.19 | 173.04 |
| 12/6/2011 12:30 | | | | | | | 25 | 33 | 5,830 | | 0.83 | 0.13 | 173.86 |
| 12/6/2011 13:00 | | | | | | | 25 | 30 | 6,390 | | 1.31 | 0.21 | 175.17 |
| 12/6/2011 13:30 | | | | | | | 25 | 31 | 5,920 | | 1.28 | 0.20 | 176.45 |
| 12/6/2011 14:00 | | | | | | | 25 | 32 | 7,790 | | 1.47 | 0.24 | 177.92 |
| 12/6/2011 14:30 | | | | | | | 25 | 34 | 7,640 | | 1.73 | 0.28 | 179.65 |
| 12/6/2011 15:00 | | | | | | | 25 | 33 | 6,930 | | 1.66 | 0.27 | 181.32 |
| 12/6/2011 15:30 | | | | | | | 25 | 31 | 6,910 | | 1.51 | 0.24 | 182.82 |
| 12/6/2011 16:00 | | | | | | | 25 | 31 | 6,730 | | 1.44 | 0.23 | 184.26 |
| 12/6/2011 20:00 | | | | | | | 25 | 38 | 6,810 | | 12.72 | 2.04 | 196.98 |
| 12/7/2011 0:01 | | | | | | | 25 | 32 | 6,470 | | 12.71 | 2.03 | 209.69 |
| 12/7/2011 4:00 | | | | | | | 25 | 36 | 6,230 | | 11.71 | 1.87 | 221.40 |
| 12/7/2011 8:00 | | | | | | | 25 | 37 | 6,410 | | 12.56 | 2.01 | 233.96 |
| 12/7/2011 9:00 | | | | | | | 25 | 38 | 8,130 | | 3.71 | 0.59 | 237.68 |
| 12/7/2011 9:30 | | | | | | | 25 | 34 | 9,930 | | 2.21 | 0.35 | 239.89 |
| 12/7/2011 10:00 | | | | | | | 25 | 31 | 10,670 | | 2.28 | 0.36 | 242.17 |
| 12/7/2011 10:30 | | | | | | | 25 | 37 | 10,390 | | 2.44 | 0.39 | 244.60 |
| 12/7/2011 11:00 | | | | | | | 25 | 33 | 11,540 | | 2.61 | 0.42 | 247.22 |
| 12/7/2011 11:30 | | | | | | | 25 | 32 | 12,810 | | 2.69 | 0.43 | 249.91 |
| 12/7/2011 12:00 | | | | | | | 25 | 34 | 11,370 | | 2.72 | 0.43 | 252.63 |
| 12/7/2011 12:30 | | | | | | | 25 | 31 | 11,920 | | 2.58 | 0.41 | 255.20 |
| 12/7/2011 13:00 | | | | | | | 25 | 32 | 10,730 | | 2.43 | 0.39 | 257.63 |
| 12/7/2011 14:00 | | | | | | | 25 | 31 | 10,510 | | 4.55 | 0.73 | 262.19 |
| 12/7/2011 15:00 | | | | | | | 25 | 32 | 10,930 | | 4.60 | 0.74 | 266.78 |

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## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/7/2011 16:00 | | | | | | | 25 | 34 | 10,870 | | 4.90 | 0.78 | 271.68 |
| 12/7/2011 20:00 | | | | | | | 25 | 31 | 10,410 | | 18.83 | 3.01 | 290.51 |
| 12/8/2011 0:01 | | | | | | | 25 | 31 | 10,110 | | 17.39 | 2.78 | 307.91 |
| 12/8/2011 4:00 | | | | | | | 25 | 33 | 9,630 | | 17.13 | 2.74 | 325.04 |
| 12/8/2011 8:00 | | | | | | | 25 | 30 | 9,240 | | 16.19 | 2.59 | 341.22 |
| 12/8/2011 8:30 | | | | | | | 25 | 31 | 6,370 | | 1.62 | 0.26 | 342.84 |
| 12/8/2011 9:00 | | | | | | | 25 | 30 | 6,640 | | 1.35 | 0.22 | 344.19 |
| 12/8/2011 9:30 | | | | | | | 25 | 30 | 6,810 | | 1.37 | 0.22 | 345.57 |
| 12/8/2011 10:00 | | | | | | | 25 | 31 | 7,340 | | 1.47 | 0.24 | 347.04 |
| 12/8/2011 10:30 | | | | | | | 25 | 32 | 7,260 | | 1.57 | 0.25 | 348.60 |
| 12/8/2011 11:00 | | | | | | | 24 | 39 | 7,490 | | 1.78 | 0.29 | 350.38 |
| 12/8/2011 11:30 | | | | | | | 24 | 38 | 8,230 | | 2.06 | 0.33 | 352.44 |
| 12/8/2011 12:00 | | | | | | | 24 | 36 | 8,170 | | 2.07 | 0.33 | 354.51 |
| 12/8/2011 12:30 | | | | | | | 24 | 37 | 7,940 | | 2.00 | 0.32 | 356.51 |
| 12/8/2011 13:00 | | | | | | | 24 | 38 | 8,340 | | 2.08 | 0.33 | 358.59 |
| 12/8/2011 14:00 | | | | | | | 24 | 37 | 8,170 | | 4.21 | 0.67 | 362.80 |
| 12/8/2011 15:00 | | | | | | | 23 | 41 | 7,940 | | 4.28 | 0.68 | 367.08 |
| 12/8/2011 16:00 | | | | | | | 23 | 44 | 7,530 | | 4.48 | 0.72 | 371.56 |
| 12/8/2011 20:00 | | | | | | | 23 | 43 | 6,720 | | 16.88 | 2.70 | 388.43 |
| 12/9/2011 0:01 | | | | | | | 23 | 42 | 5,710 | | 14.44 | 2.31 | 402.88 |
| 12/9/2011 4:00 | | | | | | | 23 | 43 | 4,930 | | 12.26 | 1.96 | 415.14 |
| 12/9/2011 8:00 | | | | | | | 23 | 46 | 2,670 | | 9.21 | 1.47 | 424.35 |
| 12/9/2011 9:00 | | | | | | | 21 | 124 | 5,380 | | 4.66 | 0.75 | 429.01 |
| 12/9/2011 10:00 | | | | | | | 21 | 121 | 6,140 | | 9.61 | 1.54 | 438.62 |
| 12/9/2011 11:00 | | | | | | | 21 | 123 | 6,970 | | 10.89 | 1.74 | 449.50 |
| 12/9/2011 12:00 | | | | | | | 21 | 128 | 7,830 | | 12.64 | 2.02 | 462.15 |
| 12/9/2011 16:00 | | | | | | | 21 | 124 | 8,270 | | 55.24 | 8.84 | 517.39 |
| 12/9/2011 20:00 | | | | | | | 21 | 129 | 8,140 | | 56.53 | 9.05 | 573.91 |
| 12/10/2011 0:01 | | | | | | | 21 | 127 | 8,610 | | 58.62 | 9.38 | 632.54 |
| 12/10/2011 8:00 | | | | | | | 21 | 123 | 8,530 | | 116.44 | 18.64 | 748.97 |

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## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/10/2011 12:00 | | | | | | | 21 | 125 | 8,970 | | 59.09 | 9.46 | 808.06 |
| 12/10/2011 16:00 | | | | | | | 21 | 124 | 8,410 | | 58.92 | 9.43 | 866.98 |
| 12/10/2011 20:00 | | | | | | | 21 | 128 | 8,160 | | 56.85 | 9.10 | 923.83 |
| 12/11/2011 0:01 | | | | | | | 21 | 121 | 7,920 | | 54.74 | 8.76 | 978.58 |
| 12/11/2011 8:00 | | | | | | | 21 | 126 | 8,230 | | 108.40 | 17.35 | 1,086.97 |
| 12/11/2011 12:00 | | | | | | | 21 | 124 | 8,040 | | 55.38 | 8.86 | 1,142.35 |
| 12/11/2011 16:00 | | | | | | | 21 | 125 | 7,980 | | 54.31 | 8.69 | 1,196.66 |
| 12/11/2011 20:00 | | | | | | | 21 | 123 | 7,530 | | 52.37 | 8.38 | 1,249.03 |
| 12/12/2011 0:01 | | | | | | | 21 | 128 | 7,410 | | 51.27 | 8.21 | 1,300.30 |
| 12/12/2011 8:00 | | | | | | | 21 | 124 | 7,230 | | 100.25 | 16.05 | 1,400.55 |
| 12/12/2011 10:30 | | | | | | | 23 | 93 | 5,930 | | 24.30 | 3.89 | 1,424.85 |
| 12/12/2011 10:45 | | | | | | | 23 | 97 | 6,170 | | 1.96 | 0.31 | 1,426.80 |
| 12/12/2011 12:00 | | | | | | | 23 | 95 | 6,020 | | 9.96 | 1.59 | 1,436.76 |
| 12/12/2011 16:00 | | | | | | | 21 | 128 | 5,970 | | 36.40 | 5.83 | 1,473.17 |
| 12/12/2011 20:00 | | | | | | | 21 | 129 | 6,240 | | 42.72 | 6.84 | 1,515.89 |
| 12/13/2011 0:01 | | | | | | | 20 | 132 | 6,510 | | 45.50 | 7.28 | 1,561.38 |
| 12/13/2011 8:00 | | | | | | | 19 | 147 | 6,830 | | 101.14 | 16.19 | 1,662.52 |
| 12/13/2011 12:00 | | | | | | | 19 | 143 | 6,670 | | 53.30 | 8.53 | 1,715.82 |
| 12/13/2011 16:00 | | | | | | | 19 | 142 | 6,510 | | 51.14 | 8.19 | 1,766.96 |
| 12/13/2011 20:00 | | | | | | | 19 | 144 | 6,380 | | 50.19 | 8.03 | 1,817.16 |
| 12/14/2011 0:01 | | | | | | | 19 | 148 | 6,110 | | 49.86 | 7.98 | 1,867.02 |
| 12/14/2011 8:00 | | | | | | | 19 | 145 | 6,920 | | 103.74 | 16.61 | 1,970.76 |
| 12/14/2011 12:00 | | | | | | | 19 | 147 | 5,730 | | 50.29 | 8.05 | 2,021.05 |
| 12/14/2011 16:00 | | | | | | | 19 | 142 | 5,570 | | 44.46 | 7.12 | 2,065.51 |
| 12/14/2011 20:00 | | | | | | | 19 | 148 | 5,140 | | 42.29 | 6.77 | 2,107.80 |
| 12/15/2011 0:01 | | | | | | | 18 | 151 | 4,930 | | 41.16 | 6.59 | 2,148.97 |
| 12/15/2011 8:00 | | | | | | | 18 | 153 | 4,410 | | 77.15 | 12.35 | 2,226.12 |
| 12/15/2011 12:00 | | | | | | | 18 | 154 | 4,230 | | 36.11 | 5.78 | 2,262.23 |
| 12/15/2011 16:00 | | | | | | | 18 | 152 | 4,370 | | 35.83 | 5.73 | 2,298.06 |
| 12/15/2011 20:00 | | | | | | | 21 | 136 | 4,920 | | 36.43 | 5.83 | 2,334.49 |

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## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/16/2011 0:01 | | | | | | | 19 | 137 | 4,930 | | 36.76 | 5.88 | 2,371.25 |
| 12/16/2011 8:00 | | | | | | | 20 | 138 | 4,890 | | 73.38 | 11.75 | 2,444.64 |
| 12/16/2011 12:00 | | | | | | | 20 | 136 | 4,840 | | 36.30 | 5.81 | 2,480.93 |
| 12/16/2011 16:00 | | | | | | | 20 | 139 | 4,840 | | 36.24 | 5.80 | 2,517.18 |
| 12/16/2011 20:00 | | | | | | | 19 | 137 | 4,710 | | 35.89 | 5.74 | 2,553.06 |
| 12/17/2011 0:01 | | | | | | | 18 | 148 | 4,530 | | 36.00 | 5.76 | 2,589.07 |
| 12/17/2011 8:00 | | | | | | | 18 | 151 | 4,250 | | 71.34 | 11.42 | 2,660.40 |
| 12/17/2011 12:00 | | | | | | | 18 | 153 | 4,290 | | 35.35 | 5.66 | 2,695.75 |
| 12/17/2011 16:00 | | | | | | | 18 | 151 | 4,310 | | 35.60 | 5.70 | 2,731.34 |
| 12/17/2011 20:00 | | | | | | | 18 | 153 | 4,230 | | 35.35 | 5.66 | 2,766.69 |
| 12/18/2011 0:01 | | | | | | | 18 | 151 | 4,190 | | 35.00 | 5.60 | 2,801.69 |
| 12/18/2011 8:00 | | | | | | | 18 | 154 | 4,120 | | 68.87 | 11.02 | 2,870.56 |
| 12/18/2011 12:00 | | | | | | | 18 | 151 | 4,160 | | 34.38 | 5.50 | 2,904.94 |
| 12/18/2011 16:00 | | | | | | | 18 | 154 | 4,070 | | 34.18 | 5.47 | 2,939.12 |
| 12/18/2011 20:00 | | | | | | | 18 | 153 | 4,010 | | 33.77 | 5.41 | 2,972.89 |
| 12/19/2011 0:01 | | | | | | | 18 | 154 | 3,930 | | 33.33 | 5.33 | 3,006.22 |
| 12/19/2011 8:00 | | | | | | | 18 | 153 | 3,870 | | 65.07 | 10.42 | 3,071.28 |
| 12/19/2011 12:00 | | | | | | | 18 | 156 | 3,750 | | 32.06 | 5.13 | 3,103.34 |
| 12/19/2011 16:00 | | | | | | | 18 | 153 | 3,630 | | 31.05 | 4.97 | 3,134.39 |
| 12/19/2011 16:15 | | | | | | | 14 | 190 | 1,820 | | 1.59 | 0.25 | 3,135.98 |
| 12/19/2011 16:30 | | | | | | | 14 | 193 | 1,808 | | 1.18 | 0.19 | 3,137.16 |
| 12/19/2011 16:35 | | | | | | | 14 | 197 | 1,820 | | 0.40 | 0.06 | 3,137.56 |
| 12/19/2011 17:00 | | | | | | | 14 | 193 | 1,770 | | 1.99 | 0.32 | 3,139.55 |
| 12/19/2011 17:15 | | | | | | | 14 | 190 | 1,760 | | 1.15 | 0.18 | 3,140.70 |
| 12/19/2011 17:30 | | | | | | | 14 | 194 | 1,710 | | 1.13 | 0.18 | 3,141.83 |
| 12/19/2011 17:45 | | | | | | | 14 | 196 | 1,730 | | 1.14 | 0.18 | 3,142.98 |
| 12/19/2011 18:00 | | | | | | | 14 | 196 | 1,680 | | 1.14 | 0.18 | 3,144.11 |
| 12/19/2011 18:15 | | | | | | | 14 | 191 | 1,710 | | 1.12 | 0.18 | 3,145.23 |
| 12/19/2011 18:30 | | | | | | | 14 | 193 | 1,740 | | 1.13 | 0.18 | 3,146.36 |
| 12/19/2011 18:45 | | | | | | | 14 | 197 | 1,780 | | 1.17 | 0.19 | 3,147.52 |

CalClean Inc.

## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/19/2011 19:00 | | | | | | | 14 | 194 | 1,830 | | 1.20 | 0.19 | 3,148.73 |
| 12/19/2011 19:15 | | | | | | | 14 | 197 | 1,860 | | 1.23 | 0.20 | 3,149.95 |
| 12/19/2011 19:30 | | | | | | | 14 | 193 | 1,910 | | 1.25 | 0.20 | 3,151.20 |
| 12/19/2011 19:45 | | | | | | | 14 | 197 | 1,960 | | 1.28 | 0.21 | 3,152.49 |
| 12/19/2011 20:00 | | | | | | | 14 | 196 | 1,970 | | 1.31 | 0.21 | 3,153.80 |
| 12/19/2011 21:00 | | | | | | | 14 | 194 | 1,940 | | 5.19 | 0.83 | 3,158.99 |
| 12/19/2011 22:00 | | | | | | | 14 | 196 | 1,870 | | 5.06 | 0.81 | 3,164.05 |
| 12/19/2011 23:00 | | | | | | | 14 | 196 | 1,890 | | 5.02 | 0.80 | 3,169.07 |
| 12/20/2011 0:00 | | | | | | | 14 | 197 | 1,860 | | 5.02 | 0.80 | 3,174.08 |
| 12/20/2011 0:01 | | | | | | | 14 | 196 | 1,820 | | 0.08 | 0.01 | 3,174.17 |
| 12/20/2011 8:00 | | | | | | | 14 | 197 | 1,830 | | 38.98 | 6.24 | 3,213.15 |
| 12/20/2011 12:00 | | | | | | | 14 | 195 | 1,780 | | 19.27 | 3.08 | 3,232.41 |
| 12/20/2011 16:00 | | | | | | | 14 | 197 | 1,710 | | 18.63 | 2.98 | 3,251.04 |
| 12/20/2011 20:00 | | | | | | | 16 | 153 | 2,470 | | 19.92 | 3.19 | 3,270.96 |
| 12/21/2011 0:01 | | | | | | | 16 | 157 | 2,140 | | 19.54 | 3.13 | 3,290.50 |
| 12/21/2011 8:00 | | | | | | | 15 | 158 | 1,780 | | 33.55 | 5.37 | 3,324.05 |
| 12/21/2011 9:30 | | | | | | | 15 | 142 | 1,717 | | 5.36 | 0.86 | 3,329.41 |
| 12/21/2011 9:45 | | | | | | | 15 | 147 | 1,706 | | 0.84 | 0.13 | 3,330.25 |
| 12/21/2011 10:00 | | | | | | | 15 | 147 | 1,672 | | 0.85 | 0.14 | 3,331.09 |
| 12/21/2011 10:15 | | | | | | | 15 | 147 | 1,682 | | 0.84 | 0.13 | 3,331.93 |
| 12/21/2011 10:30 | | | | | | | 15 | 149 | 1,630 | | 0.83 | 0.13 | 3,332.77 |
| 12/21/2011 10:45 | | | | | | | 15 | 149 | 1,608 | | 0.82 | 0.13 | 3,333.59 |
| 12/21/2011 11:00 | | | | | | | 15 | 147 | 1,637 | | 0.82 | 0.13 | 3,334.40 |
| 12/21/2011 11:15 | | | | | | | 15 | 149 | 1,638 | | 0.82 | 0.13 | 3,335.23 |
| 12/21/2011 11:30 | | | | | | | 15 | 147 | 1,593 | | 0.81 | 0.13 | 3,336.04 |
| 12/21/2011 11:45 | | | | | | | 15 | 149 | 1,550 | | 0.79 | 0.13 | 3,336.83 |
| 12/21/2011 12:00 | | | | | | | 15 | 147 | 1,560 | | 0.78 | 0.13 | 3,337.62 |
| 12/21/2011 13:00 | | | | | | | 15 | 149 | 1,610 | | 3.19 | 0.51 | 3,340.81 |
| 12/21/2011 14:00 | | | | | | | 15 | 149 | 1,730 | | 3.39 | 0.54 | 3,344.20 |
| 12/21/2011 15:00 | | | | | | | 15 | 148 | 1,670 | | 3.44 | 0.55 | 3,347.64 |

CalClean Inc.

## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/21/2011 16:00 | | | | | | | 15 | 149 | 1,640 | | 3.35 | 0.54 | 3,350.98 |
| 12/21/2011 17:00 | | | | | | | 15 | 151 | 1,650 | | 3.36 | 0.54 | 3,354.34 |
| 12/21/2011 18:00 | | | | | | | 15 | 150 | 1,620 | | 3.35 | 0.54 | 3,357.69 |
| 12/21/2011 20:00 | | | | | | | 15 | 149 | 1,630 | | 6.62 | 1.06 | 3,364.31 |
| 12/21/2011 22:00 | | | | | | | 15 | 151 | 1,610 | | 6.62 | 1.06 | 3,370.92 |
| 12/22/2011 0:00 | | | | | | | 15 | 149 | 1,590 | | 6.54 | 1.05 | 3,377.46 |
| 12/22/2011 8:00 | | | | | | | 15 | 151 | 1,470 | | 25.00 | 4.00 | 3,402.46 |
| 12/22/2011 12:00 | | | | | | | 15 | 151 | 1,410 | | 11.84 | 1.90 | 3,414.30 |
| 12/22/2011 13:00 | | | | | | | 18 | 89 | 1,380 | | 2.28 | 0.36 | 3,416.58 |
| 12/22/2011 13:30 | | | | | | | 18 | 81 | 1,420 | | 0.81 | 0.13 | 3,417.39 |
| 12/22/2011 14:00 | | | | | | | 18 | 86 | 1,470 | | 0.82 | 0.13 | 3,418.21 |
| 12/22/2011 14:30 | | | | | | | 18 | 85 | 1,490 | | 0.86 | 0.14 | 3,419.07 |
| 12/22/2011 15:00 | | | | | | | 18 | 84 | 1,530 | | 0.87 | 0.14 | 3,419.94 |
| 12/22/2011 15:30 | | | | | | | 18 | 87 | 1,570 | | 0.90 | 0.14 | 3,420.84 |
| 12/22/2011 16:00 | | | | | | | 18 | 83 | 1,620 | | 0.92 | 0.15 | 3,421.76 |
| 12/22/2011 16:30 | | | | | | | 18 | 85 | 1,610 | | 0.92 | 0.15 | 3,422.69 |
| 12/22/2011 17:00 | | | | | | | 18 | 81 | 1,610 | | 0.91 | 0.15 | 3,423.60 |
| 12/22/2011 17:30 | | | | | | | 18 | 87 | 1,593 | | 0.92 | 0.15 | 3,424.51 |
| 12/22/2011 18:00 | | | | | | | 18 | 82 | 1,542 | | 0.90 | 0.14 | 3,425.41 |
| 12/22/2011 18:30 | | | | | | | 18 | 86 | 1,579 | | 0.89 | 0.14 | 3,426.31 |
| 12/22/2011 19:00 | | | | | | | 18 | 83 | 1,528 | | 0.89 | 0.14 | 3,427.20 |
| 12/22/2011 19:30 | | | | | | | 18 | 81 | 1,552 | | 0.86 | 0.14 | 3,428.06 |
| 12/22/2011 20:00 | | | | | | | 18 | 87 | 1,513 | | 0.88 | 0.14 | 3,428.94 |
| 12/23/2011 0:00 | | | | | | | 18 | 86 | 1,437 | | 6.95 | 1.11 | 3,435.89 |
| 12/23/2011 4:00 | | | | | | | 16 | 103 | 1,371 | | 7.23 | 1.16 | 3,443.11 |
| 12/23/2011 8:00 | | | | | | | 14 | 121 | 1,293 | | 8.12 | 1.30 | 3,451.24 |
| 12/23/2011 12:00 | | | | | | | 14 | 124 | 1,281 | | 8.59 | 1.37 | 3,459.82 |
| 12/23/2011 13:00 | | | | | | | 15 | 173 | 1,497 | | 2.81 | 0.45 | 3,462.63 |
| 12/23/2011 16:00 | | | | | | | 15 | 174 | 1,578 | | 10.90 | 1.74 | 3,473.53 |
| 12/23/2011 20:00 | | | | | | | 15 | 178 | 1,632 | | 15.38 | 2.46 | 3,488.91 |

**CalClean Inc.**

## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # **DP-1** (Stinger Depth) | Extraction Well # **DP-2** (Stinger Depth) | Extraction Well # **DP-3** (Stinger Depth) | Extraction Well # **MW-2** (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/24/2011 0:00 | | | | | | | 15 | 177 | 1,581 | | 15.53 | 2.49 | 3,504.44 |
| 12/24/2011 4:00 | | | | | | | 15 | 175 | 1,459 | | 14.57 | 2.33 | 3,519.01 |
| 12/24/2011 8:00 | | | | | | | 15 | 171 | 1,398 | | 13.46 | 2.15 | 3,532.47 |
| 12/24/2011 12:00 | | | | | | | 15 | 176 | 1,378 | | 13.11 | 2.10 | 3,545.58 |
| 12/24/2011 16:00 | | | | | | | 15 | 173 | 1,306 | | 12.75 | 2.04 | 3,558.33 |
| 12/24/2011 20:00 | | | | | | | 15 | 171 | 1,284 | | 12.13 | 1.94 | 3,570.47 |
| 12/25/2011 0:00 | | | | | | | 15 | 178 | 1,251 | | 12.05 | 1.93 | 3,582.51 |
| 12/25/2011 4:00 | | | | | | | 15 | 175 | 1,274 | | 12.14 | 1.94 | 3,594.65 |
| 12/25/2011 8:00 | | | | | | | 15 | 174 | 1,226 | | 11.88 | 1.90 | 3,606.53 |
| 12/25/2011 12:00 | | | | | | | 15 | 173 | 1,193 | | 11.43 | 1.83 | 3,617.95 |
| 12/25/2011 20:00 | | | | | | | 15 | 177 | 1,068 | | 21.55 | 3.45 | 3,639.50 |
| 12/26/2011 0:01 | | | | | | | 15 | 171 | 1,057 | | 10.11 | 1.62 | 3,649.61 |
| 12/26/2011 4:00 | | | | | | | 15 | 175 | 1,008 | | 9.69 | 1.55 | 3,659.30 |
| 12/26/2011 8:00 | | | | | | | 15 | 173 | 1,031 | | 9.66 | 1.55 | 3,668.96 |
| 12/26/2011 12:00 | | | | | | | 15 | 174 | 1,053 | | 9.85 | 1.58 | 3,678.81 |
| 12/26/2011 16:00 | | | | | | | 15 | 177 | 1,096 | | 10.27 | 1.64 | 3,689.08 |
| 12/26/2011 20:00 | | | | | | | 15 | 176 | 1,041 | | 10.27 | 1.64 | 3,699.35 |
| 12/27/2011 0:01 | | | | | | | 15 | 178 | 1,007 | | 9.91 | 1.59 | 3,709.26 |
| 12/27/2011 4:00 | | | | | | | 15 | 176 | 953 | | 9.41 | 1.51 | 3,718.67 |
| 12/27/2011 8:00 | | | | | | | 15 | 171 | 978 | | 9.12 | 1.46 | 3,727.79 |
| 12/27/2011 10:00 | | | | | | | 20 | 37 | 427 | | 1.99 | 0.32 | 3,729.78 |
| 12/27/2011 10:30 | | | | | | | 25 | 24 | 715 | | 0.12 | 0.02 | 3,729.90 |
| 12/27/2011 11:00 | | | | | | | 25 | 21 | 793 | | 0.12 | 0.02 | 3,730.01 |
| 12/27/2011 11:05 | | | | | | | 24 | 28 | 847 | | 0.02 | 0.00 | 3,730.03 |
| 12/27/2011 11:35 | | | | | | | 24 | 29 | 949 | | 0.17 | 0.03 | 3,730.21 |
| 12/27/2011 12:05 | | | | | | | 24 | 28 | 973 | | 0.19 | 0.03 | 3,730.40 |
| 12/27/2011 12:10 | | | | | | | 23 | 31 | 942 | | 0.03 | 0.01 | 3,730.43 |
| 12/27/2011 12:40 | | | | | | | 23 | 33 | 1,013 | | 0.21 | 0.03 | 3,730.64 |
| 12/27/2011 13:10 | | | | | | | 23 | 32 | 1,028 | | 0.23 | 0.04 | 3,730.87 |
| 12/27/2011 13:15 | | | | | | | 22 | 39 | 1,054 | | 0.04 | 0.01 | 3,730.91 |

CalClean Inc.

## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/27/2011 13:45 | | | | | | | 22 | 39 | 1,059 | | 0.28 | 0.04 | 3,731.19 |
| 12/27/2011 14:15 | | | | | | | 22 | 38 | 1,077 | | 0.28 | 0.04 | 3,731.47 |
| 12/27/2011 14:20 | | | | | | | 25 | 23 | 243 | | 0.02 | 0.00 | 3,731.49 |
| 12/27/2011 14:50 | | | | | | | 24 | 26 | 317 | | 0.05 | 0.01 | 3,731.54 |
| 12/27/2011 15:20 | | | | | | | 24 | 28 | 343 | | 0.06 | 0.01 | 3,731.60 |
| 12/27/2011 15:25 | | | | | | | 23 | 30 | 418 | | 0.01 | 0.00 | 3,731.61 |
| 12/27/2011 15:55 | | | | | | | 23 | 32 | 447 | | 0.09 | 0.01 | 3,731.70 |
| 12/27/2011 16:25 | | | | | | | 22 | 35 | 496 | | 0.11 | 0.02 | 3,731.81 |
| 12/27/2011 16:30 | | | | | | | 21 | 39 | 581 | | 0.02 | 0.00 | 3,731.83 |
| 12/27/2011 17:00 | | | | | | | 21 | 40 | 578 | | 0.16 | 0.02 | 3,731.99 |
| 12/27/2011 17:30 | | | | | | | 21 | 43 | 721 | | 0.18 | 0.03 | 3,732.17 |
| 12/27/2011 17:45 | | | | | | | 17 | 163 | 852 | | 0.28 | 0.04 | 3,732.45 |
| 12/27/2011 20:00 | | | | | | | 17 | 162 | 871 | | 4.29 | 0.69 | 3,736.74 |
| 12/28/2011 0:01 | | | | | | | 16 | 168 | 864 | | 7.83 | 1.25 | 3,744.56 |
| 12/28/2011 4:00 | | | | | | | 16 | 170 | 921 | | 8.18 | 1.31 | 3,752.74 |
| 12/28/2011 8:00 | | | | | | | 16 | 171 | 907 | | 8.49 | 1.36 | 3,761.23 |
| 12/28/2011 12:00 | | | | | | | 15 | 174 | 923 | | 8.60 | 1.38 | 3,769.83 |
| 12/28/2011 16:00 | | | | | | | 15 | 177 | 974 | | 9.07 | 1.45 | 3,778.89 |
| 12/28/2011 20:00 | | | | | | | 15 | 178 | 951 | | 9.30 | 1.49 | 3,788.20 |
| 12/29/2011 0:01 | | | | | | | 15 | 178 | 928 | | 9.15 | 1.46 | 3,797.34 |
| 12/29/2011 4:00 | | | | | | | 15 | 176 | 897 | | 8.76 | 1.40 | 3,806.10 |
| 12/29/2011 8:00 | | | | | | | 15 | 173 | 871 | | 8.40 | 1.34 | 3,814.50 |
| 12/29/2011 12:00 | | | | | | | 15 | 171 | 855 | | 8.08 | 1.29 | 3,822.59 |
| 12/29/2011 16:00 | | | | | | | 15 | 172 | 833 | | 7.88 | 1.26 | 3,830.47 |
| 12/29/2011 20:00 | | | | | | | 15 | 174 | 818 | | 7.78 | 1.24 | 3,838.25 |
| 12/30/2011 0:01 | | | | | | | 15 | 171 | 841 | | 7.83 | 1.25 | 3,846.07 |
| 12/30/2011 4:00 | | | | | | | 15 | 177 | 876 | | 8.10 | 1.30 | 3,854.17 |
| 12/30/2011 12:15 | | | | | | | 25 | 33 | 289 | | 0.00 | 0.00 | 3,854.17 |
| 12/30/2011 12:30 | | | | | | | 25 | 25 | 241 | | 0.03 | 0.00 | 3,854.20 |
| 12/30/2011 13:00 | | | | | | | 25 | 37 | 376 | | 0.07 | 0.01 | 3,854.26 |

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## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 12/30/2011 13:30 | | | | | | | 25 | 39 | 528 | | 0.12 | 0.02 | 3,854.38 |
| 12/30/2011 14:00 | | | | | | | 25 | 38 | 1,073 | | 0.21 | 0.03 | 3,854.59 |
| 12/30/2011 14:30 | | | | | | | 25 | 39 | 1,637 | | 0.36 | 0.06 | 3,854.95 |
| 12/30/2011 16:00 | | | | | | | 25 | 38 | 1,728 | | 1.32 | 0.21 | 3,856.27 |
| 12/30/2011 20:00 | | | | | | | 25 | 37 | 1,793 | | 3.60 | 0.58 | 3,859.86 |
| 12/31/2011 0:01 | | | | | | | 25 | 35 | 1,852 | | 3.59 | 0.57 | 3,863.45 |
| 12/31/2011 4:00 | | | | | | | 25 | 37 | 1,937 | | 3.70 | 0.59 | 3,867.15 |
| 12/31/2011 8:00 | | | | | | | 25 | 39 | 2,010 | | 4.08 | 0.65 | 3,871.23 |
| 12/31/2011 12:00 | | | | | | | 25 | 36 | 1,958 | | 4.05 | 0.65 | 3,875.29 |
| 12/31/2011 13:15 | | | | | | | 22 | 57 | 1,538 | | 1.38 | 0.22 | 3,876.67 |
| 12/31/2011 14:15 | | | | | | | 22 | 58 | 1,529 | | 1.20 | 0.19 | 3,877.87 |
| 12/31/2011 15:15 | | | | | | | 22 | 56 | 1,486 | | 1.17 | 0.19 | 3,879.04 |
| 12/31/2011 16:00 | | | | | | | 22 | 55 | 1,392 | | 0.82 | 0.13 | 3,879.86 |
| 1/1/2012 4:00 | | | | | | | 22 | 57 | 1,173 | | 11.73 | 1.88 | 3,891.59 |
| 1/1/2012 8:00 | | | | | | | 22 | 59 | 1,158 | | 3.68 | 0.59 | 3,895.27 |
| 1/1/2012 12:00 | | | | | | | 22 | 56 | 1,117 | | 3.56 | 0.57 | 3,898.83 |
| 1/1/2012 16:00 | | | | | | | 22 | 55 | 1,073 | | 3.31 | 0.53 | 3,902.14 |
| 1/1/2012 20:00 | | | | | | | 22 | 59 | 1,047 | | 3.29 | 0.53 | 3,905.43 |
| 1/2/2012 0:01 | | | | | | | 22 | 59 | 1,004 | | 3.31 | 0.53 | 3,908.74 |
| 1/2/2012 4:00 | | | | | | | 22 | 60 | 956 | | 3.16 | 0.51 | 3,911.90 |
| 1/2/2012 8:00 | | | | | | | 22 | 58 | 928 | | 3.03 | 0.48 | 3,914.93 |
| 1/2/2012 12:00 | | | | | | | 22 | 56 | 911 | | 2.85 | 0.46 | 3,917.79 |
| 1/2/2012 16:00 | | | | | | | 22 | 124 | 1,298 | | 5.41 | 0.87 | 3,923.20 |
| 1/2/2012 20:00 | | | | | | | 22 | 132 | 1,252 | | 8.89 | 1.42 | 3,932.09 |
| 1/3/2012 0:01 | | | | | | | 22 | 137 | 1,227 | | 9.12 | 1.46 | 3,941.20 |
| 1/3/2012 4:00 | | | | | | | 19 | 148 | 1,177 | | 9.29 | 1.49 | 3,950.49 |
| 1/3/2012 8:00 | | | | | | | 18 | 164 | 1,135 | | 9.82 | 1.57 | 3,960.31 |
| 1/3/2012 11:00 | | | | | | | 18 | 163 | 1,103 | | 7.47 | 1.20 | 3,967.79 |
| 1/3/2012 15:00 | | | | | | | 18 | 164 | 1,078 | | 9.71 | 1.55 | 3,977.50 |
| 1/3/2012 16:00 | | | | | | | 18 | 163 | 1,056 | | 2.38 | 0.38 | 3,979.87 |

**CalClean Inc.**

## Table 3
## HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 1/3/2012 20:00 | | | | | | | 18 | 165 | 1,031 | | 9.32 | 1.49 | 3,989.19 |
| 1/4/2012 0:01 | | | | | | | 18 | 167 | 1,017 | | 9.30 | 1.49 | 3,998.49 |
| 1/4/2012 4:00 | | | | | | | 18 | 165 | 977 | | 8.98 | 1.44 | 4,007.46 |
| 1/4/2012 8:00 | | | | | | | 18 | 163 | 923 | | 8.48 | 1.36 | 4,015.95 |
| 1/4/2012 12:00 | | | | | | | 18 | 168 | 958 | | 8.48 | 1.36 | 4,024.43 |
| 1/4/2012 16:00 | | | | | | | 18 | 162 | 971 | | 8.67 | 1.39 | 4,033.09 |
| 1/4/2012 20:00 | | | | | | | 18 | 167 | 943 | | 8.57 | 1.37 | 4,041.67 |
| 1/5/2012 0:01 | | | | | | | 18 | 163 | 967 | | 8.62 | 1.38 | 4,050.28 |
| 1/5/2012 4:00 | | | | | | | 18 | 161 | 928 | | 8.32 | 1.33 | 4,058.61 |
| 1/5/2012 8:00 | | | | | | | 18 | 165 | 939 | | 8.29 | 1.33 | 4,066.89 |
| 1/5/2012 12:00 | | | | | | | 18 | 167 | 976 | | 8.66 | 1.39 | 4,075.55 |
| 1/5/2012 16:00 | | | | | | | 18 | 163 | 952 | | 8.66 | 1.39 | 4,084.21 |
| 1/5/2012 20:00 | | | | | | | 18 | 164 | 903 | | 8.26 | 1.32 | 4,092.47 |
| 1/6/2012 0:01 | | | | | | | 18 | 165 | 928 | | 8.24 | 1.32 | 4,100.71 |
| 1/6/2012 4:00 | | | | | | | 18 | 161 | 952 | | 8.31 | 1.33 | 4,109.02 |
| 1/6/2012 8:00 | | | | | | | 18 | 162 | 917 | | 8.22 | 1.32 | 4,117.24 |
| 1/6/2012 12:00 | | | | | | | 18 | 163 | 924 | | 8.15 | 1.30 | 4,125.38 |
| 1/6/2012 16:00 | | | | | | | 18 | 164 | 893 | | 8.09 | 1.29 | 4,133.47 |
| 1/6/2012 20:00 | | | | | | | 18 | 161 | 915 | | 8.00 | 1.28 | 4,141.47 |
| 1/7/2012 0:01 | | | | | | | 18 | 165 | 886 | | 8.03 | 1.28 | 4,149.50 |
| 1/7/2012 4:00 | | | | | | | 18 | 168 | 892 | | 8.03 | 1.28 | 4,157.53 |
| 1/7/2012 8:00 | | | | | | | 18 | 163 | 871 | | 7.95 | 1.27 | 4,165.47 |
| 1/7/2012 12:00 | | | | | | | 18 | 165 | 857 | | 7.72 | 1.24 | 4,173.19 |
| 1/7/2012 20:00 | | | | | | | 18 | 161 | 882 | | 15.44 | 2.47 | 4,188.63 |
| 1/8/2012 0:01 | | | | | | | 18 | 167 | 861 | | 7.82 | 1.25 | 4,196.44 |
| 1/8/2012 4:00 | | | | | | | 18 | 164 | 879 | | 7.81 | 1.25 | 4,204.25 |
| 1/8/2012 8:00 | | | | | | | 18 | 167 | 852 | | 7.80 | 1.25 | 4,212.05 |
| 1/8/2012 12:00 | | | | | | | 18 | 163 | 883 | | 7.80 | 1.25 | 4,219.85 |
| 1/8/2012 20:00 | | | | | | | 18 | 161 | 864 | | 15.41 | 2.47 | 4,235.26 |
| 1/9/2012 4:00 | | | | | | | 18 | 168 | 821 | | 15.10 | 2.42 | 4,250.35 |

**CalClean Inc.**

**Table 3**

# HYDROCARBON MASS REMOVAL (Using Field Analyzer Data)
## Good Chevrolet, Alameda, CA

| TIME | Extraction Well # DP-1 (Stinger Depth) | Extraction Well # DP-2 (Stinger Depth) | Extraction Well # DP-3 (Stinger Depth) | Extraction Well # MW-2 (Stinger Depth) | Extraction Well # (Stinger Depth) | Extraction Well # (Stinger Depth) | SYSTEM PARAMETERS | | | | Hydrocarbon Recovery (using Horiba Data) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | System Vacuum (in of Hg) | Total System Inlet Flow (scfm)** | Influent Concentrations (ppmv)* | Effluent Concentrations (ppmv) * | (lbs) | (gal) | (Cumul. lbs) |
| 1/9/2012 8:00 | | | | | | | 18 | 166 | 845 | | 7.58 | 1.21 | 4,257.93 |
| 1/9/2012 12:00 | | | | | | | 18 | 165 | 817 | | 7.49 | 1.20 | 4,265.42 |
| 1/9/2012 16:00 | | | | | | | 18 | 164 | 827 | | 7.36 | 1.18 | 4,272.78 |
| 1/9/2012 16:45 | | | | | | | 18 | 162 | 811 | | 1.36 | 0.22 | 4,274.15 |
| | | | | | | | | | | | | | |
| | | | | | | | | | TOTAL HC RECOVERED | | 4,274.15 | 684.14 | |
| | | | | | | | | | TOTAL GROUNDWATER EXTRACTED | | | 43,530 | |

Comments: Manual dilution was not opened during the event.

in of Hg = inches of mercury gal = gallons

scfm = standard cubic feet per minute lbs = pounds

* Concentrations based on Horiba MEXA 324-JU field organic vapor analyzer, calibrated as hexane

** Inlet flow measured through orifice tube and converted from acfm to reported scfm

Figure 3

## Total Inlet HC Concentrations vs Time (35 Days)

### Good Chevrolet, Alameda, CA - 12/5/11-1/9/12

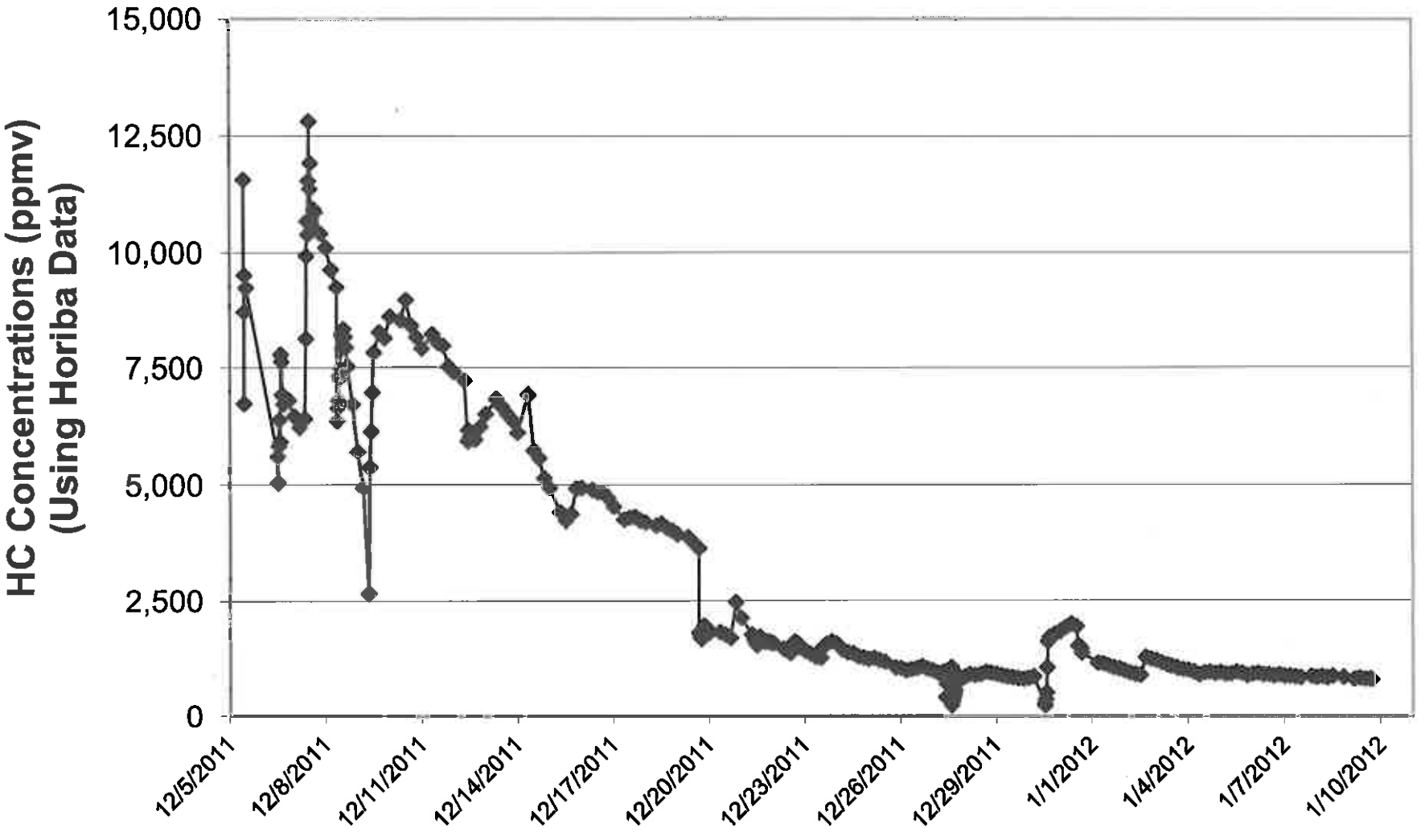
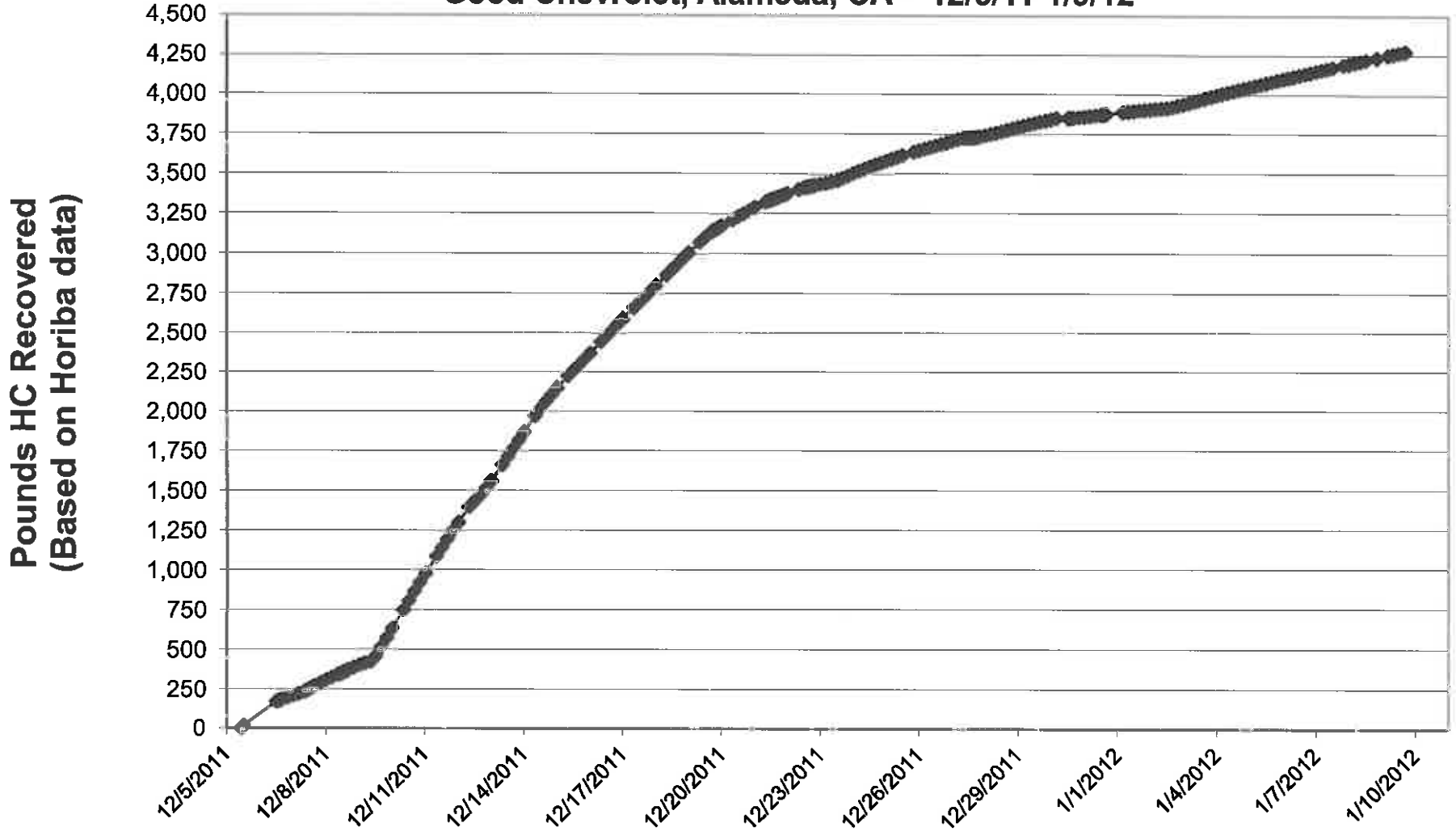


**Figure 4**
**Cumulative HC Recovered Over 35 Days**
**Good Chevrolet, Alameda, CA - 12/5/11-1/9/12**



# ATTACHMENT 1

# LABORATORY REPORTS

**Associated Laboratories**
*806 N. Batavia - Orange, CA 92868*
*Tel (714)771-6900 Fax (714)538-1209*
*www.associatedlabs.com*
*Info@associatedlabs.com*

ACCREDITED IN ACCORDANCE WITH nelac

| | | | |
|---|---|---|---|
| Client: | Calclean | Lab Request: | 295822 |
| Address: | 3002 Dow Ave. #142 Tustin, CA 92780 | Report Date: | 12/15/2011 |
| | | Date Received: | 12/07/2011 |
| Attn: | Noel Shenoi | Client ID: | 9977 |

Comments: Good Chevrolet
1630 Park St., Alameda, CA
Global ID: T0600100655

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 indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

| Sample # | Client Sample ID |
|---|---|
| 295822-001 | DPE-1 |
| 295822-002 | DPE-2 |
| 295822-003 | DPE-3 |
| 295822-004 | Total Inlet |
| 295822-005 | 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 Behare
Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.





*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

| | | | |
|---|---|---|---|
| Sample #: | 295822-001 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-1 |
| Collect Date: | 12/05/11 | Site: | |
| Collect Time: | 10:15 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Method:** EPA 8015B | **Prep Method:** Method | | | **QCBatchID:** QC1121362 | | |
| TPH Gasoline Vppm | 5600 | 100 | 500 | Vppm | 12/10/11 | sandyw |
| **Method:** EPA 8021B | **Prep Method:** Method | | | **QCBatchID:** QC1121363 | | |
| Benzene Vppm | 130 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Ethylbenzene Vppm | 2.6 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 280 | 100 | 10 | Vppm | 12/10/11 | sandyw |
| Toluene Vppm | 56 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Xylenes (Total) Vppm | 14 | 100 | 3 | Vppm | 12/10/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 295822-002 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-2 |
| Collect Date: | 12/05/11 | Site: | |
| Collect Time: | 10:30 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121362 | | |
| TPH Gasoline Vppm | 4000 | 50 | 250 | Vppm | 12/10/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121363 | | |
| Benzene Vppm | 110 | 50 | 0.5 | Vppm | 12/10/11 | sandyw |
| Ethylbenzene Vppm | 2.4 | 50 | 0.5 | Vppm | 12/10/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 160 | 50 | 5 | Vppm | 12/10/11 | sandyw |
| Toluene Vppm | 80 | 50 | 0.5 | Vppm | 12/10/11 | sandyw |
| Xylenes (Total) Vppm | 15 | 50 | 1.5 | Vppm | 12/10/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 295822-003 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-3 |
| Collect Date: | 12/05/11 | Site: | |
| Collect Time: | 10:40 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121362 | | |
| TPH Gasoline Vppm | 7100 | 100 | 500 | Vppm | 12/10/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121363 | | |
| Benzene Vppm | 130 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Ethylbenzene Vppm | 5.5 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 550 | 250 | 25 | Vppm | 12/10/11 | sandyw |
| Toluene Vppm | 120 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Xylenes (Total) Vppm | 28 | 100 | 3 | Vppm | 12/10/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 295822-004 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 12/05/11 | Site: | |
| Collect Time: | 10:50 AM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1121362 | |
| TPH Gasoline Vppm | | 6000 | 100 | 500 | Vppm | 12/10/11 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1121363 | |
| Benzene Vppm | | 110 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Ethylbenzene Vppm | | 5.3 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 170 | 100 | 10 | Vppm | 12/10/11 | sandyw |
| Toluene Vppm | | 110 | 100 | 1 | Vppm | 12/10/11 | sandyw |
| Xylenes (Total) Vppm | | 26 | 100 | 3 | Vppm | 12/10/11 | sandyw |

| | | | |
|---|---|---|---|
| Sample #: | 295822-005 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Stack |
| Collect Date: | 12/05/11 | Site: | |
| Collect Time: | 11:00 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121362 | | |
| TPH Gasoline Vppm | ND | 1 | 5 | Vppm | 12/10/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121363 | | |
| Benzene Vppm | ND | 1 | 0.01 | Vppm | 12/10/11 | sandyw |
| Ethylbenzene Vppm | ND | 1 | 0.01 | Vppm | 12/10/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | ND | 1 | 0.1 | Vppm | 12/10/11 | sandyw |
| Toluene Vppm | ND | 1 | 0.01 | Vppm | 12/10/11 | sandyw |
| Xylenes (Total) Vppm | ND | 1 | 0.03 | Vppm | 12/10/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

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

# Chain of Custody Record

Lab Job No. 295822
Page 1 of 1

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| COMPANY | CalClean Inc. | PROJECT NAME: | GOOD CHEVROLET |
| SEND REPORT TO: | 3002 Dow, #142 Tustin, CA 92780 | NUMBER: | |
| EMAIL: | | ADDRESS: | 1630 PARK ST ALAMEDA, CA |
| ADDRESS: | NOEL SHENOI | P.O. #: | |
| PHONE: Phone | (714) 734-9137 | SAMPLED BY: | |
| Fax | (714) 734-9138 | | |

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

| | Sample ID | Date | Time | Matrix | Container Number/Size | Pres. | ANALYSIS REQUEST: TPH-G (8015) | BTEX/MTBE (8021) | [illegible] | Test Instructions & Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DPE-1 | 12/5/11 | 1015 | AIR | TEDLAR | NONE | X | X | | |
| 2 | DPE-2 | | 1030 | | | | | | | |
| 3 | DPE-3 | | 1040 | | | | | | | |
| 4 | Total Inlet | | 1050 | | | | | | | |
| 5 | Stack | | 1100 | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | also email KKing |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | EDF |
| 14 | | | | | | | | | | TO 600100655 |
| 15 | | | | | | | | | | AIR = PPMV |

Total No. of Samples: 5 Method of Shipment:

Preservative: 1= Ice 2 =HCl 3 =$HNO_3$ 4 =$H_2SO_4$ 5 =NaOH 6 =Other

| Relinquished by 1. | Received By: 1. | Relinquished by 2. | Received By: 2. | Relinquished by 3. | Received By: 3. |
|---|---|---|---|---|---|
| Signature: Noel Shenoi | Signature: Daniel Lee | Signature: | Signature: | Signature: | Signature: |
| Printed Name: NOEL SHENOI | Printed Name: Daniel Lee | Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| Date: 12/7/11 Time: | Date: 12/7/11 Time: 1616 | Date: Time: | Date: Time: | Date: Time: | Date: Time: |

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

**Associated Laboratories**
*806 N. Batavia - Orange, CA 92868*
*Tel (714)771-6900 Fax (714)538-1209*
*www.associatedlabs.com*
*Info@associatedlabs.com*

ACCREDITED IN ACCORDANCE WITH nelac

| | | | |
|---|---|---|---|
| Client: | Calclean | Lab Request: | 296186 |
| Address: | 3002 Dow Ave.<br>#142<br>Tustin, CA 92780 | Report Date: | 12/21/2011 |
| | | Date Received: | 12/13/2011 |
| Attn: | Noel Shenoi | Client ID: | 9977 |

Comments: Good Chevrolet
1630 Park St., Alameda, CA
Global ID: T0600100655

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 indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

| Sample # | Client Sample ID |
|---|---|
| 296186-001 | DPE-1 |
| 296186-002 | DPE-1 |
| 296186-003 | DPE-1 |
| 296186-004 | DPE-3 |
| 296186-005 | DPE-3 |
| 296186-006 | DPE-3 |
| 296186-007 | DPE-3 |
| 296186-008 | DPE-2 |
| 296186-009 | DPE-2 |
| 296186-010 | DPE-2 |
| 296186-011 | DPE-2 |
| 296186-012 | Total Inlet |
| 296186-013 | Total Inlet |
| 296186-014 | Total Inlet |
| 296186-015 | 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.
Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.





*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

| | | | |
|---|---|---|---|
| Sample #: | 296186-001 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-1 |
| Collect Date: | 12/06/11 | Site: | |
| Collect Time: | 02:05 PM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1121622 | |
| TPH Gasoline Vppm | | 6900 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1121621 | |
| Benzene Vppm | | 150 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | | 26 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 120 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | | 230 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | | 77 | 100 | 3 | Vppm | 12/18/11 | sandyw |

ND = Not Deteced or < RDL

RDL = Reporting Detection Limit

DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-002 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-1 |
| Collect Date: | 12/06/11 | Site: | |
| Collect Time: | 08:00 PM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 7500 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 130 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 32 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 84 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 250 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 98 | 100 | 3 | Vppm | 12/18/11 | sandyw |

| | | | |
|---|---|---|---|
| Sample #: | 296186-003 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-1 |
| Collect Date: | 12/07/11 | Site: | |
| Collect Time: | 04:00 AM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1121622 | |
| TPH Gasoline Vppm | | 6500 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1121621 | |
| Benzene Vppm | | 120 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | | 24 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 79 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | | 220 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | | 72 | 100 | 3 | Vppm | 12/18/11 | sandyw |

ND = Not Deteced or < RDL

RDL = Reporting Detection Limit

DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-004 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-3 |
| Collect Date: | 12/07/11 | Site: | |
| Collect Time: | 09:05 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 10000 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 180 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 35 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 93 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 310 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 100 | 100 | 3 | Vppm | 12/18/11 | sandyw |

ND = Not Deteced or < RDL

RDL = Reporting Detection Limit

DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-005 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-3 |
| Collect Date: | 12/07/11 | Site: | |
| Collect Time: | 11:00 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 15000 | 125 | 625 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 180 | 125 | 1.25 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 49 | 125 | 1.25 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 330 | 125 | 12.5 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 320 | 125 | 1.25 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 110 | 125 | 3.75 | Vppm | 12/18/11 | sandyw |

ND = Not Deteced or < RDL  RDL = Reporting Detection Limit  DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-006 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-3 |
| Collect Date: | 12/07/11 | Site: | |
| Collect Time: | 04:00 PM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1121622 | |
| TPH Gasoline Vppm | | 9200 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1121621 | |
| Benzene Vppm | | 120 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | | 54 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 210 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | | 330 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | | 140 | 100 | 3 | Vppm | 12/18/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-007 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-3 |
| Collect Date: | 12/08/11 | Site: | |
| Collect Time: | 04:00 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 10000 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 120 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 51 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 240 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 260 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 130 | 100 | 3 | Vppm | 12/18/11 | sandyw |

ND = Not Deteced or < RDL

RDL = Reporting Detection Limit

DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-008 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-2 |
| Collect Date: | 12/08/11 | Site: | |
| Collect Time: | 09:30 AM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1121622 | |
| TPH Gasoline Vppm | | 2100 | 25 | 125 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1121621 | |
| Benzene Vppm | | 25 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | | 8.7 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 17 | 25 | 2.5 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | | 64 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | | 27 | 25 | 0.75 | Vppm | 12/18/11 | sandyw |

| | | | |
|---|---|---|---|
| Sample #: | 296186-009 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-2 |
| Collect Date: | 12/08/11 | Site: | |
| Collect Time: | 11:30 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B Prep Method: | Method | | | QCBatchID: | QC1121622 | |
| TPH Gasoline Vppm | 1800 | 25 | 125 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B Prep Method: | Method | | | QCBatchID: | QC1121621 | |
| Benzene Vppm | 21 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 5.7 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 41 | 25 | 2.5 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 68 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 20 | 25 | 0.75 | Vppm | 12/18/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-010 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-2 |
| Collect Date: | 12/08/11 | Site: | |
| Collect Time: | 04:00 PM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 1900 | 25 | 125 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 22 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 6.3 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 43 | 25 | 2.5 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 75 | 25 | 0.25 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 21 | 25 | 0.75 | Vppm | 12/18/11 | sandyw |

| | | | |
|---|---|---|---|
| Sample #: | 296186-011 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-2 |
| Collect Date: | 12/09/11 | Site: | |
| Collect Time: | 04:00 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 2500 | 50 | 250 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 25 | 50 | 0.5 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 7.8 | 50 | 0.5 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 60 | 50 | 5 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 95 | 50 | 0.5 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 26 | 50 | 1.5 | Vppm | 12/18/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-012 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 12/09/11 | Site: | |
| Collect Time: | 09:00 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 7400 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 44 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 16 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 73 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 140 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 56 | 100 | 3 | Vppm | 12/18/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-013 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 12/10/11 | Site: | |
| Collect Time: | 08:00 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 6100 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 53 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 17 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 95 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 140 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 59 | 100 | 3 | Vppm | 12/18/11 | sandyw |

| | | | |
|---|---|---|---|
| Sample #: | 296186-014 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 12/11/11 | Site: | |
| Collect Time: | 08:00 AM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1121622 | |
| TPH Gasoline Vppm | | 6000 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1121621 | |
| Benzene Vppm | | 56 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | | 18 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 33 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | | 140 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | | 61 | 100 | 3 | Vppm | 12/18/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 296186-015 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 12/12/11 | Site: | |
| Collect Time: | 08:00 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1121622 | | |
| TPH Gasoline Vppm | 7400 | 100 | 500 | Vppm | 12/18/11 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1121621 | | |
| Benzene Vppm | 61 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Ethylbenzene Vppm | 18 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 120 | 100 | 10 | Vppm | 12/18/11 | sandyw |
| Toluene Vppm | 160 | 100 | 1 | Vppm | 12/18/11 | sandyw |
| Xylenes (Total) Vppm | 65 | 100 | 3 | Vppm | 12/18/11 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

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

# Chain of Custody Record

Lab Job No. 296186
Page 1 of 1

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| COMPANY | CalClean Inc. | PROJECT NAME: | GOOD CHEVROLET |
| SEND REPORT TO: | 3002 Dow, #142 Tustin, CA 92780 | NUMBER: | |
| EMAIL: | | ADDRESS: | 1630 PARK ST ALAMEDA, CA |
| ADDRESS: | NOEL SHENOI | P.O. #: | |
| PHONE: Phone | (714) 734-9137 | SAMPLED BY: | |
| Fax | (714) 734-9138 | | |

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

| | Sample ID | Date | Time | Matrix | Container Number/Size | Pres. | ANALYSIS REQUEST: TPH-G (8015) | BTEX/MTBE (8021) | BTEX/OXYS (8260B) | Test Instructions & Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DPE-1 | 12/06/11 | 1405 | AIR | TEDLAR | NONE | X | X | | |
| 2 | DPE-1 | 12/06/11 | 2000 | | | | | | | |
| 3 | DPE-1 | 12/07/11 | 0400 | | | | | | | |
| 4 | DPE-3 | | 0905 | | | | | | | |
| 5 | DPE-3 | | 1100 | | | | | | | |
| 6 | DPE-3 | | 1600 | | | | | | | |
| 7 | DPE-3 | 12/08/11 | 0400 | | | | | | | |
| 8 | DPE-2 MK | | 0930 | | | | | | | |
| 9 | DPE-2 | | 1130 | | | | | | | |
| 10 | DPE-2 | | 1600 | | | | | | | also email KKing |
| 11 | DPE-2 | 12/09/11 | 0400 | | | | | | | |
| 12 | Total Inlet | | 0900 | | | | | | | |
| 13 | Total Inlet | 12/10/11 | 0800 | | | | | | | EDF |
| 14 | Total Inlet | 12/11/11 | 0800 | | | | | | | T0600100655 |
| 15 | Total Inlet | 12/12/11 | 0800 | | | | | | | AIR = PPMV |

Total No. of Samples: 15 Method of Shipment:

Preservative: 1= Ice 2 =HCl 3 =$HNO_3$ 4 =$H_2SO_4$ 5 =NaOH 6 =Other

| Relinquished by 1. | Received By: 1. | Relinquished by 2. | Received By: 2. | Relinquished by 3. | Received By: 3. |
|---|---|---|---|---|---|
| Signature: Noel Shenoi | Signature: Daniel Lee | Signature: | Signature: | Signature: | Signature: |
| Printed Name: NOEL SHENOI | Printed Name: Daniel Lee | Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| Date: 12/13/11 Time: | Date: 12/13/11 Time: 1233 | Date: Time: | Date: Time: | Date: Time: | Date: Time: |

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

**Associated Laboratories**
*806 N. Batavia - Orange, CA 92868*
*Tel (714)771-6900 Fax (714)538-1209*
*www.associatedlabs.com*
*Info@associatedlabs.com*

ACCREDITED IN ACCORDANCE WITH nelac

Client: Calclean
Address: 3002 Dow Ave.
#142
Tustin, CA 92780
Attn: Noel Shenoi

Lab Request: 297267
Report Date: 01/16/2012
Date Received: 01/04/2012

Client ID: 9977

Comments: Good Chevrolet
1630 Park Street, Alameda
Global ID: T0600100655

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 indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

| Sample # | Client Sample ID |
|---|---|
| 297267-001 | Total Inlet |
| 297267-002 | Total Inlet |
| 297267-003 | DPE-1 |
| 297267-004 | DPE-2 |
| 297267-005 | DPE-3 |

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.
Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.





*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

| | | | |
|---|---|---|---|
| Sample #: | 297267-001 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 12/22/11 | Site: | |
| Collect Time: | 01:00 PM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1122272 | | |
| TPH Gasoline Vppm | 3800 | 50 | 250 | Vppm | 01/07/12 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1122273 | | |
| Benzene Vppm | 48 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Ethylbenzene Vppm | 27 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 56 | 50 | 5 | Vppm | 01/07/12 | sandyw |
| Toluene Vppm | 62 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Xylenes (Total) Vppm | 87 | 50 | 1.5 | Vppm | 01/07/12 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 297267-002 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 12/30/11 | Site: | |
| Collect Time: | 03:55 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1122272 | | |
| TPH Gasoline Vppm | 4300 | 50 | 250 | Vppm | 01/07/12 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1122273 | | |
| Benzene Vppm | 39 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Ethylbenzene Vppm | 21 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 12 | 50 | 5 | Vppm | 01/07/12 | sandyw |
| Toluene Vppm | 36 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Xylenes (Total) Vppm | 66 | 50 | 1.5 | Vppm | 01/07/12 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 297267-003 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-1 |
| Collect Date: | 12/30/11 | Site: | |
| Collect Time: | 04:00 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1122272 | | |
| TPH Gasoline Vppm | 3300 | 50 | 250 | Vppm | 01/07/12 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1122273 | | |
| Benzene Vppm | 27 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Ethylbenzene Vppm | 12 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 11 | 50 | 5 | Vppm | 01/07/12 | sandyw |
| Toluene Vppm | 38 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Xylenes (Total) Vppm | 36 | 50 | 1.5 | Vppm | 01/07/12 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 297267-004 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-2 |
| Collect Date: | 12/30/11 | Site: | |
| Collect Time: | 04:05 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| **Method:** EPA 8015B **Prep Method:** Method | | | | **QCBatchID:** QC1122272 | | |
| TPH Gasoline Vppm | 3100 | 50 | 250 | Vppm | 01/07/12 | sandyw |
| **Method:** EPA 8021B **Prep Method:** Method | | | | **QCBatchID:** QC1122273 | | |
| Benzene Vppm | 50 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Ethylbenzene Vppm | 15 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 55 | 50 | 5 | Vppm | 01/07/12 | sandyw |
| Toluene Vppm | 55 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Xylenes (Total) Vppm | 43 | 50 | 1.5 | Vppm | 01/07/12 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 297267-005 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-3 |
| Collect Date: | 12/30/11 | Site: | |
| Collect Time: | 04:10 AM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1122272 | | |
| TPH Gasoline Vppm | 3300 | 50 | 250 | Vppm | 01/07/12 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1122273 | | |
| Benzene Vppm | 62 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Ethylbenzene Vppm | 20 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 58 | 50 | 5 | Vppm | 01/07/12 | sandyw |
| Toluene Vppm | 64 | 50 | 0.5 | Vppm | 01/07/12 | sandyw |
| Xylenes (Total) Vppm | 55 | 50 | 1.5 | Vppm | 01/07/12 | sandyw |

**ND = Not Deteced or < RDL** **RDL = Reporting Detection Limit** DF = Dilution Factor

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

# Chain of Custody Record

Lab Job No. 297267
Page 1 of 1

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| COMPANY | CalClean Inc. | PROJECT NAME: | GOOD CHEVROLET |
| SEND REPORT TO: | 3002 Dow, #142 Tustin, CA 92780 | NUMBER: | |
| EMAIL: | | ADDRESS: | 1630 PARK ST ALAMEDA, CA |
| ADDRESS: | NOEL SHENOI | P.O. #: | |
| Phone | (714) 734-9137 | SAMPLED BY: | |
| PHONE: Fax | (714) 734-9138 | | |

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

| | Sample ID | Date | Time | Matrix | Container Number/Size | Pres. | ANALYSIS REQUEST: TPH-G (8015) | BTEX/MTBE (8021) | BTEX/OXYS (8260B) | Test Instructions & Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Total Inlet | 12/22/11 | 1300 | AIR | TEDLAR | NONE | X | X | | |
| 2 | Total Inlet | 12/30/11 | 0355 | | | | | | | |
| 3 | DPE-1 | | 0400 | | | | | | | |
| 4 | DPE-2 | | 0405 | | | | | | | |
| 5 | DPE-3 | | 0410 | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | also email KKing |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | EDF |
| 15 | | | | | | | | | | TO 600100655 |
| | | | | | | | | | | AIR = PPMV |

Total No. of Samples: 5 Method of Shipment:

Preservative: 1= Ice 2 =HCl 3 =$HNO_3$ 4 =$H_2SO_4$ 5 =NaOH 6 =Other

| Relinquished by 1. | Received By: 1. | Relinquished by 2. | Received By: 2. | Relinquished by 3. | Received By: 3. |
|---|---|---|---|---|---|
| Signature: Noel Shenoi | Signature: M. Eshu | Signature: | Signature: | Signature: | Signature: |
| Printed Name: NOEL SHENOI | Printed Name: | Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| Date: 1/4/12 Time: 16:25 | Date: 01/04/12 Time: 16:25 | Date: Time: | Date: Time: | Date: Time: | Date: Time: |

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

**Associated Laboratories**
*806 N. Batavia - Orange, CA 92868*
*Tel (714)771-6900 Fax (714)538-1209*
*www.associatedlabs.com*
*Info@associatedlabs.com*

ACCREDITED IN ACCORDANCE WITH nelac

Client: Calclean
Address: 3002 Dow Ave.
#142
Tustin, CA 92780
Attn: Noel Shenoi

Lab Request: 297588
Report Date: 01/16/2012
Date Received: 01/11/2012

Client ID: 9977

Comments: Good Chevrolet
1630 Park St., Alameda, CA
Global ID: T0600100655

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 indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

| Sample # | Client Sample ID |
|---|---|
| 297588-001 | Total Inlet |
| 297588-002 | Total Inlet |
| 297588-003 | MW-2 |
| 297588-004 | DPE-2 |
| 297588-005 | DPE-1 |

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.
Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.





*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

| | | | |
|---|---|---|---|
| Sample #: | 297588-001 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 01/06/12 | Site: | |
| Collect Time: | 08:00 AM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1122373 | |
| TPH Gasoline Vppm | | 1300 | 25 | 125 | Vppm | 01/12/12 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1122377 | |
| Benzene Vppm | | 17 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Ethylbenzene Vppm | | 15 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 14 | 25 | 2.5 | Vppm | 01/12/12 | sandyw |
| Toluene Vppm | | 93 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Xylenes (Total) Vppm | | 59 | 25 | 0.75 | Vppm | 01/12/12 | sandyw |

ND = Not Deteced or < RDL

RDL = Reporting Detection Limit

DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 297588-002 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | Total Inlet |
| Collect Date: | 01/09/12 | Site: | |
| Collect Time: | 04:45 PM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1122373 | |
| TPH Gasoline Vppm | | 1500 | 25 | 125 | Vppm | 01/12/12 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1122377 | |
| Benzene Vppm | | 22 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Ethylbenzene Vppm | | 19 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 18 | 25 | 2.5 | Vppm | 01/12/12 | sandyw |
| Toluene Vppm | | 110 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Xylenes (Total) Vppm | | 76 | 25 | 0.75 | Vppm | 01/12/12 | sandyw |

ND = Not Deteced or < RDL

RDL = Reporting Detection Limit

DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 297588-003 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | MW-2 |
| Collect Date: | 01/06/12 | Site: | |
| Collect Time: | 04:50 PM | Collector: | client |

| Compound | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: Method | | | QCBatchID: QC1122373 | | |
| TPH Gasoline Vppm | 1000 | 25 | 125 | Vppm | 01/12/12 | sandyw |
| Method: EPA 8021B | Prep Method: Method | | | QCBatchID: QC1122377 | | |
| Benzene Vppm | 9.0 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Ethylbenzene Vppm | 15 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | 13 | 25 | 2.5 | Vppm | 01/12/12 | sandyw |
| Toluene Vppm | 74 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Xylenes (Total) Vppm | 61 | 25 | 0.75 | Vppm | 01/12/12 | sandyw |

ND = Not Deteced or < RDL

RDL = Reporting Detection Limit

DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 297588-004 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-2 |
| Collect Date: | 01/06/12 | Site: | |
| Collect Time: | 04:55 PM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1122373 | |
| TPH Gasoline Vppm | | 1700 | 25 | 125 | Vppm | 01/12/12 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1122377 | |
| Benzene Vppm | | 28 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Ethylbenzene Vppm | | 19 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 22 | 25 | 2.5 | Vppm | 01/12/12 | sandyw |
| Toluene Vppm | | 130 | 50 | 0.5 | Vppm | 01/12/12 | sandyw |
| Xylenes (Total) Vppm | | 77 | 25 | 0.75 | Vppm | 01/12/12 | sandyw |

ND = Not Deteced or < RDL

RDL = Reporting Detection Limit

DF = Dilution Factor

| | | | |
|---|---|---|---|
| Sample #: | 297588-005 | Client: | Calclean |
| Matrix: | Air | Client Sample #: | DPE-1 |
| Collect Date: | 01/06/12 | Site: | |
| Collect Time: | 05:00 PM | Collector: | client |

| Compound | | Result | DF | RDL | Units | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| Method: EPA 8015B | Prep Method: | Method | | | QCBatchID: | QC1122373 | |
| TPH Gasoline Vppm | | 1600 | 25 | 125 | Vppm | 01/12/12 | sandyw |
| Method: EPA 8021B | Prep Method: | Method | | | QCBatchID: | QC1122377 | |
| Benzene Vppm | | 24 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Ethylbenzene Vppm | | 20 | 25 | 0.25 | Vppm | 01/12/12 | sandyw |
| Methyl-t-butyl Ether (MTBE) Vppm | | 18 | 25 | 2.5 | Vppm | 01/12/12 | sandyw |
| Toluene Vppm | | 120 | 50 | 0.5 | Vppm | 01/12/12 | sandyw |
| Xylenes (Total) Vppm | | 80 | 25 | 0.75 | Vppm | 01/12/12 | sandyw |

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

# Chain of Custody Record

Lab Job No. 297588
Page 1 of 1

| CUSTOMER INFORMATION | | PROJECT INFORMATION | |
|---|---|---|---|
| COMPANY | CalClean Inc. | PROJECT NAME: | GOOD CHEVROLET |
| SEND REPORT TO: | 3002 Dow, #142 Tustin, CA 92780 | NUMBER: | |
| EMAIL: | | ADDRESS: | 1630 PARK ST ALAMEDA, CA |
| ADDRESS: | NOEL SHENOI | P.O. #: | |
| Phone | (714) 734-9137 | SAMPLED BY: | |
| PHONE: Fax | (714) 734-9138 | | |

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

| | Sample ID | Date | Time | Matrix | Container Number/Size | Pres. | ANALYSIS REQUEST: TPH-G (8015) | BTEX/MTBE (8021) | Test Instructions & Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Total Inlet | 1/6/12 | 0800 | AIR | TEDLAR | NONE | X | X | |
| 2 | Total Inlet | 1/9/12 | 1645 | | | | | | |
| 3 | MW-2 | | 1650 | | | | | | |
| 4 | DPE-2 | | 1655 | | | | | | |
| 5 | DPE-1 | | 1700 | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | also email KKing |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | EDF |
| 15 | | | | | | | | | TO 600100655 |
| | | | | | | | | | AIR = PPMV |

Total No. of Samples: 5 Method of Shipment:

Preservative: 1= Ice 2 =HCl 3 =$HNO_3$ 4 =$H_2SO_4$ 5 =NaOH 6 =Other

| Relinquished by 1. | Received By: 1. | Relinquished by 2. | Received By: 2. | Relinquished by 3. | Received By: 3. |
|---|---|---|---|---|---|
| Signature: Noel Shenoi | Signature: M. Eckert | Signature: | Signature: | Signature: | Signature: |
| Printed Name: NOEL SHENOI | Printed Name: | Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| Date: 1/11/12 Time: 15:17 MS | Date: 01/11/12 Time: 15.17 | Date: Time: | Date: Time: | Date: Time: | Date: Time: |

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

# ATTACHMENT 2

# HIGH VACUUM DUAL PHASE EXTRACTION SYSTEM
# FIELD DATA SHEETS

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/5/2011 Page 1A of 19

Client: **BUESTAD** Operator (s): Nick

## EXTRACTION WELLS

| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | 8.61 | | | 7.73 | | | 8.75 | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals |
| 12/05 | | | | | ON | | 13.5 | OFF | | 12 | OFF | | 13 | | | | | | | | |
| 1015 | 24 | 35 | 1462 | 11560 | | | | | | | | | | | | | | | | 12380 | 0 |
| 1017 | | | | | OFF | | | ON | | | | | | | | | | | | | |
| 1030 | 24 | 37 | 1452 | 6740 | | | | | | | | | | | | | | | | | |
| 1032 | | | | | | | | OFF | | | ON | | | | | | | | | | |
| 1040 | 24 | 36 | 1458 | 8710 | | | | | | | | | | | | | | | | | |
| 1047 | | | | | ON | | | ON | | | | | | | | | | | | | |
| 1050 | 22 | 97 | 1447 | 9510 | | | | | | | | | | | | | | | | | |
| 1200 | 22 | 98 | 1443 | 9230 | OFF | | | OFF | | | OFF | | | | | | | | | | |
| 12/06 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | 8.81 | | | 7.92 | | | | | | | | | | | | |
| 0800 | | | | | ON | VAC | 5" | | | | | 9.29 | | | | | | | | | |
| 1140 | 23 | 31 | 1452 | 5610 | | 17 | | | VAC | | | VAC | | | | | | | | 12410 | 20 |
| 1210 | 25 | 34 | 1453 | 5040 | | 16 | | | | | | | | | | | | | | | |
| 1230 | 25 | 33 | 1451 | 5830 | | 16 | | | | | | | | | | | | | | | |
| 1300 | 25 | 30 | 1455 | 6390 | | 16 | | | | | | | | | | | | | | | |
| 1330 | 25 | 31 | 1454 | 5920 | | 16 | | | | | | | | | | | | | | | |
| 1400 | 25 | 32 | 1449 | 7790 | | 16 | | | | | | | | | | | | | | | |
| 1430 | 25 | 34 | 1455 | 7640 | | 14 | 13.5 | | | | | | | | | | | | | | |
| 1500 | 25 | 33 | 1449 | 6930 | | 14 | | 0.32 | 7.99 | | 0.24 | 9.31 | | | | | | | | | |
| 1530 | 25 | 31 | 1447 | 6910 | | 12 | | 0.76 | 7.98 | | 0.31 | 9.37 | | | | | | | | | |

Comments: 12/05 - START UP UNIT @1000, STARTING $H_2O$ METER - 12380. VAPOR SAMPLES TAKEN AS FOLLOWS - DPE-1 @ 1015, DPE-3 @ 1030, DPE-2 @ 1040, TOTAL INLET @ 1050. EFF $H_2O$ SAMPLES TAKEN @ 1145. 1200 SHUT UNIT

12/6 - 1100 START UP UNIT. DPE-1 VAPOR SAMPLE TAKEN @ 1405.

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/6/2011 Page 2A of 19

Client: **BUESTAD** Operator (s): NICK

## EXTRACTION WELLS

| | Well I.D. | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | | | Water Meter Readings | Cumul. Water Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | |
| Time | Unit Vacuum ("Hg.) | Air Flowrate (cfm) | TOX Temp. (degF) | Vapor Inlet Conc. (ppmv) | Off/On (ppmv) | DTW VAC Hg (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units | gals |
| 12/06 | | | | | ON | VAC | 13.5 | | | | VAC | | | | | | | | | | |
| 1600 | 25 | 31 | 1447 | 6730 | | 12 | | 0.31 | 8.37 | | 0.31 | 9.42 | | | | | | | | | |
| 2000 | 25 | 38 | 1442 | 6810 | | 12 | | 0.29 | 8.37 | | 0.30 | 9.41 | | | | | | | | | |
| 12/07 | | - | | | | | | | | | | | | | | | | | | | |
| 0001 | 25 | 32 | 1448 | 6970 | | 10 | | 0.26 | 8.34 | | 0.25 | 9.48 | | | | | | | | | |
| 0400 | 25 | 34 | 1449 | 6930 | | 10 | | 0.27 | 8.39 | | 0.27 | 9.51 | | | | | | | | | |
| 0800 | 25 | 37 | 1448 | 6410 | | 10 | | 0.39 | 8.42 | | 0.73 | 9.61 | | | | | | | | 13140 | 730 |
| 0855 | | | | | OFF VAC | | | ON | VAC | 5' | - | | | | | | | | | | |
| 0900 | 25 | 38 | 1453 | 8130 | 0.30 | | | | 12 | | 0.34 | | | | | | | | | | |
| 0930 | 25 | 34 | 1451 | 9930 | 0.25 | | | | 12 | | 0.36 | | | | | | | | | | |
| 1000 | 25 | 31 | 1451 | 10670 | 0.25 | | | | 13 | | 0.75 | | | | | | | | | | |
| 1030 | 25 | 37 | 1446 | 10390 | 0.26 | | | | 13 | | 0.80 | | | | | | | | | | |
| 1100 | 25 | 33 | 1445 | 11540 | 0.28 | | | | 13 | | 0.85 | | | | | | | | | | |
| 1130 | 25 | 32 | 1456 | 12810 | 0.26 | 10.73 | | | 13 | 12' | 0.92 | 11.82 | | | | | | | | | |
| 1200 | 25 | 34 | 1451 | 11370 | 0.25 | 10.77 | | | 13 | | 0.90 | 11.85 | | | | | | | | | |
| 1230 | 25 | 31 | 1454 | 11920 | 0.28 | 10.72 | | | 13 | | 0.92 | 11.89 | | | | | | | | | |
| 1300 | 25 | 32 | 1456 | 10730 | 0.25 | 10.77 | | | 13 | | 0.94 | 11.93 | | | | | | | | | |
| 1400 | 25 | 31 | 1451 | 10510 | 0.27 | 10.81 | | | 13 | | 0.97 | 11.94 | | | | | | | | | |
| 1500 | 25 | 32 | 1451 | 10930 | 0.29 | 10.83 | | | 12 | | 1.06 | 11.97 | | | | | | | | | |
| 1600 | 25 | 34 | 1448 | 10870 | 0.30 | 10.84 | | | 12 | | 1.11 | 11.99 | | | | | | | | | |
| 2000 | 25 | 31 | 1447 | 10410 | 0.35 | 10.88 | | | 11 | | 1.27 | 12.03 | | | | | | | | 13450 | 1070 |

Comments: 12/6- DPE-1 VAPOR SAMPLES TAKEN @ 2000.

12/7- VAPOR SAMPLES TAKEN AS FOLLOWS- DPE-1 @ 0400, DPE-3 @ 0905, 1100, 1600.

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/8/2011 Page 31 of 19

Client: **BUESTAD** Operator (s): NICK

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| 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 (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On VAC (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units | gals |
| 12/8 | | | | | OFF | | | ON | | | OFF | | | | | | | | | | |
| 0001 | 25 | 31 | 1451 | 10110 | 0.31 | 10.93 | | | 10 | | 1.34 | 12.10 | | | | | | | | | |
| 0400 | 25 | 33 | 1453 | 9630 | 0.37 | 10.99 | | | 8 | | 1.45 | 12.17 | | | | | | | | | |
| 0800 | 25 | 30 | 1451 | 9240 | 0.48 | 11.04 | | | 8 | | 1.55 | 12.28 | | | | | | | | 137160 | 1380 620 |
| | | | | | | | | OFF/VAC | | | ON | | 5' | | | | | | | | |
| 0830 | 25 | 31 | 1452 | 6370 | 0.45 | | | 1.15 | | | 14 | | | | | | | | | | |
| 0900 | 25 | 30 | 1451 | 6640 | 0.45 | | | 1.15 | | | 14 | | | | | | | | | | |
| 0930 | 25 | 30 | 1451 | 6810 | 0.45 | | | 1.10 | | | 14 | | | | | | | | | | |
| 1000 | 25 | 31 | 1450 | 7340 | 0.45 | | | 1.15 | | | 14 | | | | | | | | | | |
| 1030 | 25 | 32 | 1454 | 7260 | 0.45 | | | 1.15 | | | 13 | | | | | | | | | | |
| 1100 | 24 | 39 | 1451 | 7490 | 0.45 | 11.17 | | 1.15 | 10.98 | | 12 | | 13' | | | | | | | | |
| 1130 | 24 | 38 | 1452 | 8230 | 0.45 | 11.19 | | 1.20 | 10.99 | | 12 | | | | | | | | | | |
| 1200 | 24 | 36 | 1451 | 8170 | 0.40 | 11.11 | | 1.20 | 11.03 | | 12 | | | | | | | | | | |
| 1230 | 24 | 37 | 1447 | 7940 | 0.40 | 11.15 | | 1.15 | 11.07 | | 12 | | | | | | | | | | |
| 1300 | 24 | 38 | 1449 | 8340 | 0.40 | 11.16 | | 1.15 | 11.09 | | 12 | | | | | | | | | | |
| 1400 | 24 | 37 | 1447 | 8170 | 0.40 | 11.19 | | 1.05 | 11.10 | | 12 | | | | | | | | | | |
| 1500 | 23 | 41 | 1451 | 7940 | 0.40 | 11.18 | | 1.05 | 11.08 | | 12 | | | | | | | | | | |
| 1600 | 23 | 44 | 1453 | 7530 | 0.35 | 11.17 | | 1.00 | 11.07 | | 12 | | | | | | | | | | |
| 2000 | 23 | 43 | 1449 | 6720 | 0.35 | 11.16 | | 0.70 | 11.05 | | 12 | | | | | | | | | 140720 | 11640 570 |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Comments: 12/8 - VAPOR SAMPLES AS FOLLOWS - DPE-3 @ 0400, DPE-2 @ 0930, 1130, 1600.

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/9/2011 Page 4A of 19

Client: **BUESTAD** Operator (s): NICK

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted | |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 12/9 | | | | | OFF | | 13.5 | OFF | | 12 | ON | | 13' | | | | | | | | | |
| 0001 | 23 | 42 | 1448 | 5710 | 0.35 | 11.19 | | 0.50 | 11.03 | | 10 | | | | | | | | | | | |
| 0400 | 23 | 43 | 1451 | 4930 | 0.30 | 11.13 | | 0.75 | 11.04 | | 8 | | | | | | | | | | | |
| 0800 | 23 | 46 | 1455 | 2670 | 0.30 | 11.10 | | 0.00 | 11.00 | | 8 | | | | | | | | | 14190 | 1810 | 430 |
| 0830 | | | | | ON | | 13.5 | ON | | 12 | | | | | | | | | | | | |
| 0900 | 21 | 124 | 1442 | 5380 | | | | | | | | | | | | | | | | | | |
| 1000 | 21 | 121 | 1448 | 6140 | | | | | | | | | | | | | | | | | | |
| 1100 | 21 | 123 | 1449 | 6970 | | | | | | | | | | | | | | | | | | |
| 1200 | 21 | 128 | 1455 | 7830 | | VAC | | | VAC | | | VAC | | | | | | | | | | |
| 1600 | 21 | 124 | 1451 | 8270 | | 12 | | | 5 | | | 4 | | | | | | | | | | |
| 2000 | 21 | 129 | 1452 | 8140 | 6590 | 12 | | 10390 | 5 | | 6530 | 4 | | | | | | | | 14910 | 2530 | 890 |
| 12/10 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 21 | 127 | 1451 | 8610 | | 12 | | | 5 | | | 4 | | | | | | | | | | |
| 0800 | 21 | 123 | 1453 | 8530 | 6420 | 12 | | 10210 | 5 | | 5940 | 4 | | | | | | | | 15430 | 3050 | 1240 |
| 1200 | 21 | 125 | 1457 | 8970 | | 12 | | | 5 | | | 4 | | | | | | | | | | |
| 1600 | 21 | 124 | 1452 | 8410 | | 12 | | | 5 | | | 3 | | | | | | | | | | |
| 2000 | 21 | 128 | 1453 | 8160 | 6170 | 12 | | 10110 | 5 | | 5510 | 4 | | | | | | | | 16180 | 3800 | 1270 |
| 12/11 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 21 | 121 | 1451 | 7920 | | 12 | | | 5 | | | 3 | | | | | | | | | | |
| 0800 | 21 | 126 | 1448 | 8230 | 6040 | 12 | | 10230 | 4 | | 5140 | 4 | | | | | | | | 16670 | 4290 | 1240 |
| 1200 | 21 | 124 | 1449 | 8040 | | 12 | | | 5 | | | 4 | | | | | | | | | | |

Comments: 12/9 - VAPOR SAMPLES TAKEN AS FOLLOWS - DPE-2 @ 0400, TOTAL INLET @ 0900.
12/10 - TOTAL INLET SAMPLE @ 0800.
12/11 - TOTAL INLET SAMPLE @ 0800

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/11/2011 Page 54 of 19

Client: **BUESTAD** Operator (s): NICK

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted | |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| Time | Unit Vacuum ("Hg.) | Air Flowrate (cfm) | TOX Temp. (degF) | Vapor Inlet Conc. (ppmv) | Off/On (ppmv) | VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 12/11 | | | | | ON | "HG | 13.5 | ON | "HG | 12 | ON | "HG | 13 | | | | | | | | | |
| 1600 | 21 | 125 | 1443 | 7980 | | 12 | | | 5 | | | 4 | | | | | | | | | | |
| 2000 | 21 | 123 | 1447 | 7530 | 5910 | 12 | | 10040 | 5 | | 4910 | 4 | | | | | | | | 174160 | 5080 | 1280 |
| 12/12 | | - | | | | | | | | | | | | | | | | | | | | |
| 0001 | 21 | 128 | 1451 | 7410 | | 12 | | | 5 | | | 4 | | | | | | | | | | |
| 0800 | 21 | 124 | 1452 | 7230 | 5720 | 12 | | 9820 | 5 | | 4460 | 4 | | | | | | | | 179160 | 5580 | 1290 |
| 0930 | | | | | OFF | | | OFF | | | OFF | | | | | | | | | | | |
| 1030 | 23 | 93 | 1451 | 5930 | ON | | | ON | | | ON | | | | | | | | | | | |
| 1045 | 23 | 97 | 1455 | 6170 | 6140 | 12 | | 8930 | 5 | | 4140 | 3 | | | | | | | | | | |
| 1200 | 23 | 95 | 1453 | 6020 | 5010 | 12 | | 8340 | 5 | | 3970 | 3 | | | | | | | | | | |
| 1600 | 21 | 128 | 1451 | 5970 | | 11 | | | 5 | | | 3 | | | | | | | | | | |
| 2000 | 21 | 129 | 1452 | 6240 | 5170 | 11 | | 8410 | 4 | | 4010 | 3 | | | | | | | | 18530 | 6150 | 1070 |
| 12/13 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 20 | 132 | 1449 | 6510 | | 10 | | | 4 | | | 3 | | | | | | | | | | |
| 0800 | 19 | 147 | 1447 | 6830 | 5540 | 9 | | 8670 | 4 | | 3910 | 3 | | | | | | | | 19100 | 6720 | 1140 |
| 1200 | 19 | 143 | 1443 | 6670 | | 9 | | | 4 | | | 3 | | | | | | | | | | |
| 1600 | 19 | 142 | 1448 | 6510 | | 9 | | | 4 | | | 3 | | | | | | | | | | |
| 2000 | 19 | 144 | 1449 | 6380 | 5240 | 9 | | 8430 | 4 | | 3520 | 3 | | | | | | | | 20240 | 7860 | 1710 |
| 12/14 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 19 | 148 | 1453 | 6110 | | 9 | | | 4 | | | 3 | | | | | | | | | | |
| 0800 | 19 | 145 | 1451 | 5920 | 4970 | 9 | | 8210 | 4 | | 3110 | 3 | | | | | | | | 21520 | 9140 | 2420 |

Comments: 12/12 - TOTAL INLET SAMPLE TAKEN @ 0800. SHUT DOWN UNIT @ 0930 FOR GEN. MAINT. START UP UNIT @ 1025.

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/14/2011 Page 6A of 19

Client: **BUESTAD** Operator (s): NICK / DAVIS

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| Time | Unit Vacuum ("Hg.) | Air Flowrate (cfm) | TOX Temp. (degF) | Vapor Inlet Conc. (ppmv) | Off/On (ppmv) | VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 12/14 | | | | | ON | "HG | 13.5 | ON | "HG | 12 | ON | "HG | 13 | | | | | | | | | |
| 1200 | 19 | 147 | 1449 | 5730 | | 9 | | | 4 | | | 2 | | | | | | | | | | |
| 1600 | 19 | 142 | 1451 | 5570 | | 9 | | | 4 | | | 2 | | | | | | | | | | |
| 2000 | 19 | 148 | 1453 | 5140 | 4530 | 9 | | 7640 | 4 | | 2970 | 2 | | | | | | | | 22470 | 10090 | 2230 |
| 12/15 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 18 | 151 | 1451 | 4930 | | 9 | | | 4 | | | 2 | | | | | | | | | | |
| 0800 | 18 | 153 | 1451 | 4410 | 3960 | 9 | | 6930 | 4 | | 2610 | 2 | | | | | | | | 23280 | 10900 | 1760 |
| 1200 | 18 | 154 | 1453 | 4230 | | 9 | | | 4 | | | 3 | | | | | | | | | | |
| 1600 | 18 | 152 | 1457 | 4370 | | 9 | | | 4 | | | 3 | | | | | | | | | | |
| 2000 | 20 | 136 | 1452 | 4920 | 5270 | 10 | | 6740 | 5 | | 2230 | 3 | | | | | | | | 24565 | 11985 | |
| 12/16 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 19 | 137 | 1448 | 4930 | | | | | | | | | | | | | | | | | | |
| 0800 | 20 | 138 | 1450 | 4890 | 5240 | 10 | | 6700 | 4 | | 2260 | 3 | | | | | | | | 25460 | 13080 | |
| 1200 | 20 | 136 | 1451 | 4830 | | | | | | | | | | | | | | | | | | |
| 1600 | 20 | 139 | 1455 | 4840 | | | | | | | | | | | | | | | | | | |
| 2000 | 19 | 137 | 1455 | 4710 | 4820 | 10 | | 6640 | 4 | | 2310 | 3 | | | | | | | | 26550 | 14170 | |
| 12/17 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 19 | 148 | 1450 | 4530 | | | | | | | | | | | | | | | | | | |
| 0800 | 18 | 151 | 1455 | 4350 | 4640 | 9 | | 6540 | 4 | | 2190 | 3 | | | | | | | | 27045 | 14665 | |
| 1200 | 18 | 153 | 1450 | 4390 | | 9 | | | | | | | | | | | | | | | | |
| 1600 | 18 | 151 | 1450 | 4310 | | 9 | | | | | | | | | | | | | | | | |

Comments: 12/15 - UNIT OFF FROM 1615 TO 1745 DUE TO POWER CHANGE FROM GEN TO POLE.

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/17/201_ Page 7A of 19

Client: **BUESTAD** Operator (s): DAVIS

## EXTRACTION WELLS

| | Well I.D. | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-3 | | | | | | Water Meter Readings | Cumul. Water Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | |
| Time | Unit Vacuum ("Hg.) | Air Flowrate (cfm) | TOX Temp. (degF) | Vapor Inlet Conc. (ppmv) | Off/On (ppmv) | ~~DTW~~ VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | ~~DTW~~ VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | ~~DTW~~ VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals |
| 12/17 | | | | | ON | | 13.5 | ON | | 12 | ON | | 13 | ON | | 3 | | | | | |
| 2000 | 18 | 153 | 1455 | 4230 | 4510 | 9 | | 6310 | 4 | | 2120 | 3 | | | | | | | | 28165 | 15785 |
| 12/18 | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 18 | 151 | 1450 | 4190 | | 9 | | | 4 | | | 3 | | | | | | | | | |
| 0800 | 18 | 154 | 1455 | 4120 | 4460 | 9 | | 6210 | 4 | | 2080 | 3 | | | | | | | | 28675 | 16295 |
| 1200 | 18 | 151 | 1450 | 4160 | | 9 | | | 4 | | | 3 | | | | | | | | | |
| 1600 | 18 | 154 | 1462 | 4070 | | 9 | | | 5 | | | 3 | | | | | | | | | |
| 2000 | 18 | 153 | 1460 | 4010 | 4360 | 9 | | 6170 | 4 | | 2040 | 3 | | | | | | | | 29175 | 16795 |
| 12/19 | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 18 | 154 | 1449 | 3930 | | 9 | | | 4 | | | 3 | | | | | | | | | |
| 0800 | 18 | 153 | 1450 | 3870 | 4120 | 9 | | 5760 | 3 | | 1980 | 3 | | | | | | | | 29669 | 17315 |
| 1200 | 18 | 156 | 1447 | 3750 | | 9 | | | 3 | | | 3 | | | | | | | | | |
| 1600 | 18 | 153 | 1450 | 3630 | | 9 | | | 3 | | | 3 | | | | | | | | | |
| 1615 | 14 | 190 | 1450 | 1820 | | 7 | | | 3 | | | 2 | | ON | 6 | 3' | | | | | |
| 1630 | 14 | 193 | 1459 | 1808 | | 6 | | | 3 | | | 1 | | | 6 | | | | | | |
| 1645 | 14 | 197 | 1459 | 1820 | | 6 | | | 3 | | | 1 | | | 5 | | | | | | |
| 1700 | 14 | 193 | 1441 | 1770 | | 5 | | | 2 | | | 1 | | | 5 | | | | | | |
| 1715 | 14 | 190 | 1450 | 1760 | | 4 | | | 2 | | | 1 | | | 5 | | | | | | |
| 1730 | 14 | 194 | 1455 | 1710 | | 4 | | | 2 | | | 1 | | | 5 | | | | | | |
| 1745 | 14 | 196 | 1449 | 1730 | | 4 | | | 2 | | | 1 | | | 5 | | | | | | |
| 1800 | 14 | 196 | 1450 | 1680 | | 4 | | | 2 | | | 1 | | | 5 | 16' | | | | | |

Comments: HOOK UP MW-3 @ 1600

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/19/2011 Page 8A of 19

Client: **BUESTAD** Operator (s): DAVIS

## EXTRACTION WELLS

| | | Well I.D. | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-3 | | | | | | Water Meter Readings | Cumul. Water Extracted |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | |
| | | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | |
| | Time | Unit Vacuum ("Hg.) | Air Flowrate (cfm) | TOX Temp. (degF) | Vapor Inlet Conc. (ppmv) | Off/On (ppmv) | ~~DTW~~ VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | ~~DTW~~ VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | ~~DTW~~ VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | ~~DTW~~ VAC (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units | gals |
| 12/19 | 1815 | 14 | 191 | 1450 | 1710 | ON | 2 | 13.5 | ON | 2 | 12 | ON | 1 | 13 | ON | 3 | 16' | | | | 12380 | |
| | 1830 | 14 | 193 | 1450 | 1740 | | 2 | | | 2 | | | 1 | | | 3 | | | | | | |
| | 1845 | 14 | 197 | 1445 | 1780 | | 2 | | | 2 | | | 1 | | | 3 | | | | | | |
| | 1900 | 14 | 194 | 1455 | 1830 | | 2 | | | 2 | | | 1 | | | 3 | | | | | | |
| | 1915 | 14 | 197 | 1450 | 1860 | | 2 | | | 2 | | | 1 | | | 3 | | | | | | |
| | 1930 | 14 | 193 | 1450 | 1910 | | 2 | | | 2 | | | 1 | | | 3 | | | | | | |
| | 1945 | 14 | 197 | 1449 | 1960 | | 2 | | | 2 | | | 1 | | | 3 | | | | | | |
| | 2000 | 14 | 196 | 1450 | 1970 | 3670 | 2 | | 4340 | 2 | | 1710 | 1 | | 1540 | 3 | | | | | 30209 X | 17829 |
| | 2100 | 14 | 194 | 1450 | 1940 | | 2 | | | 2 | | | 1 | | | 2 | | | | | | |
| | 2200 | 14 | 196 | 1449 | 1870 | | 2 | | | 2 | | | 1 | | | 2 | | | | | | |
| | 2300 | 14 | 196 | 1455 | 1890 | | 2 | | | 2 | | | 1 | | | 2 | | | | | | |
| | 2400 | 14 | 197 | 1450 | 1860 | | 2 | | | 2 | | | 1 | | | 2 | | | | | | |
| | 12/20 | | | | | | | | | | | | | | | | | | | | | |
| | 0001 | 14 | 196 | 1450 | 1820 | | 2 | | | 2 | | | 1 | | | 2 | | | | | | |
| | 0800 | 14 | 197 | 1450 | 1830 | 3450 | 2 | | 4460 | 2 | | 1520 | 1 | | 1390 | 2 | | | | | 30744 | 18364 |
| | 1200 | 14 | 195 | 1455 | 1780 | | 2 | | | 1 | | | 1 | | | 2 | | | | | | |
| | 1600 | 14 | 197 | 1450 | 1710 | | 2 | | | 1 | | | 1 | | | 2 | 0?? | | | | | |
| | 2000 | 16 | 153 | 1455 | 2470 | | 3 | | | 1 | | | 4 | | | | | | | | 31224 | 18814 |
| | 12/21 | | | | | | | | | | | | | | | | | | | | | |
| | 0001 | 16 | 157 | 1450 | 2140 | | 4 | flow | | 1 | F1 | | 4 | G1 | | | | | | | | |
| | 0800 | 15 | 158 | 1455 | 1780 | 2030 | 5 | 57 | 3740 | 1 | 30 | 1510 | 4 | 46 | | | | | | | 32410 | 20030 |

Comments:

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

**CalClean Inc.**

Project Location: 1630 PARK STREET City: ALMEDA Site #: GOOD CHEVROLET Date: 12/21/2011 Page 9A of 19

Client: BUESTAD Operator (s): DAVIS

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-3 | | | | | | Water Meter Readings | Cumul. Water Extracted |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units | gals |
| 12/21 | | | | | ON | | | ON | | | ON | | | OFF | | | | | | | |
| 0930 | 15 | 142 | 1450 | 1717 | | | | | 0 | | | | | | | | | | | | |
| 0945 | 15 | 147 | 1449 | 1706 | 2040 | 7 | 49 | 2330 | 0 | 30 | 1680 | 5 | 61 | | | | | | | | |
| 1000 | 15 | 147 | 1460 | 1672 | 1980 | 7 | 47 | 2130 | 0 | 30 | 1540 | 5 | 60 | | | | | | | | |
| 1015 | 15 | 147 | 1450 | 1682 | 1995 | 7 | 49 | 2150 | 0 | 30 | 1490 | 5 | 61 | | | | | | | | |
| 1030 | 15 | 149 | 1450 | 1630 | 1980 | 6 | 47 | 2150 | 0 | 31 | 1440 | 5 | 60 | | | | | | | | |
| 1045 | 15 | 149 | 1455 | 1608 | 1980 | 6 | 49 | 2130 | 0 | 31 | 1410 | 5 | 61 | | | | | | | | |
| 1100 | 15 | 147 | 1450 | 1637 | 1980 | 6 | 47 | 2140 | 0 | 30 | 1420 | 5 | 60 | | | | | | | | |
| 1115 | 15 | 149 | 1451 | 1638 | 1980 | 6 | 47 | 2130 | 0 | 31 | 1420 | 5 | 61 | | | | | | | | |
| 1130 | 15 | 147 | 1450 | 1593 | 1980 | 6 | 47 | 2140 | 0 | 31 | 1420 | 5 | 61 | | | | | | | | |
| 1145 | 15 | 149 | 1450 | 1550 | 1920 | 6 | 47 | 2080 | 0 | 31 | 1380 | 5 | 60 | | | | | | | | |
| 1200 | 15 | 147 | 1450 | 1560 | 1810 | 6 | 47 | 1960 | 0 | 31 | 1810 | 5 | 60 | | | | | | | | |
| 1300 | 15 | 149 | 1450 | 1610 | 1790 | 6 | 49 | 1860 | 0 | 30 | 1790 | 5 | 61 | | | | | | | | |
| 1400 | 15 | 149 | 1450 | 1730 | 1740 | 6 | 47 | 1860 | 0 | 30 | 1740 | 5 | 61 | | | | | | | | |
| 1500 | 15 | 148 | 1455 | 1670 | 1690 | 6 | 49 | 1810 | 0 | 31 | 1670 | 5 | 63 | | | | | | | | |
| 1600 | 15 | 149 | 1450 | 1640 | 1620 | 6 | 49 | 1780 | 0 | 30 | 1680 | 5 | 61 | | | | | | | | |
| 1700 | 15 | 151 | 1450 | 1650 | 1610 | 6 | 47 | 1660 | 0 | 31 | 1540 | 5 | 63 | | | | | | | | |
| 1800 | 15 | 150 | 1455 | 1620 | 1620 | 6 | 49 | 1540 | 0 | 30 | 1490 | 5 | 63 | | | | | | | | |
| 2000 | 15 | 149 | 1455 | 1630 | 1610 | 6 | 49 | 1550 | 0 | 31 | 1470 | 5 | 61 | | | | | | | | |
| 2200 | 15 | 151 | 1450 | 1610 | 1590 | 6 | 47 | 1520 | 0 | 31 | 1430 | 5 | 61 | | | | | | | | |
| 2400 | 15 | 149 | 1449 | 1590 | 1570 | 6 | 49 | 1510 | 0 | 30 | 1490 | 5 | 63 | | | | | | | | |

Comments:

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/22/2011 Page 10A of 19

Client: **BUESTAD** Operator (s): DAVID / NICK

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-3 | | | | | | Water Meter Readings | Cumul. Water Extracted |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| Time | Unit Vacuum ("Hg.) | Air Flowrate (cfm) | TOX Temp. (degF) | Vapor Inlet Conc. (ppmv) | Off/On (ppmv) | DTW VAC (ft) | Stinger Depth FLOW (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units | gals |
| 12/22 | | | | | ON | | | ON | | | ON | | | off | | | | | | | |
| 0800 | 15 | 151 | 1450 | 1470 | 1530 | 6 | 53 | 1470 | 0 | 30 | 1380 | 5 | 63 | | | | | | | | |
| 1200 | 15 | 151 | 1450 | 1410 | 1460 | 6 | 51 | 1380 | 0 | 31 | 1320 | 5 | 63 | | | | | | | | |
| 1300 | 18 | 89 | 1451 | 1380 | 1490 | 7 | 48 | off | | | 1374 | 5 | 62 | | | | | | | | |
| 1330 | 18 | 81 | 1461 | 1420 | 1490 | 7 | 49 | | | | 1398 | 5 | 67 | | | | | | | | |
| 1400 | 18 | 86 | 1453 | 1470 | 1530 | 7 | 45 | | | | 1391 | 5 | 64 | | | | | | | | |
| 1430 | 18 | 85 | 1452 | 1490 | 1530 | 7 | 44 | | | | 1422 | 6 | 51 | | | | | | | | |
| 1500 | 18 | 84 | 1449 | 1530 | 1550 | 7 | 48 | | | | 1437 | 6 | 53 | | | | | | | | |
| 1530 | 18 | 87 | 1448 | 1570 | 1550 | 7 | 43 | | | | 1449 | 6 | 54 | | | | | | | | |
| 1600 | 18 | 83 | 1443 | 1620 | 1590 | 7 | 44 | | | | 1468 | 6 | 52 | | | | | | | | |
| 1630 | 18 | 85 | 1451 | 1610 | 1580 | 7 | 41 | | | | 1471 | 6 | 54 | | | | | | | | |
| 1700 | 18 | 81 | 1450 | 1610 | 1580 | 7 | 42 | | | | 1459 | 6 | 51 | | | | | | | | |
| 1730 | 18 | 87 | 1451 | 1593 | 1570 | 7 | 40 | | | | 1464 | 5 | 61 | | | | | | | | |
| 1800 | 18 | 82 | 1453 | 1542 | 1561 | 6 | 51 | | | | 1451 | 5 | 63 | | | | | | | | |
| 1830 | 18 | 86 | 1457 | 1579 | 1553 | 6 | 53 | | | | 1448 | 5 | 67 | | | | | | | | |
| 1900 | 18 | 83 | 1452 | 1528 | 1548 | 6 | 57 | | | | 1437 | 5 | 64 | | | | | | | | |
| 1930 | 18 | 81 | 1449 | 1552 | 1576 | 5 | 61 | | | | 1452 | 5 | 68 | | | | | | | | |
| 2000 | 18 | 87 | 1449 | 1513 | 1574 | 5 | 64 | | | | 1429 | 5 | 62 | | | | | | | 33780 | 7,1400 |
| 2400 | 18 | 86 | 1451 | 1437 | 1568 | 5 | 62 | | | | 1401 | 5 | 63 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Comments: 12/22- TOOK TOTAL INLET VAPOR SAMPLE @ 1300, TURNED off DPE-3 & AIR SPARGE @ 1305. TURNED AIR SPARGE ON AT 1500.

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

CalClean Inc.

Project Location: 1630 PARK STREET City: ALMEDA Site #: GOOD CHEVROLET Date: 12/23/2011 Page 11A of 19

Client: BUESTAD Operator (s): MICK

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units | gals | |
| 1423 | | | | | ON | VAC | FLOW | OFF | | | ON | VAC | FLOW | | | | | | | | | |
| 0400 | 16 | 103 | 658 | 1371 | 1521 | 7 | 49 | | | | 1364 | 5 | 61 | | | | | | | | | |
| 0800 | 14 | 121 | 657 | 1293 | 1473 | 7 | 47 | | | | 1375 | 5 | 64 | | | | | | | 34520 | 22140 | |
| 1200 | 14 | 124 | 653 | 1281 | 1468 | 7 | 42 | ON | | | 1348 | 5 | 63 | | | | | | | | | |
| 1300 | 15 | 173 | 652 | 1497 | 1471 | 7 | 44 | 1396 | 0 | 101 | 1321 | 5 | 61 | | | | | | | | | |
| 1600 | 15 | 174 | 651 | 1578 | 1524 | 7 | 43 | 1377 | 0 | 103 | 1306 | 5 | 62 | | | | | | | | | |
| 2000 | 15 | 178 | 653 | 1632 | 1567 | 7 | 41 | 1342 | 0 | 105 | 1298 | 5 | 61 | | | | | | | 35110 | 22130 | |
| 12/24 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 15 | 177 | 651 | 1581 | 1531 | 7 | 42 | 1327 | 0 | 107 | 1324 | 5 | 63 | | | | | | | | | |
| 0400 | 15 | 175 | 649 | 1459 | 1488 | 7 | 41 | 1304 | 0 | 108 | 1293 | 5 | 65 | | | | | | | | | |
| 0800 | 15 | 171 | 658 | 1398 | 1507 | 7 | 44 | 1281 | 0 | 102 | 1261 | 5 | 62 | | | | | | | 35750 | 23370 | 1230 |
| 1200 | 15 | 176 | 655 | 1378 | 1478 | 7 | 41 | 1273 | 0 | 104 | 1244 | 5 | 61 | | | | | | | | | |
| 1600 | 15 | 173 | 654 | 1306 | 1452 | 7 | 43 | 1258 | 0 | 101 | 1216 | 5 | 64 | | | | | | | | | |
| 2000 | 15 | 171 | 651 | 1284 | 1443 | 7 | 40 | 1212 | 0 | 106 | 1194 | 5 | 63 | | | | | | | 36480 | 24100 | 1370 |
| 12/25 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 15 | 178 | 652 | 1251 | 1396 | 7 | 42 | 1196 | 0 | 105 | 1173 | 5 | 65 | | | | | | | | | |
| 0400 | 15 | 175 | 651 | 1274 | 1373 | 7 | 41 | 1163 | 0 | 102 | 1148 | 5 | 62 | | | | | | | | | |
| 0800 | 15 | 174 | 653 | 1226 | 1328 | 7 | 44 | 1107 | 0 | 104 | 1124 | 5 | 61 | | | | | | | 37240 | 24860 | 1490 |
| 1200 | 15 | 173 | 651 | 1193 | 1291 | 7 | 43 | 1086 | 0 | 101 | 1097 | 5 | 64 | | | | | | | | | |
| 2000 | 15 | 177 | 653 | 1068 | 1284 | 7 | 45 | 1048 | 0 | 103 | 1076 | 5 | 62 | | | | | | | 37890 | 25510 | 1410 |
| | | | | | | | | | | | | | | | | | | | | | | |

Comments:

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/26/2011 Page 124 of 19

Client: **BUESTAD** Operator (s): NICK

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE 3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 12/26 | | | | | ON | VAC | FLOW | ON | VAC | FLOW | ON | VAC | FLOW | | | | | | | | | |
| 0001 | 15 | 171 | 1653 | 1057 | 1276 | 7 | 41 | 1093 | 0 | 106 | 1093 | 5 | 64 | | | | | | | | | |
| 0400 | 15 | 175 | 1651 | 1008 | 1244 | 7 | 44 | 1104 | 0 | 107 | 1058 | 5 | 67 | | | | | | | | | |
| 0800 | 15 | 173 | 1652 | 1031 | 1223 | 7 | 48 | 1071 | 0 | 103 | 1023 | 5 | 62 | | | | | | | 38240 | 25860 | 1600 |
| 1200 | 15 | 174 | 1654 | 1053 | 1209 | 7 | 43 | 1053 | 0 | 101 | 1007 | 5 | 63 | | | | | | | | | |
| 1600 | 15 | 177 | 1651 | 1096 | 1191 | 7 | 44 | 1027 | 0 | 105 | 998 | 5 | 64 | | | | | | | | | |
| 2000 | 15 | 176 | 1649 | 1041 | 1146 | 7 | 47 | 1009 | 0 | 103 | 973 | 5 | 61 | | | | | | | 38870 | 26490 | 980 |
| 12/27 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 15 | 178 | 1647 | 1007 | 1158 | 7 | 44 | 968 | 0 | 107 | 952 | 5 | 65 | | | | | | | | | |
| 0400 | 15 | 176 | 1653 | 953 | 1115 | 7 | 46 | 947 | 0 | 106 | 908 | 5 | 63 | | | | | | | | | |
| 0800 | 15 | 171 | 1652 | 978 | 1096 | 7 | 45 | 921 | 0 | 108 | 964 | 5 | 61 | | | | | | | 39490 | 27110 | 1250 |
| UNIT | OFF | PER | SERVE | MW/VAC | OFF/ON | | | OFF | | | OFF | | | | | | | | | | | |
| 1000 | 20 | 37 | 1664 | | 427 | 1 | 97 | | 0.18 | | | 0.10 | | | | | | | | | | |
| 1030 | 25 | 24 | 7462 | | 715 | 1.5 | 99 | | 0.20 | | | 0.09 | | | | | | | | | | |
| 1100 | 25 | 21 | 1679 | | 793 | 1.5 | 98 | | 0.20 | | | 0.10 | | | | | | | | | | |
| 1105 | 24 | 28 | 1681 | | 847 | 3 | 81 | | 0.20 | | | 0.10 | | | | | | | | | | |
| 1135 | 24 | 29 | 1663 | | 949 | 3 | 87 | | 0.20 | | | 0.10 | | | | | | | | | | |
| 1205 | 24 | 28 | 1658 | | 973 | 3 | 85 | | 0.30 | | | 0.14 | | | | | | | | | | |
| 1210 | 23 | 31 | 1654 | | 942 | 5 | 64 | | 0.30 | | | 0.17 | | | | | | | | | | |
| 1240 | 23 | 33 | 1653 | | 1013 | 5 | 63 | | 0.30 | | | 0.17 | | | | | | | | | | |
| 1310 | 23 | 32 | 1651 | | 1028 | 5 | 65 | | 0.30 | | | 0.19 | | | | | | | | | | |

Comments:

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

CalClean Inc.

Project Location: 1630 PARK STREET City: ALMEDA Site #: GOOD CHEVROLET Date: 12/27/2011 Page 13A of 19

Client: BUESTAD Operator (s): NICK

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units | gals |
| 12/27 | | | | | | | | | | | | | | | | | | | | | |
| 1315 | 22 | 39 | 1651 | | 1054 | 7 | 43 | | 0.35 | | | 0.20 | | | | | | | | | |
| 1345 | 22 | 39 | 1653 | | 1059 | 7 | 41 | | 0.35 | | | 0.20 | | | | | | | | | |
| 1415 | 22 | 38 | 1654 | | 1077 | 7 | 45 | | 0.40 | | | 0.20 | | | | | | | | | |
| | | | | | OFF | | | | | | ON | | | | | | | | | | |
| 1420 | 25 | 23 | 1658 | | | 0.70 | | | 0.95 | | 243 | 1.5 | 96 | | | | | | | | |
| 1450 | 24 | 26 | 1652 | | | 0.70 | | | 1.05 | | 317 | 1.5 | 98 | | | | | | | | |
| 1520 | 24 | 28 | 1651 | | | 0.65 | | | 1.15 | | 395 | 1.5 | 97 | | | | | | | | |
| 1525 | 23 | 30 | 1653 | | | 0.65 | | | 1.15 | | 418 | 3 | 83 | | | | | | | | |
| 1555 | 23 | 32 | 1651 | | | 0.60 | | | 1.20 | | 447 | 3 | 85 | | | | | | | | |
| 1625 | 22 | 35 | 1655 | | | 0.60 | | | 1.20 | | 496 | 3 | 82 | | | | | | | | |
| 1630 | 21 | 39 | 1651 | | | 0.55 | | | 1.25 | | 581 | 5 | 64 | | | | | | | | |
| 1700 | 21 | 40 | 1651 | | | 0.55 | | | 1.25 | | 678 | 5 | 67 | | | | | | | | |
| 1730 | 21 | 43 | 1653 | | | 0.55 | | | 1.30 | | 721 | 5 | 65 | | | | | | | | |
| | | | | | ON | | | ON | | | | | | | | | | | | | |
| 1745 | 17 | 163 | 1654 | 852 | 1174 | 7 | 42 | 1652 | 0 | 107 | 743 | 5 | 62 | | | | | | | | |
| 2000 | 17 | 162 | 1653 | 871 | 1217 | 7 | 46 | 1678 | 0 | 109 | 776 | 5 | 67 | | | | | | | 39770 | 27390 900 |
| 12/28 | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 16 | 168 | 1651 | 864 | 1244 | 7 | 47 | 1682 | 0 | 101 | 751 | 5 | 61 | | | | | | | | |
| 0400 | 16 | 170 | 1654 | 921 | 1258 | 7 | 44 | 1699 | 0 | 105 | 784 | 5 | 63 | | | | | | | | |
| 0800 | 16 | 171 | 1653 | 907 | 1277 | 7 | 41 | 1703 | 0 | 104 | 792 | 5 | 65 | | | | | | | 40310 | 27930 820 |

Comments:

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

**CalClean Inc.**

Project Location: 1630 PARK STREET | City: ALMEDA | Site #: GOOD CHEVROLET -7627- | Date: 12/28/2011 | Page 14 of 19

Client: BUESTAD | Operator (s): NICK

## EXTRACTION WELLS

| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | | | | | | | Water Meter Readings | Cumul. Water Extracted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 12/28 | | | | | ON | VAC | FLOW | ON | VAC | FLOW | ON | VAC | FLOW | | | | | | | | | |
| 1200 | 15 | 174 | 651 | 923 | 1293 | 7 | 43 | 717 | 0 | 101 | 806 | 5 | 63 | | | | | | | | | |
| 1600 | 15 | 177 | 653 | 974 | 1313 | 7 | 42 | 742 | 0 | 99 | 819 | 5 | 64 | | | | | | | | | |
| 2000 | 15 | 178 | 654 | 951 | 1284 | 7 | 44 | 721 | 0 | 104 | 803 | 5 | 62 | | | | | | | 40920 | 28540 | 1150 |
| 12/29 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 15 | 178 | 652 | 928 | 1263 | 7 | 45 | 691 | 0 | 105 | 782 | 5 | 61 | | | | | | | | | |
| 0400 | 15 | 176 | 658 | 897 | 1251 | 7 | 43 | 674 | 0 | 103 | 773 | 5 | 65 | | | | | | | | | |
| 0800 | 15 | 173 | 657 | 871 | 1233 | 7 | 42 | 653 | 0 | 101 | 758 | 5 | 64 | | | | | | | 41710 | 29330 | 1400 |
| 1200 | 15 | 171 | 652 | 855 | 1208 | 7 | 44 | 611 | 0 | 104 | 742 | 5 | 61 | | | | | | | | | |
| 1600 | 15 | 172 | 651 | 833 | 1196 | 7 | 43 | 643 | 0 | 102 | 719 | 5 | 63 | | | | | | | | | |
| 2000 | 15 | 174 | 653 | 818 | 1191 | 7 | 41 | 641 | 0 | 101 | 698 | 5 | 68 | | | | | | | 42310 | 29930 | 1390 |
| 12/30 | | | | | | | | | | | | | | | | | | | | | | |
| 0601 | 15 | 171 | 654 | 841 | 1142 | 7 | 42 | 618 | 0 | 103 | 732 | 5 | 65 | | | | | | | | | |
| 0400 | 15 | 177 | 651 | 876 | 1093 | 7 | 44 | 637 | 0 | 102 | 787 | 5 | 62 | | | | | | | | | |
| — | UNIT | OFF | AEI | — | | | | | | | | | | | | | | | | | | |

Comments: 12/30 - TOOK VAPOR SAMPLES AS FOLLOWS - TOTAL INLET @ 0355, DPE-1 @ 0400, DPE-2 @ 0405, DPE-3 @ 0410.

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/30/2011 Page 15A of 19

Client: **BUESTAD** Operator (s): Nick -767-

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-2 | | | | | | Water Meter Readings | Cumul. Water Extracted | |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 12/30 | | | | | | | | | | | | | | | | | | | | | | |
| 0930 | | | | | | 10.03 | | | 9.60 | | | 10.89 | | | | | | | | 42770 | 30390 | |
| 1130 | | | | | | 10.54 | | | 9.58 | | | 10.65 | | | | | | | | | | |
| | | — | | | | VAC | | | VAC | | | | | DN | | | | | | | | |
| 1215 | 25 | 33 | 651 | 289 | | 0.01 | | | 0.01 | | | 0.01 | | | | | | | | | | |
| 1230 | 25 | 35 | 653 | 241 | | 0.05 | | | 0.03 | | | 0.05 | | | | | | | | | | |
| 1300 | 25 | 37 | 649 | 376 | | 0.10 | | | 0.03 | | | 0.05 | | | | | | | | | | |
| 1330 | 25 | 39 | 655 | 528 | | 0.15 | | | 0.05 | | | 0.05 | | | | | | | | | | |
| 1400 | 25 | 38 | 658 | 1073 | | 0.15 | | | 0.07 | | | 0.05 | | | | | | | | | | |
| 1430 | 25 | 39 | 651 | 1637 | | 0.15 | | | 0.07 | | | 0.05 | | | | | | | | | | |
| 1600 | 25 | 38 | 653 | 1728 | | 0.15 | | | 0.07 | | | 0.05 | | | | | | | | | | |
| 2000 | 25 | 37 | 652 | 1793 | | 0.15 | | | 0.07 | | | 0.05 | | | | | | | | 43370 | 30990 | 1060 |
| 12/31 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 25 | 35 | 657 | 1852 | | 0.15 | | | 0.06 | | | 0.05 | | | | | | | | | | |
| 0400 | 25 | 37 | 651 | 1937 | | 0.15 | | | 0.07 | | | 0.05 | | | | | | | | | | |
| 0800 | 25 | 39 | 654 | 2010 | | 0.10 | | | 0.07 | | | 0.05 | | | | | | | | 43630 | 31250 | 860 |
| 1200 | 25 | 36 | 653 | 1958 | | 0.15 | | | 0.07 | | | 0.05 | | | | | | | | | | |
| | | | | | ON | | | | | | | | | | | | | | | | | |
| 1315 | 22 | 57 | 651 | 1538 | 1218 | 7 | 48 | | 0.07 | | | 0.05 | | 1876 | | | | | | | | |
| 1415 | 22 | 58 | 654 | 1529 | 1150 | 7 | 45 | | 0.07 | | | 0.05 | | 1852 | | | | | | | | |
| 1515 | 22 | 56 | 653 | 1486 | 1073 | 7 | 47 | | 0.07 | | | 0.05 | | 1841 | | | | | | | | |

Comments: 12/31 - Took VAPOR SAMPLE of MW-2 @ 1300. TURNED ON DPE-1 @ 1305.

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/31/2011 Page 16A of 19

Client: **BUESTAD** Operator (s): NICK -7167-

## EXTRACTION WELLS

| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-2 | | | | | | Water Meter Readings | Cumul. Water Extracted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 12/31 | | | | | | | | OFF | | | OFF | | | ON | | | | | | | | |
| 1600 | 22 | 55 | 652 | 1392 | 1007 | 7 | 47 | | 0.21 | | | 0.05 | | 1817 | | | | | | | | |
| — | HAPPY | NEW | YEAR | -2012- | | | | | | | | | | | | | | | | | | |
| 01/01 | | — | | | | | | | | | | | | | | | | | | | | |
| 0400 | 22 | 57 | 651 | 1173 | 874 | 7 | 49 | | 0.35 | | | 0.10 | | 1704 | | | | | | | | |
| 0800 | 22 | 59 | 653 | 1158 | 839 | 6 | 51 | | 0.35 | | | 0.10 | | 1691 | | | | | | 45180 | 32800 | 1550 |
| 1200 | 22 | 56 | 652 | 1117 | 818 | 6 | 52 | | 0.35 | | | 0.15 | | 1673 | | | | | | | | |
| 1600 | 22 | 55 | 651 | 1073 | 756 | 6 | 51 | | 0.35 | | | 0.15 | | 1642 | | | | | | | | |
| 2000 | 22 | 59 | 653 | 1047 | 717 | 6 | 55 | | 0.35 | | | 0.20 | | 1668 | | | | | | 45870 | 33490 | |
| 01/02 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 22 | 59 | 658 | 1004 | 693 | 6 | 54 | | 0.35 | | | 0.25 | | 1637 | | | | | | | | |
| 0400 | 22 | 60 | 654 | 956 | 688 | 6 | 56 | | 0.35 | | | 0.20 | | 1591 | | | | | | | | |
| 0800 | 22 | 58 | 651 | 923 | 677 | 6 | 53 | | 0.34 | | | 0.25 | | 1568 | | | | | | 46220 | 33840 | 1040 |
| 1200 | 22 | 56 | 652 | 911 | 652 | 6 | 51 | | 0.36 | | ON | | | | | | | | | | | |
| 1600 | 21 | 124 | 654 | 1298 | 1031 | 6 | 52 | | 0.35 | | 831 | 5 | 63 | 1533 | | | | | | | | |
| 2000 | 20 | 132 | 658 | 1252 | 649 | 6 | 54 | | 0.35 | | 796 | 5 | 62 | 1506 | | | | | | 46930 | 34550 | 1060 |
| 01/03 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 20 | 137 | 653 | 1227 | 619 | 6 | 51 | | 0.35 | | 728 | 5 | 64 | 1482 | | | | | | | | |
| 0400 | 19 | 148 | 651 | 1177 | 594 | 6 | 57 | | 0.35 | | 673 | 5 | 61 | 1461 | | | | | | | | |
| 0800 | 18 | 164 | 652 | 1135 | 583 | 6 | 54 | | 0.35 | | 621 | 5 | 60 | 1429 | | | | | | 47790 | 35410 | 1570 |
| 1100 | 18 | 163 | 651 | 1103 | 561 | 6 | 52 | | 0.35 | | 593 | 5 | 61 | 1391 | | | | | | | | |

Comments: 01/02 - TURNED ON DPE-2 @ 1530.

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 1/3/2012 Page 17a of 18

Client: **BUESTAD** Operator (s): Nick -767-

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-2 | | | | | | Water Meter Readings | Cumul. Water Extracted | |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 01/03 | | | | | ON | | | OFF | | | ON | | | ON | | | | | | | | |
| 1500 | 18 | 164 | 652 | 1078 | 551 | 6 | 53 | | 0.35 | | 563 | 5 | 63 | 1343 | | | | | | | | |
| 16000 | 18 | 163 | 653 | 1051 | 523 | 6 | 52 | | 0.35 | | 551 | 5 | 61 | 1321 | | | | | | | | |
| 2000 | 18 | 165 | 657 | 1031 | 578 | 6 | 51 | | 0.35 | | 542 | 5 | 64 | 1318 | | | | | | 48520 | 36140 | 1590 |
| 01/04 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 18 | 167 | 654 | 1017 | 556 | 6 | 54 | | 0.35 | | 528 | 5 | 63 | 1291 | | | | | | | | |
| 0400 | 18 | 165 | 655 | 977 | 541 | 6 | 54 | | 0.35 | | 515 | 5 | 61 | 1243 | | | | | | | | |
| 0800 | 18 | 163 | 652 | 923 | 537 | 6 | 51 | | 0.35 | | 507 | 5 | 64 | 1271 | | | | | | 49220 | 36840 | 1430 |
| 1200 | 18 | 168 | 651 | 958 | 618 | 6 | 53 | | 0.35 | | 501 | 5 | 61 | 1241 | | | | | | | | |
| 16000 | 18 | 162 | 652 | 971 | 561 | 6 | 52 | | 0.35 | | 521 | 5 | 63 | 1257 | | | | | | | | |
| 2000 | 18 | 167 | 652 | 943 | 547 | 6 | 53 | | 0.35 | | 516 | 5 | 62 | 1251 | | | | | | 49970 | 37590 | 1450 |
| 01/05 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 18 | 163 | 651 | 967 | 529 | 6 | 53 | | 0.35 | | 511 | 5 | 64 | 1259 | | | | | | | | |
| 0400 | 18 | 161 | 654 | 928 | 551 | 6 | 53 | | 0.35 | | 503 | 5 | 61 | 1282 | | | | | | | | |
| 0800 | 18 | 165 | 658 | 939 | 529 | 6 | 54 | | 0.35 | | 497 | 5 | 63 | 1258 | | | | | | 50640 | 38260 | 1420 |
| 1200 | 18 | 167 | 651 | 976 | 558 | 6 | 51 | | 0.35 | | 492 | 5 | 61 | 1217 | | | | | | | | |
| 16000 | 18 | 163 | 653 | 952 | 507 | 6 | 51 | | 0.35 | | 499 | 5 | 61 | 1247 | | | | | | | | |
| 2000 | 18 | 164 | 654 | 903 | 523 | 6 | 51 | | 0.35 | | 496 | 5 | 64 | 1231 | | | | | | 51030 | 38650 | 1060 |
| 01/06 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 18 | 165 | 652 | 928 | 542 | 6 | 51 | | 0.35 | | 487 | 5 | 64 | 1206 | | | | | | | | |
| 0400 | 18 | 161 | 651 | 952 | 511 | 6 | 53 | | 0.35 | | 491 | 5 | 64 | 1191 | | | | | | | | |

Comments:

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

**CalClean Inc.**

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET -7627-** Date: 01/06/2011 Page 18A of 19

Client: **BUESTAD** Operator (s): Nick

## EXTRACTION WELLS

| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-2 | | | | | | Water Meter Readings | Cumul. Water Extracted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units 12380 | gals | |
| 01/06 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 18 | 162 | 652 | 917 | 529 | 6 | 52 | | 0.35 | | 487 | 5 | 63 | 1176 | | | | | | 51740 | 39360 | 1100 |
| 1200 | 18 | 163 | 654 | 924 | 507 | 6 | 51 | | 0.35 | | 492 | 5 | 64 | 1142 | | | | | | | | |
| 1600 | 18 | 164 | 651 | 893 | 513 | 6 | 53 | | 0.35 | | 478 | 5 | 64 | 1159 | | | | | | | | |
| 2000 | 18 | 161 | 658 | 915 | 501 | 6 | 53 | | 0.35 | | 473 | 5 | 61 | 1131 | | | | | | 52310 | 39930 | 1280 |
| 01/07 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 18 | 165 | 653 | 886 | 528 | 6 | 51 | | 0.35 | | 452 | 5 | 61 | 1146 | | | | | | | | |
| 0400 | 18 | 168 | 654 | 892 | 509 | 6 | 51 | | 0.35 | | 448 | 5 | 63 | 1178 | | | | | | | | |
| 0800 | 18 | 163 | 654 | 871 | 493 | 6 | 51 | | 0.35 | | 467 | 5 | 63 | 1151 | | | | | | 52970 | 40590 | 1230 |
| 1200 | 18 | 165 | 651 | 857 | 499 | 6 | 52 | | 0.35 | | 434 | 5 | 63 | 1118 | | | | | | | | |
| 2000 | 18 | 161 | 658 | 882 | 496 | 6 | 51 | | 0.35 | | 451 | 5 | 61 | 1093 | | | | | | 53610 | 41230 | 1300 |
| 01/08 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 18 | 167 | 654 | 861 | 478 | 6 | 51 | | 0.35 | | 472 | 5 | 61 | 1077 | | | | | | | | |
| 0400 | 18 | 164 | 651 | 879 | 491 | 6 | 51 | | 0.35 | | 478 | 5 | 63 | 1081 | | | | | | | | |
| 0800 | 18 | 167 | 653 | 852 | 468 | 6 | 52 | | 0.35 | | 421 | 5 | 62 | 1042 | | | | | | 54110 | 41730 | 1140 |
| 1200 | 18 | 163 | 658 | 883 | 492 | 6 | 53 | | 0.35 | | 413 | 5 | 62 | 1071 | | | | | | | | |
| 2000 | 18 | 161 | 652 | 864 | 471 | 6 | 53 | | 0.35 | | 401 | 5 | 62 | 1093 | | | | | | 54690 | 42310 | 1080 |
| 01/09 | | | | | | | | | | | | | | | | | | | | | | |
| 0400 | 18 | 168 | 653 | 821 | 458 | 6 | 52 | | 0.35 | | 376 | 5 | 63 | 1098 | | | | | | | | |
| 0800 | 18 | 166 | 653 | 845 | 469 | 6 | 52 | | 0.35 | | 352 | 5 | 64 | 1047 | | | | | | 55230 | 42850 | 1120 |
| 1200 | 18 | 165 | 651 | 817 | 459 | 6 | 52 | | 0.35 | | 268 | 5 | 64 | 1023 | | | | | | | | |

Comments: 01/06 - Took VAPOR SAMPLES AS FOLLOWS - TOTAL INLET @ 0800, DPE-1 @ 0805, DPE-2 @ 0810, MW-2 @ 0815.

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

CalClean Inc.

Project Location: 1630 PARK STREET City: ALMEDA Site #: GOOD CHEVROLET Date: 01/09/2011 Page 19 of 19

Client: BUESTAD Operator (s): NICK -767-

| | | | | | EXTRACTION WELLS | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Well I.D. | | | | DPE-1 | | | DPE-3 | | | DPE-2 | | | MW-2 | | | | | | Water Meter Readings | Cumul. Water Extracted |
| | Screen Interval: From-To (ft) | | | | | | | | | | | | | | | | | | | | |
| | Initial Depth To Water DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| 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) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | Off/On (ppmv) | DTW (ft) | Stinger Depth (feet) | units | gals |
| 01/09 | | | | | | | | | | | | | | | | | | | | 12380 | |
| 1600 | 18 | 164 | 1052 | 827 | 441 | 6 | 53 | | 0.34 | | 371 | 5 | 63 | 1004 | | | | | | | |
| 1645 | 18 | 1162 | 1653 | 811 | 423 | 6 | 52 | | 0.35 | | 362 | 5 | 63 | 987 | | | | | | 55910 | 43530 |
| — | END | — | EVENT | — | | | | | | | | | | | | | | | | | |

Comments: 01/09 - Took Vapor Samples As Follows - Total Inlet @ 1645, MW-2 @ 1650, DPE-2 @ 1655, DPE-1 @ 1700. END H2O METER - 55910.

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

**CALCLEAN INC.**
(714) 734-9137
Page 13 of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/05/2011

Client: **BUESTAD** Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | AS-1 | | VP-1 | | VP-2 | | VP-3 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/05 | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | 8.27 | | 8.48 | | 8.34 | | 8.47 | | | | | | | | | | | | | | |
| 12/06 | | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | 8.02 | | 8.41 | | 8.25 | | 8.43 | | | | | | | | | | | | | | |
| 1130 | | 8.13 | | 8.51 | | 8.28 | | | 0.33 | | 0.20 | | 0.10 | | | | | | | | | |
| 1230 | | | | | | | | | 0.35 | | 0.20 | | 0.10 | | | | | | | | | |
| 1300 | | | | | | | | | 0.40 | | 0.20 | | 0.12 | | | | | | | | | |
| 1350 | 0.10 | | 0.43 | | 0.02 | | | | 0.42 | | 0.23 | | 0.12 | | | | | | | | | |
| 1406 | 0.06 | | 0.45 | | 0.03 | | | | 0.44 | | 0.25 | | 0.14 | | | | | | | | | |
| 1430 | 0.10 | | 0.44 | | 0.02 | | | | 0.49 | | 0.26 | | 0.12 | | | | | | | | | |
| 1500 | 0.10 | 8.21 | 0.47 | 8.71 | 0.02 | 8.37 | | | 0.44 | | 0.23 | | 0.11 | | | | | | | | | |
| 1530 | 0.10 | 8.27 | 0.44 | 8.69 | 0.02 | 8.39 | | | 0.43 | | 0.22 | | 0.12 | | | | | | | | | |
| 1600 | 0.10 | 8.25 | 0.48 | 8.73 | 0.02 | 8.42 | | | 0.43 | | 0.28 | | 0.12 | | | | | | | | | |
| 2000 | 0.13 | 8.29 | 0.42 | 8.77 | 0.02 | 8.44 | | | 0.44 | | 0.22 | | 0.10 | | | | | | | | | |
| 12/07 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.12 | 8.35 | 0.40 | 8.79 | 0.02 | 8.47 | | | 0.47 | | 0.54 | | 0.12 | | | | | | | | | |
| 0400 | 0.10 | 8.38 | 0.44 | 8.83 | 0.03 | 8.49 | | | 0.49 | | 0.87 | | 0.11 | | | | | | | | | |
| 0806 | 0.22 | 9.19 | 0.60 | 9.41 | 0.03 | 8.77 | | | 0.44 | | 0.28 | | 0.22 | | | | | | | | | |
| 0900 | 0.10 | | 0.12 | | 0.01 | | | | 0.02 | | 0.01 | | 0.04 | | | | | | | | | |
| 0930 | 0.08 | | 0.13 | | 0.00 | | | | 0.015 | | 0.01 | | 0.04 | | | | | | | | | |
| 1000 | 0.08 | | 0.13 | | 0.00 | | | | 0.015 | | 0.01 | | 0.04 | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 23 of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/7/201_

Client: **BUESTAD** Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/7 | | | | | | | | | | | | | | | | | | | | | | |
| 1030 | 0.10 | | 0.13 | | 0.00 | | 0.01 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1100 | 0.10 | | 0.13 | | 0.00 | | 0.01 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1130 | 0.10 | 9.72 | 0.15 | 9.58 | 0.00 | 8.86 | 0.01 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1200 | 0.10 | 9.75 | 0.15 | 9.59 | 0.00 | 8.87 | 0.01 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1230 | 0.10 | 9.76 | 0.15 | 9.61 | 0.00 | 8.89 | 0.01 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1300 | 0.10 | 9.74 | 0.15 | 9.63 | 0.00 | 8.91 | 0.01 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1400 | 0.10 | 9.77 | 0.15 | 9.67 | 0.00 | 8.93 | 0.01 | | 0.00 | | 0.04 | | | | | | | | | | | |
| 1500 | 0.10 | 9.79 | 0.15 | 9.68 | 0.00 | 8.97 | 0.00 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1600 | 0.10 | 9.83 | 0.15 | 9.71 | 0.00 | 8.99 | 0.01 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 2000 | 0.10 | 9.81 | 0.15 | 9.77 | 0.00 | 9.04 | 0.00 | | 0.00 | | 0.04 | | | | | | | | | | | |
| 12/8 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.10 | 9.88 | 0.15 | 9.83 | 0.00 | 9.07 | 0.01 | | 0.01 | | 0.05 | | | | | | | | | | | |
| 0400 | 0.10 | 9.91 | 0.15 | 9.89 | 0.00 | 9.18 | 0.00 | | 0.01 | | 0.06 | | | | | | | | | | | |
| 0800 | 0.10 | 9.97 | 0.15 | 9.94 | 0.00 | 9.29 | 0.00 | | 0.01 | | 0.06 | | | | | | | | | | | |
| 0830 | 0.10 | | 0.10 | | 0.00 | | 0.01 | | 0.01 | | 0.05 | | | | | | | | | | | |
| 0900 | 0.10 | | 0.10 | | 0.00 | | 0.01 | | 0.00 | | 0.05 | | | | | | | | | | | |
| 0930 | 0.10 | | 0.10 | | 0.00 | | 0.01 | | 0.00 | | 0.05 | | | | | | | | | | | |
| 1000 | 0.10 | | 0.10 | | 0.00 | | 0.00 | | 0.01 | | 0.05 | | | | | | | | | | | |
| 1030 | 0.10 | | 0.10 | | 0.00 | | 0.00 | | 0.00 | | 0.05 | | | | | | | | | | | |
| 1100 | 0.10 | 9.96 | 0.10 | 9.95 | 0.00 | 9.27 | 0.00 | | 0.01 | | 0.05 | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 33 of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/8/2011

Client: **BUESTAD** Operator (s): Nick

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/08 | | | | | | | | | | | | | | | | | | | | | | |
| 1130 | 0.10 | 9.99 | 0.10 | 9.97 | 0.00 | 9.29 | 0.00 | | 0.01 | | 0.05 | | | | | | | | | | | |
| 1200 | 0.10 | 10.03 | 0.10 | 9.99 | 0.00 | 9.31 | 0.00 | | 0.00 | | 0.05 | | | | | | | | | | | |
| 1230 | 0.05 | 10.01 | 0.10 | 10.00 | 0.00 | 9.30 | 0.00 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1300 | 0.05 | 10.03 | 0.10 | 10.02 | 0.00 | 9.33 | 0.00 | | 0.01 | | 0.05 | | | | | | | | | | | |
| 1400 | 0.05 | 10.07 | 0.10 | 10.03 | 0.00 | 9.34 | 0.00 | | 0.00 | | 0.04 | | | | | | | | | | | |
| 1500 | 0.05 | 10.08 | 0.10 | 10.04 | 0.00 | 9.37 | 0.00 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 1600 | 0.10 | 10.06 | 0.05 | 10.03 | 0.00 | 9.36 | 0.00 | | 0.01 | | 0.03 | | | | | | | | | | | |
| 2000 | 0.05 | 10.09 | 0.10 | 10.07 | 0.00 | 9.31 | 0.00 | | 0.01 | | 0.03 | | | | | | | | | | | |
| 12/9 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.10 | 10.05 | 0.05 | 10.09 | 0.00 | 9.33 | 0.00 | | 0.01 | | 0.03 | | | | | | | | | | | |
| 0400 | 0.10 | 10.08 | 0.10 | 10.04 | 0.00 | 9.35 | 0.00 | | 0.01 | | 0.03 | | | | | | | | | | | |
| 0800 | 0.10 | 10.07 | 0.05 | 10.01 | 0.00 | 9.39 | 0.00 | | 0.01 | | 0.04 | | | | | | | | | | | |
| 0900 | 0.08 | | 0.08 | | 0.01 | | 0.30 | | 0.15 | | 0.07 | | | | | | | | | | | |
| 1000 | 0.07 | | 0.09 | | 0.01 | | 0.35 | | 0.15 | | 0.05 | | | | | | | | | | | |
| 1100 | 0.10 | | 0.07 | | 0.01 | | 0.35 | | 0.15 | | 0.09 | | | | | | | | | | | |
| 1200 | 0.15 | | 0.11 | | 0.00 | | 0.40 | | 0.20 | | 0.15 | | | | | | | | | | | |
| 1600 | 0.10 | | 0.10 | | 0.00 | | 0.50 | | 0.25 | | 0.15 | | | | | | | | | | | |
| 2000 | 0.10 | | 0.10 | | 0.00 | | 0.55 | | 0.30 | | 0.20 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 48 of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/10/2011

Client: **BUESTAD** Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/10 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.15 | | 0.15 | | 0.00 | | 0.55 | | 0.30 | | 0.24 | | | | | | | | | | | |
| 2000 | 0.15 | | 0.20 | | 0.00 | | 0.55 | | 0.30 | | 0.24 | | | | | | | | | | | |
| 12/11 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.20 | | 0.20 | | 0.00 | | 0.55 | | 0.32 | | 0.26 | | | | | | | | | | | |
| 2000 | 0.20 | | 0.25 | | 0.00 | | 0.60 | | 0.28 | | 0.26 | | | | | | | | | | | |
| 12/12 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.20 | | 0.25 | | 0.00 | | 0.60 | | 0.30 | | 0.24 | | | | | | | | | | | |
| 1200 | 0.20 | | 0.25 | | 0.00 | | 0.62 | | 0.32 | | 0.28 | | | | | | | | | | | |
| 2000 | 0.20 | | 0.25 | | 0.00 | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 12/13 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.20 | | 0.25 | | 0.00 | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.25 | | 0.20 | | 0.00 | | 0.55 | | 0.30 | | 0.30 | | | | | | | | | | | |
| 12/14 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.25 | | 0.25 | | 0.00 | | 0.50 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.20 | | 0.20 | | 0.00 | | 0.45 | | 0.30 | | 0.25 | | | | | | | | | | | |
| 12/15 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.20 | | 0.20 | | 0.00 | | 0.45 | | 0.30 | | 0.25 | | | | | | | | | | | |
| 2000 | 0.20 | | 0.20 | | 0.00 | | 0.45 | | 0.30 | | 0.30 | | | | | | | | | | | |
| 12/16 0800 | 0.20 | | 0.20 | | 0.00 | | 0.45 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.20 | | 0.25 | | 0.00 | | 0.50 | | 0.35 | | 0.30 | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 5B of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/17/201__

Client: **BUESTAD** Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/17 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.20 | | 0.20 | | 0.00 | | 0.55 | | 0.32 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.25 | | 0.20 | | 0.00 | | 0.50 | | 0.30 | | 0.30 | | | | | | | | | | | |
| 12/18 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.30 | | 0.25 | | 0.00 | | 0.50 | | 0.30 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.35 | | 0.25 | | 0.00 | | 0.50 | | 0.30 | | 0.30 | | | | | | | | | | | |
| 12/19 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.40 | | 0.25 | | 0.00 | | 0.50 | | 0.30 | | 0.30 | | | | | | | | | | | |
| 1615 | 0.40 | | 0.25 | | ON | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1630 | 0.41 | | 0.25 | | | | | | | | | | | | | | | | | | | |
| 1645 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1700 | 0.45 | | 0.26 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1716 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1730 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1745 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1800 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1815 | 0.43 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1830 | 0.44 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1845 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1900 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1915 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |

Comments:

# HIGH VACUUM [ ] SVE or [x] DPE FIELD DATA SHEET

**CALCLEAN INC.**
(714) 734-9137
Page 6 of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/19/2011

Client: **BUESTAD** Operator (s): DAVIS

| | OBSERVATION WELLS | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | |
| SCREEN | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | [redacted] PSI | [redacted] FLOW | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/19 | | | | | OFF | | | | | | | | | | | | | | | |
| 1930 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | |
| 1945 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | |
| 2000 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | |
| 2100 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | |
| 2200 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | |
| 2300 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | |
| 2400 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | |
| 12/20 | | | | | | | | | | | | | | | | | | | | |
| 0400 | 0.45 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | |
| 0800 | 0.40 | | 0.25 | | | | 0.55 | | 0.35 | | 0.30 | | | | | | | | | |
| 2000 | 0.40 | | 0.25 | | | | 0.65 | | 0.30 | | 0.30 | | | | | | | | | |
| 12/21 | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.40 | | 0.25 | | | | 0.55 | | 0.31 | | 0.30 | | | | | | | | | |
| 0930 | 0.52 | | 0.40 | | | | 0.50 | | 0.40 | | 0.55 | | 8 | 5 | | | | | | |
| 0945 | 0.50 | | 0.35 | | | | 1.45 | | 0.70 | | 0.55 | | 8 | 5 | | | | | | |
| 1000 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.55 | | 8 | 5 | | | | | | |
| 1015 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.55 | | 8 | 5 | | | | | | |
| 1030 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.55 | | 8 | 5 | | | | | | |
| 1045 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.55 | | 8 | 5 | | | | | | |
| 1100 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.55 | | 8 | 5 | | | | | | |

Comments:

# HIGH VACUUM [ ] SVE or [x] DPE FIELD DATA SHEET

**CALCLEAN INC.**
(714) 734-9137
Page 78 of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/21/2011

Client: **BUESTAD** Operator (s): DAVIS

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | [illegible] PSI | [illegible] FLOW | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/21 | | | | | | | | | | | | | | | | | | | | | | |
| 1115 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.55 | | 7 | 6 | | | | | | | | |
| 1130 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.55 | | 7 | 6 | | | | | | | | |
| 1145 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.50 | | 7 | 6 | | | | | | | | |
| 1200 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.50 | | 7 | 6 | | | | | | | | |
| 1300 | 0.45 | | 0.36 | | | | 1.45 | | 0.70 | | 0.45 | | 7 | 6 | | | | | | | | |
| 1400 | 0.45 | | 0.36 | | | | 1.45 | | 0.70 | | 0.45 | | 7 | 6 | | | | | | | | |
| 1500 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.45 | | 7 | 6 | | | | | | | | |
| 1600 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.44 | | 7 | 6 | | | | | | | | |
| 1700 | 0.45 | | 0.35 | | | | 1.44 | | 0.70 | | 0.44 | | 7 | 6 | | | | | | | | |
| 1800 | 0.45 | | 0.35 | | | | 1.44 | | 0.70 | | 0.44 | | 7 | 6 | | | | | | | | |
| 1900 | 0.45 | | 0.35 | | | | 1.44 | | 0.70 | | 0.45 | | 7 | 6 | | | | | | | | |
| 2000 | 0.45 | | 0.35 | | | | 1.44 | | 0.70 | | 0.44 | | 7 | 6 | | | | | | | | |
| 2200 | 0.44 | | 0.35 | | | | 1.44 | | 0.70 | | 0.44 | | 6 | 7 | | | | | | | | |
| 2400 | 0.44 | | 0.35 | | | | 1.44 | | 0.70 | | 0.44 | | 6 | 7 | | | | | | | | |
| 12/22 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 0.44 | | 0.35 | | | | 1.44 | | 0.70 | | 0.44 | | 6 | 7 | | | | | | | | |
| 1200 | 0.45 | | 0.35 | | | | 1.41 | | 0.70 | | 0.44 | | 6 | 7 | | | | | | | | |
| 1300 | 0.44 | | 0.25 | | | | 0.55 | | 0.35 | | 0.35 | | OFF | | | | | | | | | |
| 1330 | 0.43 | | 0.25 | | | | 0.55 | | 0.40 | | 0.35 | | | | | | | | | | | |
| 1400 | 0.43 | | 0.25 | | | | 0.60 | | 0.35 | | 0.30 | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 88 of 116

Project Location: 1630 PARK STREET City: ALMEDA Site #: GOOD CHEVROLET Date: 12/22/2011

Client: BUESTAD Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/22 | | | | | | | | | | | | | | | | | | | | | | |
| 1430 | 0.43 | | 0.25 | | | | 0.165 | | 0.40 | | 0.35 | | ON | | | | | | | | | |
| 1500 | 0.44 | | 0.35 | | | | 1.35 | | 0.160 | | 0.40 | | 6 | 7 | | | | | | | | |
| 1530 | 0.44 | | 0.35 | | | | 1.35 | | 0.160 | | 0.45 | | 7 | 6 | | | | | | | | |
| 1600 | 0.44 | | 0.35 | | | | 1.35 | | 0.165 | | 0.40 | | 8 | 5 | | | | | | | | |
| 1630 | 0.45 | | 0.35 | | | | 1.40 | | 0.160 | | 0.40 | | 8 | 5 | | | | | | | | |
| 1700 | 0.44 | | 0.35 | | | | 1.40 | | 0.160 | | 0.40 | | 8 | 5 | | | | | | | | |
| 1730 | 0.44 | | 0.35 | | | | 1.40 | | 0.165 | | 0.35 | | 8 | 5 | | | | | | | | |
| 1800 | 0.45 | | 0.35 | | | | 1.40 | | 0.165 | | 0.35 | | 8 | 5 | | | | | | | | |
| 1830 | 0.44 | | 0.35 | | | | 1.45 | | 0.165 | | 0.35 | | 8 | 5 | | | | | | | | |
| 1900 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.35 | | 7 | 6 | | | | | | | | |
| 1930 | 0.45 | | 0.35 | | | | 1.45 | | 0.70 | | 0.35 | | 7 | 6 | | | | | | | | |
| 2000 | 0.44 | | 0.35 | | | | 1.45 | | 0.70 | | 0.30 | | 8 | 5 | | | | | | | | |
| 12/23 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.40 | | 0.35 | | | | 1.45 | | 0.70 | | 0.30 | | 8 | 5 | | | | | | | | |
| 0400 | 0.43 | | 0.35 | | | | 1.40 | | 0.70 | | 0.30 | | 8 | 5 | | | | | | | | |
| 0800 | 0.41 | | 0.35 | | | | 1.45 | | 0.70 | | 0.35 | | 8 | 5 | | | | | | | | |
| 1200 | 0.40 | | 0.35 | | | | 1.45 | | 0.70 | | 0.30 | | 8 | 5 | | | | | | | | |
| 1300 | 0.35 | | 0.30 | | | | 0.95 | | 0.70 | | 0.30 | | OFF | OFF | | | | | | | | |
| 1600 | 0.35 | | 0.24 | | | | 0.90 | | 0.160 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.35 | | 0.20 | | | | 0.90 | | 0.55 | | 0.25 | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 98 of 16

Project Location: 1630 PARK STREET City: ALMEDA Site #: GOOD CHEVROLET Date: 12/24/2011

Client: BUESTAD Operator (s): Nick

| | OBSERVATION WELLS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/24 | | | | | OFF | | | | | | | | OFF | | | | | | | | | |
| 0001 | 0.35 | | 0.20 | | | | 0.85 | | 0.55 | | 0.25 | | | | | | | | | | | |
| 0400 | 0.35 | | 0.20 | | | | 0.85 | | 0.55 | | 0.25 | | | | | | | | | | | |
| 0800 | 0.35 | | 0.25 | | | | 0.80 | | 0.55 | | 0.25 | | | | | | | | | | | |
| 1200 | 0.30 | | 0.25 | | | | 0.80 | | 0.55 | | 0.25 | | | | | | | | | | | |
| 1600 | 0.30 | | 0.25 | | | | 0.75 | | 0.55 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.30 | | 0.20 | | | | 0.75 | | 0.55 | | 0.25 | | | | | | | | | | | |
| 12/25 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.35 | | 0.25 | | | | 0.75 | | 0.55 | | 0.30 | | | | | | | | | | | |
| 0400 | 0.35 | | 0.25 | | | | 0.65 | | 0.50 | | 0.30 | | | | | | | | | | | |
| 0800 | 0.30 | | 0.25 | | | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1200 | 0.35 | | 0.25 | | | | 0.70 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1600 | 0.30 | | 0.30 | | | | 0.65 | | 0.45 | | 0.25 | | | | | | | | | | | |
| 2000 | 0.35 | | 0.25 | | | | 0.65 | | 0.45 | | 0.25 | | | | | | | | | | | |
| 12/26 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.30 | | 0.30 | | | | 0.60 | | 0.45 | | 0.25 | | | | | | | | | | | |
| 0400 | 0.35 | | 0.30 | | | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 0800 | 0.30 | | 0.30 | | | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1200 | 0.30 | | 0.25 | | | | 0.60 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1600 | 0.35 | | 0.25 | | | | 0.60 | | 0.45 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.30 | | 0.25 | | | | 0.60 | | 0.50 | | 0.25 | | | | | | | | | | | |

Comments:

# HIGH VACUUM [ ] SVE or [x] DPE FIELD DATA SHEET

**CALCLEAN INC.**
(714) 734-9137
Page 10B of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 10/27/2011

Client: **BUESTAD** Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/27 | | | | | OFF | | | | | | | | OFF | | | | | | | | | |
| 0001 | 0.35 | | 0.30 | | | | 0.55 | | 0.50 | | 0.30 | | | | | | | | | | | |
| 0400 | 0.35 | | 0.25 | | | | 0.55 | | 0.50 | | 0.30 | | | | | | | | | | | |
| 0800 | 0.30 | | 0.25 | | | | 0.55 | | 0.45 | | 0.30 | | | | | | | | | | | |
| 0845 | 0.05 | | 0.05 | | | | 0.10 | | 0.20 | | 0.10 | | | | | | | | | | | |
| 0915 | 0 | | 0 | | | | 0 | | 0 | | 0 | | | | | | | | | | | |
| 1000 | 0.18 | | 0.10 | | 0.00 | | 0.80 | | 0.40 | | 0.20 | | | | | | | | | | | |
| 1030 | 0.20 | | 0.90 | | 0.04 | | 0.85 | | 0.41 | | 0.15 | | | | | | | | | | | |
| 1100 | 0.20 | | 0.90 | | 0.04 | | 0.80 | | 0.40 | | 0.15 | | | | | | | | | | | |
| 1105 | 0.20 | | 0.95 | | 0.04 | | 1.20 | | 0.56 | | 0.25 | | | | | | | | | | | |
| 1135 | 0.20 | | 0.95 | | 0.05 | | 1.30 | | 0.60 | | 0.25 | | | | | | | | | | | |
| 1205 | 0.20 | | 0.95 | | 0.05 | | 1.30 | | 0.60 | | 0.25 | | | | | | | | | | | |
| 1210 | 0.30 | | 1.10 | | 0.06 | | 1.70 | | 0.80 | | 0.35 | | | | | | | | | | | |
| 1240 | 0.30 | | 1.10 | | 0.06 | | 1.75 | | 0.95 | | 0.40 | | | | | | | | | | | |
| 1310 | 0.30 | | 1.10 | | 0.07 | | 1.80 | | 0.95 | | 0.45 | | | | | | | | | | | |
| 1315 | 0.35 | | 1.10 | | 0.07 | | 1.85 | | 1.05 | | 0.55 | | | | | | | | | | | |
| 1345 | 0.35 | | 1.10 | | 0.07 | | 1.90 | | 1.10 | | 0.55 | | | | | | | | | | | |
| 1415 | 0.35 | | 1.10 | | 0.07 | | 1.90 | | 1.10 | | 0.55 | | | | | | | | | | | |
| 1420 | 0.35 | | 0.70 | | 0.00 | | 0.90 | | 0.60 | | 0.20 | | | | | | | | | | | |
| 1450 | 0.35 | | 0.50 | | 0.00 | | 0.80 | | 0.45 | | 0.20 | | | | | | | | | | | |
| 1520 | 0.30 | | 0.35 | | 0.00 | | 0.65 | | 0.35 | | 0.15 | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 11B of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/27/2011

Client: **BUESTAD** Operator (s): Nick

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/27 | | | | | | | | | | | | | OFF | | | | | | | | | |
| 1525 | 0.30 | | 0.35 | | 0.00 | | 0.45 | | 0.25 | | 0.10 | | | | | | | | | | | |
| 1555 | 0.25 | | 0.30 | | 0.00 | | 0.40 | | 0.20 | | 0.05 | | | | | | | | | | | |
| 1625 | 0.25 | | 0.25 | | 0.00 | | 0.25 | | 0.10 | | 0.05 | | | | | | | | | | | |
| 1630 | 0.20 | | 0.20 | | 0.00 | | 0.20 | | 0.05 | | 0.00 | | | | | | | | | | | |
| 1700 | 0.15 | | 0.15 | | 0.00 | | 0.15 | | 0.05 | | 0.00 | | | | | | | | | | | |
| 1730 | 0.15 | | 0.15 | | 0.00 | | 0.15 | | 0.05 | | 0.00 | | | | | | | | | | | |
| 1745 | 0.35 | | 0.35 | | 0.00 | | 0.15 | | 0.05 | | 0.00 | | | | | | | | | | | |
| 2000 | 0.30 | | 0.35 | | 0.00 | | 0.30 | | 0.25 | | 0.05 | | | | | | | | | | | |
| 12/28 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.30 | | 0.35 | | 0.00 | | 0.35 | | 0.30 | | 0.10 | | | | | | | | | | | |
| 0400 | 0.30 | | 0.30 | | 0.00 | | 0.40 | | 0.35 | | 0.15 | | | | | | | | | | | |
| 0800 | 0.35 | | 0.30 | | 0.00 | | 0.40 | | 0.35 | | 0.15 | | | | | | | | | | | |
| 1200 | 0.35 | | 0.30 | | 0.00 | | 0.40 | | 0.30 | | 0.20 | | | | | | | | | | | |
| 1600 | 0.30 | | 0.30 | | 0.00 | | 0.40 | | 0.35 | | 0.20 | | | | | | | | | | | |
| 2000 | 0.30 | | 0.35 | | 0.00 | | 0.45 | | 0.30 | | 0.25 | | | | | | | | | | | |
| 12/29 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.35 | | 0.30 | | 0.00 | | 0.45 | | 0.35 | | 0.25 | | | | | | | | | | | |
| 0400 | 0.35 | | 0.30 | | 0.00 | | 0.45 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 0800 | 0.35 | | 0.30 | | 0.00 | | 0.45 | | 0.35 | | 0.30 | | | | | | | | | | | |
| 1200 | 0.30 | | 0.35 | | 0.00 | | 0.50 | | 0.40 | | 0.30 | | | | | | | | | | | |

Comments:

# HIGH VACUUM [ ] SVE or [x] DPE FIELD DATA SHEET

**CALCLEAN INC.**
(714) 734-9137
Page 12B of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/29/2011

Client: **BUESTAD** Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/29 | | | | | | | | | | | | | OFF | | | | | | | | | |
| 1600 | 0.30 | | 0.35 | | 0.00 | | 0.50 | | 0.40 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.30 | | 0.35 | | 0.00 | | 0.50 | | 0.40 | | 0.30 | | | | | | | | | | | |
| 12/30 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.35 | | 0.30 | | 0.00 | | 0.50 | | 0.40 | | 0.35 | | | | | | | | | | | |
| 0400 | 0.35 | | 0.35 | | 0.00 | | 0.50 | | 0.40 | | 0.35 | | | | | | | | | | | |
| 0930 | | 9.49 | | 9.52 | | 9.21 | | | | | | | | | | | | | | | | |
| 1130 | | 9.43 | | 9.82 | | 9.25 | | | | | | | | | | | | | | | | |
| 1230 | 0.00 | | DN | | 0.00 | | 0.10 | | 0.02 | | 0.05 | | | | | | | | | | | |
| 1300 | 0.15 | | | | 0.05 | | 0.55 | | 0.42 | | 0.15 | | | | | | | | | | | |
| 1330 | 0.10 | | | | 0.05 | | 0.55 | | 0.40 | | 0.15 | | | | | | | | | | | |
| 1400 | 0.10 | | | | 0.05 | | 0.60 | | 0.45 | | 0.15 | | | | | | | | | | | |
| 1430 | 0.10 | | | | 0.05 | | 0.60 | | 0.45 | | 0.20 | | | | | | | | | | | |
| 1600 | 0.10 | | | | 0.05 | | 0.60 | | 0.45 | | 0.20 | | | | | | | | | | | |
| 2000 | 0.10 | | | | 0.05 | | 0.60 | | 0.45 | | 0.20 | | | | | | | | | | | |
| 12/31 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.10 | | | | 0.05 | | 0.60 | | 0.45 | | 0.15 | | | | | | | | | | | |
| 0400 | 0.15 | | | | 0.05 | | 0.60 | | 0.50 | | 0.15 | | | | | | | | | | | |
| 0800 | 0.15 | | | | 0.05 | | 0.60 | | 0.50 | | 0.20 | | | | | | | | | | | |
| 1200 | 0.15 | | | | 0.05 | | 0.60 | | 0.50 | | 0.20 | | | | | | | | | | | |
| 1315 | 0.25 | | | | 0.05 | | 0.75 | | 0.50 | | 0.20 | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 188 of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 12/31/2011

Client: **BUESTAD** Operator (s): NICK

| | OBSERVATION WELLS | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 12/31 | | | ON | | | | | | | | | | | | | | | | | | | |
| 1415 | 0.25 | | | | 0.05 | | 0.75 | | 0.55 | | 0.20 | | | | | | | | | | | |
| 1515 | 0.25 | | | | 0.05 | | 0.75 | | 0.55 | | 0.20 | | | | | | | | | | | |
| 1600 | 0.25 | | | | 0.05 | | 0.75 | | 0.55 | | 0.25 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 01/01 | | | | | | | | | | | | | | | | | | | | | | |
| 0400 | 0.25 | | | | 0.06 | | 0.75 | | 0.55 | | 0.25 | | | | | | | | | | | |
| 0800 | 0.25 | | | | 0.06 | | 0.80 | | 0.55 | | 0.25 | | | | | | | | | | | |
| 1200 | 0.30 | | | | 0.05 | | 0.80 | | 0.60 | | 0.30 | | | | | | | | | | | |
| 1600 | 0.30 | | | | 0.05 | | 0.80 | | 0.60 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.30 | | | | 0.06 | | 0.80 | | 0.60 | | 0.30 | | | | | | | | | | | |
| 01/02 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.30 | | | | 0.05 | | 0.85 | | 0.60 | | 0.35 | | | | | | | | | | | |
| 0400 | 0.30 | | | | 0.05 | | 0.85 | | 0.65 | | 0.35 | | | | | | | | | | | |
| 0800 | 0.30 | | | | 0.05 | | 0.85 | | 0.65 | | 0.35 | | | | | | | | | | | |
| 1200 | 0.30 | | | | 0.05 | | 0.85 | | 0.65 | | 0.35 | | | | | | | | | | | |
| 1600 | 0.30 | | | | 0.00 | | 0.70 | | 0.60 | | 0.30 | | | | | | | | | | | |
| 2000 | 0.30 | | | | 0.00 | | 0.70 | | 0.55 | | 0.30 | | | | | | | | | | | |
| 01/03 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.30 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 0400 | 0.30 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page MB of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 1/3/2012

Client: **BUESTAD** Operator (s): HICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 01/03 | | | ON | | | | | | | | | | OFF | | | | | | | | | |
| 0800 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1100 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1500 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1600 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 2000 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 01/04 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 0400 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 0800 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1200 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 1600 | 0.25 | | | | 0.00 | | 0.65 | | 0.50 | | 0.25 | | | | | | | | | | | |
| 2000 | 0.25 | | | | 0.00 | | 0.65 | | 0.45 | | 0.30 | | | | | | | | | | | |
| 01/05 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.25 | | | | 0.02 | | 0.70 | | 0.45 | | 0.30 | | | | | | | | | | | |
| 0400 | 0.25 | | | | 0.02 | | 0.70 | | 0.45 | | 0.30 | | | | | | | | | | | |
| 0800 | 0.25 | | | | 0.02 | | 0.70 | | 0.45 | | 0.30 | | | | | | | | | | | |
| 1200 | 0.25 | | | | 0.02 | | 0.75 | | 0.50 | | 0.35 | | | | | | | | | | | |
| 1600 | 0.25 | | | | 0.02 | | 0.70 | | 0.50 | | 0.35 | | | | | | | | | | | |
| 2000 | 0.25 | | | | 0.02 | | 0.65 | | 0.50 | | 0.35 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

Comments:

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

**CALCLEAN INC.**
(714) 734-9137
Page 15B of 16

Project Location: **1630 PARK STREET** City: **ALMEDA** Site #: **GOOD CHEVROLET** Date: 01/06 2011

Client: **BUESTAD** Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 01/06 | | | ON | | | | | | | | | | OFF | | | | | | | | | |
| 0001 | 0.30 | | | | 0.02 | | 0.70 | | 0.55 | | 0.35 | | | | | | | | | | | |
| 0400 | 0.30 | | | | 0.02 | | 0.70 | | 0.50 | | 0.35 | | | | | | | | | | | |
| 0800 | 0.30 | | | | 0.04 | | 0.70 | | 0.50 | | 0.35 | | | | | | | | | | | |
| 1200 | 0.30 | | | | 0.04 | | 0.70 | | 0.50 | | 0.35 | | | | | | | | | | | |
| 1600 | 0.30 | | | | 0.04 | | 0.70 | | 0.55 | | 0.40 | | | | | | | | | | | |
| 2000 | 0.30 | | | | 0.04 | | 0.70 | | 0.55 | | 0.40 | | | | | | | | | | | |
| 01/07 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.30 | | | | 0.04 | | 0.70 | | 0.60 | | 0.35 | | | | | | | | | | | |
| 0400 | 0.30 | | | | 0.06 | | 0.70 | | 0.50 | | 0.40 | | | | | | | | | | | |
| 0800 | 0.35 | | | | 0.06 | | 0.75 | | 0.55 | | 0.35 | | | | | | | | | | | |
| 1200 | 0.35 | | | | 0.06 | | 0.75 | | 0.55 | | 0.40 | | | | | | | | | | | |
| 2000 | 0.35 | | | | 0.06 | | 0.75 | | 0.60 | | 0.35 | | | | | | | | | | | |
| 01/08 | | | | | | | | | | | | | | | | | | | | | | |
| 0001 | 0.35 | | | | 0.08 | | 0.70 | | 0.60 | | 0.35 | | | | | | | | | | | |
| 0400 | 0.36 | | | | 0.08 | | 0.70 | | 0.60 | | 0.35 | | | | | | | | | | | |
| 0800 | 0.35 | | | | 0.08 | | 0.75 | | 0.55 | | 0.40 | | | | | | | | | | | |
| 1200 | 0.35 | | | | 0.08 | | 0.75 | | 0.55 | | 0.35 | | | | | | | | | | | |
| 2000 | 0.35 | | | | 0.08 | | 0.70 | | 0.60 | | 0.40 | | | | | | | | | | | |
| 01/09 | | | | | | | | | | | | | | | | | | | | | | |
| 0400 | 0.35 | | | | 0.08 | | 0.75 | | 0.60 | | 0.40 | | | | | | | | | | | |

Comments:

# HIGH VACUUM [ ] SVE or [x] DPE FIELD DATA SHEET

CALCLEAN INC.
(714) 734-9137
Page 16 of 16

Project Location: 1630 PARK STREET  City: ALMEDA  Site #: GOOD CHEVROLET  Date: 01/9/2011

Client: BUESTAD  Operator (s): NICK

## OBSERVATION WELLS

| WELL | MW-1 | | MW-2 | | MW-3 | | VP-1 | | VP-2 | | VP-3 | | AS-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCREEN | | | | | | | | | | | | | | | | | | | | | | |
| DTW (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Time | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) | Vacuum "$H_2O$ | DTW (ft) |
| 01/09 | | | ON | | | | | | | | | | OFF | | | | | | | | | |
| 0800 | 0.35 | | | | 0.08 | | 0.75 | | 0.55 | | 0.40 | | | | | | | | | | | |
| 1200 | 0.35 | | | | 0.10 | | 0.75 | | 0.55 | | 0.40 | | | | | | | | | | | |
| 1600 | 0.35 | | | | 0.10 | | 0.75 | | 0.55 | | 0.40 | | | | | | | | | | | |
| 1715 | 0.35 | | | | 0.10 | | 0.75 | | 0.55 | | 0.40 | | | | | | | | | | | |

Comments:

# APPENDIX C

# REMEDIAL COST ESTIMATES

Appendic C
Remedial Option Cost Estimates

| Excavation and disposal (5225 sq ft by 12 ft deep) | | | | | |
|---|---|---|---|---|---|
| Shoring (20 ft along sidewalk), installation, 3 weeks rental, removal | $ | 33,500.00 | 1 | $ | 33,500.00 |
| Monitoring well decommissioning | $ | 8,000.00 | 1 | $ | 8,000.00 |
| Dewatering system installation | $ | 94,000.00 | 1 | $ | 94,000.00 |
| Excavate approximately 3650 tons, soil handling and stockpiling, backfilling | $ | 49.50 | 3650 | $ | 180,675.00 |
| Transportation and disposal of impacted soils | $ | 68.25 | 2200 | $ | 150,150.00 |
| Sample analyses (sidewall re-use) and reporting | $ | 25,000.00 | 1 | $ | 25,000.00 |
| | | | | $ | 491,325.00 |

| Other tasks | | | | | |
|---|---|---|---|---|---|
| Data gaps investigation (well, conduit survey; vapor survey, add'l MWs) | $ | 28,000.00 | 1 | $ | 28,000.00 |
| Groundwater Monitoring (quarterly for 1 year, semi-annual for 2 additional years) | $ | 4,250.00 | 8 | $ | 34,000.00 |
| Closure tasks (report, well & system decommissioning) | $ | 43,000.00 | 1 | $ | 43,000.00 |
| | | | | $ | 105,000.00 |

Estimated total: $ 596,325.00

Appendic C
Remedial Option Cost Estimates

| HVDPE Extraction | | | | | |
|---|---|---|---|---|---|
| HVDPE equipment and operation* | $ | 190,000.00 | 1 | $ | 190,000.00 |
| Data analysis and scale-up design | $ | 12,500.00 | 1 | $ | 12,500.00 |
| Additional remediation wells (7 extraction) | $ | 35,000.00 | 1 | $ | 35,000.00 |
| Additional remediation wells (3 extraction) | $ | 15,000.00 | 1 | $ | 15,000.00 |
| Monthly monitoring, data analysis, optimization | $ | 7,000.00 | 4 | $ | 28,000.00 |
| 4th month of HVDPE system operation | $ | 60,000.00 | 1 | $ | 60,000.00 |
| | | | | $ | 340,500.00 |

| Other tasks | | | | | |
|---|---|---|---|---|---|
| Data gaps investigation (well, conduit survey; vapor survey, add'l MWs) | $ | 15,000.00 | 1 | $ | 15,000.00 |
| Excavation and disposal of oil impacted soil (515 tons estimated) | $ | 106.00 | 515 | $ | 54,590.00 |
| Groundwater Monitoring (quarterly for 1 year, semi-annual for 2 additional years) | $ | 4,250.00 | 8 | $ | 34,000.00 |
| Closure tasks (report, well & system decommissioning) | $ | 32,000.00 | 1 | $ | 32,000.00 |
| | | | | $ | 135,590.00 |

| | | |
|---|---|---|
| Estimated total: | $ | 476,090.00 |

* Quote from CalClean, Inc: includes mobilization, operation for 3 months, water & vapor treatment, AQMD permitting and sampling

Appendic C
Remedial Option Cost Estimates

| Ozone sparge system with vapor control | | | | | |
|---|---|---|---|---|---|
| Field pilot test for ROI determination | $ | 14,000.00 | 1 | $ | 14,000.00 |
| Laboratory bench pilot test | $ | 18,000.00 | 1 | $ | 18,000.00 |
| System design, engineering, drafting and project coordination | $ | 10,000.00 | 1 | $ | 10,000.00 |
| 20 point sparge system package unit | $ | 68,000.00 | 1 | $ | 68,000.00 |
| Install sparge wells | $ | 2,700.00 | 19 | $ | 51,300.00 |
| Conduit, line, and compound installation | $ | 24,500.00 | 1 | $ | 24,500.00 |
| Vapor control piping and system installation | $ | 20,000.00 | 1 | $ | 20,000.00 |
| Vapor control blower system (permitting, blower package, abatement) | $ | 31,500.00 | 1 | $ | 31,500.00 |
| System startup and optimimization | $ | 16,000.00 | 1 | $ | 16,000.00 |
| Monthly routine O&M | $ | 3,100.00 | 30 | $ | 93,000.00 |
| Annual non-routine maintenance and replacement | $ | 7,500.00 | 2.5 | $ | 18,750.00 |
| | | | | $ | 365,050.00 |
| | | | | | |
| Other tasks | | | | | |
| Data gaps investigation (well, conduit survey; vapor survey, add'l MWs) | $ | 28,000.00 | 1 | $ | 28,000.00 |
| Groundwater Monitoring (quarterly to 1 year after operation, semi-annual for 2 additional years | $ | 5,150.00 | 16 | $ | 82,400.00 |
| Closure tasks (report, well & system decommissioning) | $ | 43,000.00 | 1 | $ | 43,000.00 |
| | | | | $ | 153,400.00 |
| | | | | | |
| | | | Estimated total: | $ | 518,450.00 |