

December 7, 2012

Karel Detterman, P.G.  
Alameda County Health Care Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**RECEIVED**

10:22 am, Dec 11, 2012

Alameda County  
Environmental Health

**RE: Soil and Groundwater Investigation Report**

**SITE: Kroger Residential Property**  
**725 Central Avenue, Alameda, California**  
**ACHCSA Fuel Leak Case No. RO0003071**  
**GGE Project 2043**

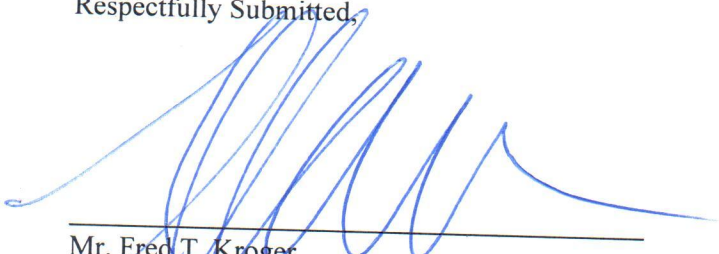
Dear Ms. Detterman:

Upon my authorization, Golden Gate Environmental, Inc. (GGE) has prepared a *Soil and Groundwater Investigation Report* (Dated December 6, 2012) for the preliminary environmental site investigation activities conducted in October 2012 in the vicinity of the former 1,500-gallon diesel underground storage tank at the above-referenced property. The Alameda County Health Care Services Agency conditionally approved the preliminary soil and groundwater investigation work in its letter dated August 2, 2012.

GGE has uploaded an electronic copy of the document to the State Water Resources Control Board's GeoTracker Database System. Should you have any questions, please contact Mr. Brent Wheeler, Project Engineer of GGE at (415) 970-9088 at your convenience.

I declare, under penalty of perjury, that I have reviewed the attached *Soil and Groundwater Investigation Report* and the information and/or proposed work scope contained in the document are true and correct to the best of my knowledge.

Respectfully Submitted,



Mr. Fred T. Kroger  
Kroger Family Trust  
Post Office Box 11244  
Piedmont, California 94611-0244

Distribution: (1) Addressee



## SOIL AND GROUNDWATER INVESTIGATION REPORT

**Kroger Residential Property  
725 Central Avenue  
Alameda, California 94501  
ACHCSA RO0003071**

Prepared For:

Mr. Fred Kroger  
P.O. Box 11244  
Piedmont, CA 94611

Prepared By:

Golden Gate Environmental, Inc.  
1455 Yosemite Avenue  
San Francisco, CA 94124

GGE Project No. 2043  
December 6, 2012

*Mark Youngkin*  
Mark Youngkin  
Registered Geologist Project Engineer

*Brent A. Wheeler*  
Brent A. Wheeler

REGISTERED GEOLOGIST  
MARK  
YOUNGKIN  
No. 1380  
CERTIFIED  
ENGINEERING  
GEOLOGIST  
Exp: 4-30-13  
STATE OF CALIFORNIA

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757 Santa Clara Avenue, Alameda, California

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# SOIL AND GROUNDWATER INVESTIGATION REPORT

**Kroger Residential Property**  
**725 Central Avenue, Alameda, California**  
**ACHCSA RO0003071**

## INTRODUCTION

### Purpose

On behalf of Mr. Fred Kroger and the Kroger Trust et al, Golden Gate Environmental, Inc. (GGE) is pleased to submit this report, which discusses the activities and findings of the preliminary soil and groundwater investigation activities, conducted in October 2012 at the Kroger Residential Property located at 725 Central Avenue in Alameda, California (the Site). The report was prepared in response to an April 19, 2012 letter issued by the Alameda County Environmental Health (ACEH; Site #RO0003071), which requested a soil and groundwater investigation to assess the presence and extent of contamination in soil and groundwater in the direct vicinity of the former underground storage tank (UST) removed from the Site in September 2008.

The purpose of this report is to present the activities and findings of the subsurface investigation performed at the Site, and based on evaluation and interpretation of the data obtained, provide findings and recommendations for additionally required investigation or Site closure review. The investigation activities were conducted in general accordance with our *Soil and Groundwater Investigation Work Plan* dated June 21, 2012, which was conditionally approved by the ACEH in a letter dated August 2, 2012. The general scope of work proposed in the work plan included drilling three subsurface soil borings and collecting representative soil and grab groundwater samples for laboratory analysis. The investigation activities were performed in general accordance with the State Water Resources Control Board's Leaking Underground Fuel Tank (LUFT) manual and the TRI-Regional Board Staff Recommendation for Preliminary Evaluation and Investigation of Underground Tank Sites. A Copy of the ACEH August 2, 2012 Work Plan Approval Letter is presented in Appendix A.

### Scope of Work

The general scope of work conducted at the site included the following:

- Pre-field work activities and permitting
- Soil boring activities
- Soil and grab groundwater sampling activities
- Sample handling and transportation
- Backfilling activities
- Sample analysis

- Waste Management
- Data interpretation, report preparation and submittal.

### **Site Location and Description**

The Site is located at the north side of Central Avenue, approximately 300 feet east of Webster Street, in the City and County of Alameda. The Site lies approximately 0.2 mile north-northeast and presumed up gradient from the San Francisco Bay (at Robert Crown Memorial State Beach Inlet). The location of the Site is shown in the attached Figure 1 - *Site Location Map*.

According to Figure 1, the elevation of the Site is estimated to be approximately 20 feet above Mean Sea Level. The Site consists of a rectangular multi-unit apartment building with a front landscaped area and an additional parking area in the rear. The Site occupies approximately 11,500 square feet (0.26 acre) in lot area and is currently owned by the Fred Kroger Trust (Alameda County Assessor Parcel 73-423-15-1).

The Site is relatively flat lying with the topographic relief generally directed towards the south-southwest (Figure 1), in the general direction of the San Francisco Bay. A multi-story, apartment building, approximately 7,000 square feet in area, is situated on the majority of the Site, with a driveway on the west side of the building providing access for tenant vehicular parking in the rear of the property. The surface area leading to the rear garage and rear parking area are completely paved with concrete. The rear parking area is enclosed with cyclone fencing to the north and east, and a concrete cinderblock wall to the west (adjacent to the west side of the driveway leading to Central Avenue). The front entryway of the building is paved throughout with stamped concrete with small landscaped/lawn areas on each side of the entryway (Figure 2). The City right of way sidewalk borders the south property line.

One 1500-gallon underground heating oil storage tank (UST) was located beneath the sidewalk in front of the southeast corner of the Site and removed by Golden Gate Tank Removal, Inc. (GGTR) in September 2008. The attached Figure 2 titled *Site Plan* shows general Site features and the location of the former UST.

### **Site Geology and Hydrogeology**

According to a Geologic Map of the San Francisco-San Jose Quadrangle (California Department of Conservation, 1990), the Site lies on sand or artificial fill and is underlain by up to 500 feet of Quaternary alluvial deposits (unconsolidated and dissected stream and basin deposits) and possibly marine sandstone, shale, cherts, and conglomerates of the Mesozoic Franciscan Complex (thickness not established). The geologic map also indicates that the Site is situated approximately 5 miles southwest and 16 miles northeast of the Hayward and San Andreas Fault Zones, respectively.

The Site is in the East Bay Plain groundwater basin according to the San Francisco Bay Basin Water Quality Control Plan prepared by the CRWQCB – Region 2, 1995.

Groundwater in this basin is designated beneficial for municipal and domestic water supply and industrial process, service water, and agricultural water supply.

The regional groundwater flow direction in the vicinity of the Site is estimated to be toward the south-southwest, in the general direction of the San Francisco Bay and decreasing topographic relief. The Site specific groundwater flow direction and gradient is unknown at this time. Based on information provided by the State Water Resources Control Board GeoTracker Database system, the depth to groundwater measured in active monitoring wells located at the northwest corner of Lincoln Avenue and Webster Street (Shell Service Station #13-5032; RO0002745) ranged between 6.5 and 8 fbg (February 2012). Also, the depth to groundwater measured in temporary borehole piezometers formerly located at the residential property at 757 Santa Clara Avenue (RO0002957), ranged between 7.4 and 8.3 fbg (March 2008). The nearest surface water body is the Robert Crown Memorial State Beach Inlet of the San Francisco Bay, located approximately 0.2 mile south-southwest of the Site (Figure 1).

### **Site Subsurface Geology and Hydrogeology**

Shallow subsurface soil texture logged during the October 2012 soil boring and sampling activities, was predominantly a moist to wet, dark yellowish brown to dark brown, fine-grained silty/clayey sand to the total explored depth of 13 feet below grade (fbg). See the Boring Logs in Appendix B for details. No identifiable petroleum staining or hydrocarbon odor was observed in any of the soils logged or sampled in the three borings. The measured depth to groundwater at the Site measured during drilling activities on October 15, 2012, was between 10.5 and 11.0 fbg (non-static). A temporary wellhead elevation survey was not performed during this event and the site-specific groundwater elevation and flow direction were not measured.

### **Environmental Background**

On September 23, 2008, GGTR removed one 1500-gallon UST at the approximate location shown in the attached Figure 2 – *Site Plan*. The UST contained residual diesel fuel and resembled a common heating oil storage tank associated with the adjacent apartment building. The bottom of the UST was located at nine feet below grade. No soil discoloration was observed in the tank overburden soil or in soil underlying the tank. No hydrocarbon odors were noted in the overburden soil or in the soil underlying the tank. The tank was observed to be in poor condition with at least one visible hole. During removal activities, the subsurface product piping extending between the top of the tank and the foundation of the exterior building structure was cut at each end, drained of any residual product and removed from the excavation area. The subsurface piping remaining in place at the building perimeter was filled with concrete and capped.

GGTR collected a discrete confirmation soil sample from the center of the excavation approximately 2 feet below the tank bottom at 11 feet below grade (fbg). GGTR also collected a four point composite soil sample from the excavation overburden stockpile. The confirmation soil sample contained no detectable concentration of total petroleum hydrocarbons as diesel (TPH-D) at <1.0 milligrams per kilograms (mg/kg). The overburden

stockpile soil sample contained a concentration of total petroleum hydrocarbons as diesel (TPH-D) at 23 mg/kg. The laboratory indicated that the detectable concentration does not resemble the typical chromatographic pattern for diesel. The compounds benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE) and other fuel oxygenates were not detected in the confirmation soil sample or the composite soil sample. Groundwater was not encountered during the UST removal and sampling activities. Figure 2, attached, depicts the approximate location of the discrete and stockpile confirmation soil samples. The attached Table 1 titled *UST Removal Sampling Results Form* summarizes the results of the UST removal samples collected in September 2008.

With the approval of Mr. Robert Weston of the ACHCSA, GGTR backfilled the excavation with the UST excavation overburden soil (3-9 fbg) and clean imported Class II baserock (0.5-3 fbg), and the overlying sidewalk was replaced with concrete according to City of Alameda Department of Public Works (CADPW) requirements. UST removal and sampling activities were conducted under the direct supervision of Mr. Robert Weston of the ACHCSA. Additional details including sample analytical results are included GGTR's *Tank Closure Report*, dated October 27, 2008.

Based on the deteriorated tank condition and soil sample analytical results, the ACHCSA requested a work plan to assess the presence and extent of contamination in the vicinity of the former UST, and whether hydrocarbons have impacted the groundwater beneath the Site. On May 29, 2012, Mr. Fred Kroger contracted GGE to prepare the requested work plan and implement the proposed work plan activities upon approval by the ACHCSA. On June 21, 2012, GGE submitted its *Soil and Groundwater Investigation Work Plan* to the ACEH Cleanup Oversight Program's FTP site, which was conditionally approved in a letter dated August 2, 2012. The findings and results of the Preliminary Soil and Groundwater Investigation activities are presented in the following sections.

## **INVESTIGATION ACTIVITIES**

### **Sequence of Work**

The following is the sequence of the Soil and Groundwater Investigation activities performed at the Site in August and October 2012:

- Obtained a Drilling Permit from the Alameda County Public Works Agency (ACPWA)-Water Resources Division
- Prepared a Traffic Control Plan for pedestrian diversion during work activities conducted in the public right-of-way; Obtained Soil Boring Permit and an Encroachment Permit from the City of Alameda DPW Engineering Division for work conducted in the public right of way
- Prepared a Site-specific Health & Safety Plan



- Outlined the proposed work area and boring locations in white surface paint and notified Underground Service Alert (USA) for subsurface utility clearance
- Notified all representative parties of scheduled field activities
- Conducted soil boring and sampling activities
- Submitted all soil and grab groundwater samples to a State-certified environmental laboratory for analysis
- Profiled, transported, and disposed of all generated soil and liquid wastes to a State-licensed disposal/recycling facility
- Interpreted all field and analytical data and prepared a report summarizing the activities, findings, and conclusions of the investigation
- Uploaded all analytical data to State Geo Tracker Database System.

### **Pre-Field Activities**

Prior to commencing all fieldwork, GGE scheduled John Carver Civil Engineering (JCCE) of Oakland, California for the proposed percussion drilling activities at the Site. GGE obtained drilling Permit No. WR2008-0071 from the ACPWA-Water Resources Division, Right-of-Way Permit No. EX12-0039 and Encroachment Permit No. EN12-0152 from the City of Alameda DPW. GGE also prepared a Community Site Health and Safety Plan (HASP) for all field activities performed at the Site. GGE then notified all property representatives and regulatory personnel of all scheduled fieldwork dates. GGE marked the general work area and proposed boring locations in white surface paint and notified USA at least 72 hours prior to commencement of drilling activities, so that any subsurface utilities extending through the work area are located. A copy of the ACPWA and City drilling/encroachment permits is included in Appendix A.

Proposed boring locations were chosen in areas free of conflict with overhead utility lines and marked subsurface utilities, and in areas accessible for hand augering equipment and a limited access, trailer-mounted GeoProbe® drill rig (B1). Actual boring locations were determined by on-site field personnel during drilling activities, and are shown in Figure 2 - *Site Plan*.

### **Drilling and Soil Sampling Activities**

On October 15, 2012, GGE contracted JCCE (State Contractors C-57 License #407379) to perform the soil boring and sampling activities at the Site. GGE initially conducted a safety tailgate meeting with all pertinent Site personnel to discuss all information provided in the project Health and Safety Plan. JCCE initially hand-augured each proposed exploratory boring (B1 through B3) to approximately 5 fbg to clear for any unmarked utilities. Due to the

presence of sandy subsurface soils, JCCE indicated that drilling the borings utilizing hand-auguring equipment was feasible for this Site. Because of access constraints involved with the use of the proposed percussion drilling rig and to allow for pedestrian sidewalk traffic along the Central Avenue frontage, GGE directed JCCE to advance all exploratory borings using hand drilling equipment only. Figure 2, Site Plan, depicts each soil boring location.

JCCE continued hand drilling each boring to approximately 13 fbg and continuously logged all auger cuttings. GGE and JCCE recovered discrete soil samples in each boring at 5 and 9.5 fbg in undisturbed soil utilizing a slide-hammer and 2-inch-diameter, brass tube-lined, remote core sampler (3-inch length). No soil samples could be recovered from water saturated sand at the total depth of each boring. At the bottom section of each sample interval and at selected depths in each boring, GGE placed a small volume of soil in a plastic Ziploc baggie, and subsequently monitored / recorded the organic vapor concentrations of each bagged sample using a Mini Rae® Photoionization Detector (PID). GGE classified and logged all soil samples and hand auger soil cuttings using the Unified Soil Classification System and Munsell Rock Color Chart. Boring logs B1 through B3 are presented in Appendix B.

Immediately following soil sample collection, GGE sealed the ends of each sample tube with Teflon® tape and plastic caps, appropriately labeled each tube and transferred the samples to a cooler chilled with blue ice. The core sampler was decontaminated between each sample interval using an Alconox® solution and double rinsed with clean, potable water. Auger soil cuttings and equipment wash / rinse water was transferred to separate 55-gallon D.O.T.-approved steel drums and temporarily stored onsite.

### **Sample Analysis**

The discrete soil samples were submitted under chain of custody command to Torrent Laboratory, Inc. of Milpitas, California (State ELAP #1991), and analyzed for the following compounds using approved Environmental Protection Agency (EPA) methods:

- TPH as Diesel (TPH-D) by Analysis Method SW8015B(M)
- BTEX by Analysis Method SW8260B
- Fuel Oxygenates by Analysis Method SW8260B with addition of EDB and EDC

The attached Table 2 includes a summary the laboratory analytical results of the soil samples collected from borings B1 through B3. A copy of the laboratory analytical report, QA/QC report, and chain of custody record is included in Appendix C.

### **Grab Groundwater Sampling Activities**

Immediately following soil sampling activities in soil borings B1 through B3; JCCE placed temporary 0.75-inch-diameter, factory-sealed, screened piezometer casing to the total depth of each borehole at approximately 13 fbg. JCCE monitored and recorded the depth to groundwater in each borehole relative to grade surface using an electronic water level indicator. GGE collected a grab groundwater sample from the temporary casing in borings B1 through B3 using a peristaltic pump with dedicated polyethylene tubing. GGE carefully

drained the groundwater sample from the effluent end of the peristaltic pump tubing directly into laboratory-cleaned amber 1-liter bottles and 40-milliliter volatile organic analysis (VOA) vials. GGE sealed each sample container with a threaded cap and inverted the VOA vials to insure no headspaces or entrapped air bubbles were present. GGE appropriately labeled each sample container and immediately placed the samples in a cooler chilled to approximately 4° Centigrade.

### **Grab Groundwater Sample Analysis**

All groundwater samples were submitted under chain of custody command to Torrent Laboratory, Inc. of Milpitas, California (State ELAP #1991), and analyzed for the following compounds using approved Environmental Protection Agency (EPA) methods:

- TPH as Diesel (TPH-D) by Analysis Method SW8015B(M)
- BTEX by Analysis Method SW8260B
- Fuel Oxygenates by Analysis Method SW8260B with addition of EDB and EDC

The attached Table 3 presents a summary the laboratory analytical results of the grab groundwater samples collected from borings B1 through B3. A copy of the laboratory analytical report, QA/QC report, and chain of custody record is included in Appendix C.

### **Backfilling Activities**

GGE subsequently extracted the temporary piezometer casing and backfilled each open borehole with neat Portland cement to approximately 0.5 foot below grade surface. To restore original Site conditions, GGE backfilled the balance of B1 (parking strip) with surface concrete, as inspected and approved by the City of Alameda DPW. The balance of borings B2 & B3 were backfilled w/ top soil and or grass sod material.

### **Waste Management**

Auger soil cuttings and the equipment wash and rinse water generated during the October 2012 drilling/sampling activities were transferred to separate 55-gallon D.O.T.-approved steel drums, appropriately labeled, sealed, and temporarily stored on site in a secure area pending final disposal at a State-licensed recycling facility. On November 29, 2012, Icon Environmental transported the drums containing the auger soil cuttings (@ 200 pounds) and wash/rinse water (15 gallons) under Non- Hazardous Waste Manifest No. 6951, to the Icon facility in Richmond, California. A copy of the liquid waste manifest is presented in Appendix C.

### **GeoTracker/ACEH FTP Upload**

All soil/groundwater sample analytical data collected during the preliminary Site characterization activities were uploaded in Electronic Deliverable Format to the State Water Resources Control Board's GeoTracker Database System. Also, geologic boring logs, a scaled Site Plan, and report prepared during this investigation were uploaded in PDF format to the State GeoTracker Database. GGE also uploaded a copy of the report to the ACEH's FTP Site. Copies of the GeoTracker upload confirmation sheets are included in Appendix C.

## **Findings of Investigation**

The following is a summary of the findings of the preliminary site characterization activities:

### ***General Site Conditions***

- On October 15, 2012, JCCE & GGE hand-drilled three (3) subsurface investigative borings, B1 through B3, to approximately 13 fbg to evaluate the extent of hydrocarbon-affected soil and groundwater in the direct vicinity of the former 1500-gallon heating oil UST removed in September 2008. Boring B3 was located within the former UST excavation. Borings B1 and B2 were located on north and south side of the UST in the presumed down-gradient and up-gradient directions. GGE recovered discrete soil samples in each exploratory boring at the vadose zone from 5 fbg and at the groundwater interface zone from 9.5 fbg for a total of six discrete soil samples. JCCE placed temporary well casing in borings B1 through B3 to the total depth at 13 fbg and measured standing water at 10.5-11 fbg. GGE collected a grab groundwater sample from the slotted casing in each boring for a total of three groundwater samples. Each borehole was subsequently backfilled and the surface restored, pursuant to ACPWA and City of Alameda DPW requirements and final inspection.
- The property is currently occupied by a multi-family residential building. The property consists of a rectangular Site occupying 11,500 square feet (0.26 acre) in lot area. The elevation of the site is approximately 20 feet above Mean Sea Level (Figure 1).
- Subsurface soil encountered beneath the Site during the preliminary soil and groundwater investigation activities was predominantly a moist to wet, dark yellowish brown to dark brown, fine-grained silty/clayey sand to the total explored sample depth of 13 fbg (See Boring Logs, Appendix B). No staining or hydrocarbon odor was observed in soil from any of the borings. No VOCs were detected in soil recovered from each boring as measured with a PID.
- The regional groundwater flow direction in the vicinity of the Site is estimated to be toward the south-southwest in the general direction of the San Francisco Bay and decreasing topographic relief. The depth to groundwater at the Site as measured during drilling activities on October 15, 2012, was between approximately 10.5 and 11.0 fbg (non-static). A temporary wellhead elevation survey was not performed during this event, and the site-specific groundwater elevation and flow direction were not measured.

***Soil Analytical Data (Refer To Attached Table 2)***

- The soil samples collected in borings B1, B2, and B3 at 5 and 9.5 fbg, contained non-detectable concentrations of TPH as Diesel, BTEX, and Fuel Oxygenates.
- The non-detectable result of soil sampling confirms the absence of petroleum hydrocarbons in shallow soil beneath the center of the former UST removed from the property in September 2008.

***Grab Groundwater Analytical Data (Refer To Attached Table 3)***

- The grab groundwater samples collected in borings B1 through B3 contained non-detectable concentrations of TPH as Diesel, BTEX, and Fuel Oxygenates (including MTBE).
- The non-detectable result of grab groundwater sampling confirms the absence of petroleum hydrocarbons in shallow groundwater in the vicinity of the former UST removed from the property in September 2008.

**Conclusions / Recommendation**

Based on the findings of the October 2012 soil and groundwater investigation activities presented above, GGE concludes that the soil and groundwater beneath the former location of the 1500-gallon heating oil tank has not been significantly impacted by diesel-range petroleum hydrocarbons, BTEX or fuel oxygenates. The shallow soil and groundwater in the vicinity of the former UST has been adequately assessed. GGE recommends no further action at the former UST location and suggests that the ACEH initiate case closure review.

**Report Distribution**

This document and all subsequent reports that are prepared during the continuing work on this project will be sent to:

Alameda County Health Care Services Agency      *(1 Copy, copied to FTP Site)*  
Environmental Health Services      *(1 Electronic Copy via GeoTracker)*  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577  
*Attn: Ms. Karel Detterman*  
[karel.detterman@acgov.org](mailto:karel.detterman@acgov.org)

Mr. Fred Kroger      *(2 Copies, Bound)*  
P.O. Box 11244      *(1 Electronic Copy via Email)*  
Piedmont, California 94611  
[ftccoinc@gmail.com](mailto:ftccoinc@gmail.com)

Ms. Elsie Hamilton      *(1 Electronic Copy via Email)*  
[woodleafrentals@gmail.com](mailto:woodleafrentals@gmail.com)

### **Limitations**

This document has been prepared in accordance with generally accepted environmental practices exercised by professional geologists, scientists, and engineers. No warranty, either expressed or implied, is made as to the professional advice presented herein. The proposed activities contained in this report are based upon information contained in previous reports of corrective action activities performed at the subject property and based upon site conditions, as they existed at the time of the investigation, and are subject to change.

The professional opinions presented herein are based solely upon visual observations of the subject property and vicinity, and interpretation of available information as described in this report. The scope of services conducted in execution of this investigation may not be appropriate to satisfy the needs of other users and any use or reuse of this document and any of its information presented herein is at sole risk of said user.

### **References**

California Regional Water Quality Control Board, San Francisco Bay Region. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater; Interim Final – November 2007 (Revised May 2008).

California Regional Water Quality Control Board, San Francisco Bay Region, 1995. Water Quality Control Plan, San Francisco Bay Region.

California Regional Water Quality Control Board, San Francisco Bay Region. Tri-Regional Staff Recommendations for Preliminary Evaluation and Investigation of Underground Storage Tank Sites, August 1990.

California Division of Mines & Geology, 1990. Geologic Map of the San Francisco-San Jose Quadrangle, Wagner, D.L., Bortugno, E.J., and McJunkin, R.D.

Geological Society of America, 1991. Munsell Rock Color Chart.

GGTR. Tank Closure Report, 725 Central Avenue, Alameda, California. October 27, 2008.

GGE. Soil and Groundwater Investigation Workplan, 725 Central Avenue, Alameda, California. June 21, 2012. Project No. 2043.

**TABLE 1**  
**Historical Results of Tank Removal Sample Analysis**  
**725 Central Avenue, Alameda, CA**

Sample ID	Sample Depth (fbg)	Sample Date	TPH-D (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)	OXY (ppm)	LEAD (ppm)
9029-SP (A-D) (Stockpile)	Not Applicable	9/23/2008	23*	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND≤0.094	12
9029-C-11 (Excavation)	11	9/23/2008	ND<1.0	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND≤0.094	NA

**Notes:**

TPH-D = Total Petroleum Hydrocarbons as diesel

BTEX = benzene, toluene, ethylbenzene, total xylenes

OXY = Fuel Oxygenates including methyl tertiary-butyl ether (MTBE), tert butyl alcohol (TBA), ethyl tert butyl alcohol (ETBA), and tert amyl methyl ether (TAME)

fbg = Feet below grade

ppm = parts per million

\* = Sample exhibits chromatographic pattern that does not resemble standard

NA = Not Analyzed

ND = Not Detected

**TABLE 2**  
**Results of Subsurface Boring Soil Sample Analysis**  
**725 Central Avenue, Alameda, CA**

Boring Location	Sample ID	Sample Date	Sample Depth (fbg)	TPH-D (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA/DIPE/ETBE/TAME/EDB/EDC (mg/kg)
<b>B1</b>	B1-5	10/15/2012	5	ND<2.0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050
	B1-9.5	10/15/2012	9.5	ND<2.0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050
<b>B2</b>	B2-5	10/15/2012	5	ND<2.0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050
	B2-9.5	10/15/2012	9.5	ND<2.0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050
<b>B3</b>	B3-5	10/15/2012	5	ND<8.0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050
	B3-9.5	10/15/2012	9.5	ND<2.0	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.050
CRWQCB November 2007 ESL				83	0.044	2.9	2.3	2.3	0.023	0.075/NE/NE/NE/NE/NE

**Notes:**

TPH-D = Total Petroleum Hydrocarbons as Diesel

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE = Methyl tertiary-butyl ether

TBA = Tert-Butanol

DIPE = Di isopropyl Ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl Methyl Ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

fbg = feet below grade surface

mg/kg = milligrams per kilogram

ND = Not Detected

NE = Not Established

CRWQCB November 2007 / ESL: California Regional Water Quality Control Board / Environmental Screening Levels for shallow soils ( $\leq$  10fbg) in Residential Land Use, where groundwater *IS* a current or potential source of drinking water.



**TABLE 3**  
**Results of Grab Groundwater Sample Analysis**  
**725 Central Avenue, Alameda, CA**

Boring Location	Sample ID	Sample Date	Depth to GW (fbg)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TBA/DIPE/ETBE/TAME/EDB/EDC (ug/L)
<b>B1</b>	B1-GW	10/15/2012	11	ND<130	ND<0.5	ND<0.5	ND<0.5	ND≤1.0	ND<0.5	ND≤5
<b>B2</b>	B2-GW	10/15/2012	11	ND<130	ND<0.5	ND<0.5	ND<0.5	ND≤1.0	ND<0.5	ND≤5
<b>B3</b>	B3-GW	10/15/2012	10.5	ND<100	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND≤5
CRWQCB November 2007 ESL				100	1	40	30	20	5	12/NE/NE/NE/NE/NE

**Notes:**

GW = Groundwater; fbg - feet below grade surface

TPH-D = Total Petroleum Hydrocarbons as Diesel

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE = Methyl tertiary-butyl

TBA = Tert-Butanol

DIPE = Diisopropyl Ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl Methyl Ether

EDB = 1,2-Dibromoethane

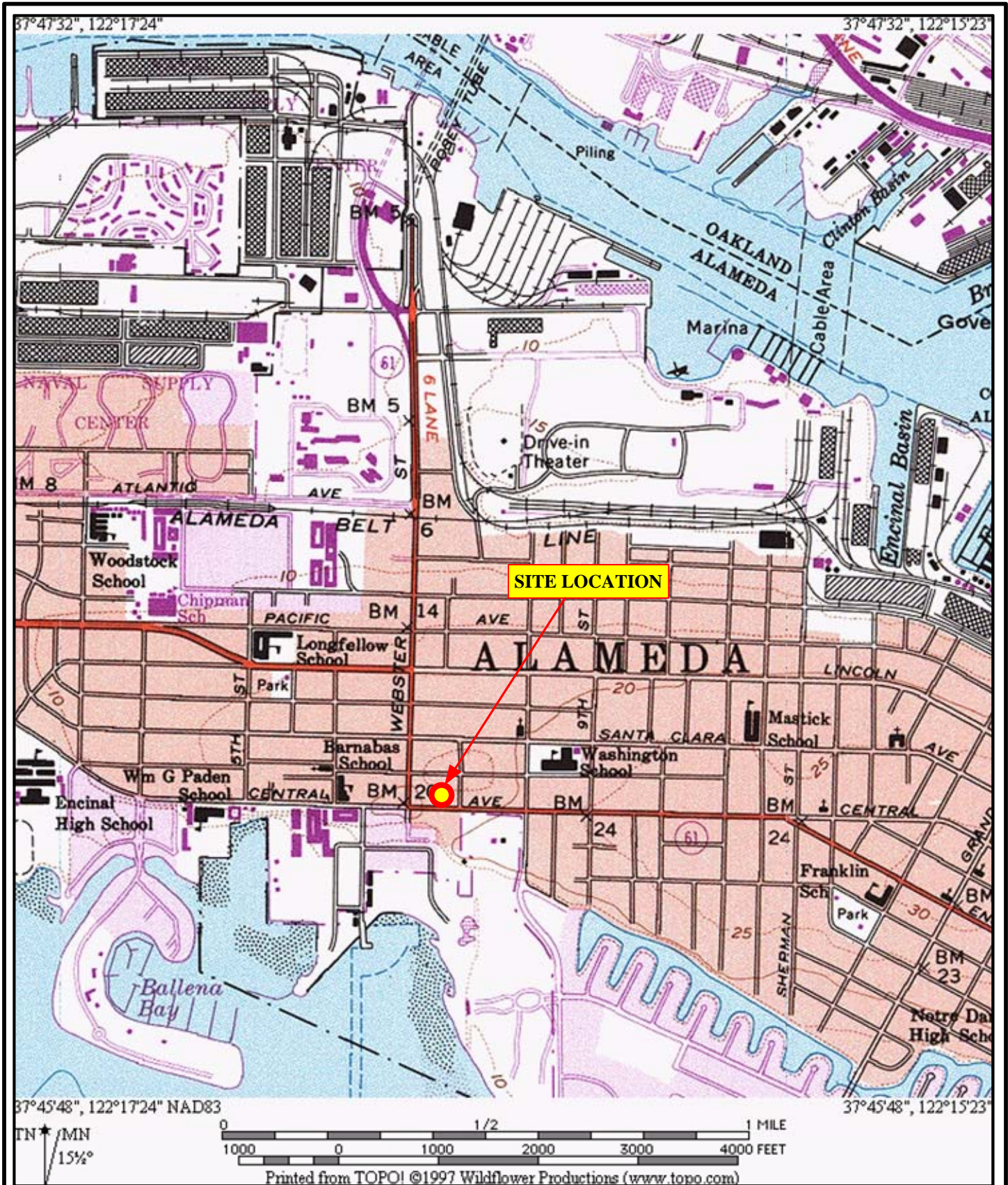
EDC = 1,2-Dichloroethane

ug/L = micrograms per liter

NE = Not Established

ND = Not Detected

CRWQCB November 2007 / ESL: California Regional Water Quality Control Board / Environmental Screening Levels for groundwater that *IS* a current or potential source of drinking water (Residential Land Use).



**GOLDEN GATE ENVIRONMENTAL, INC.**

1455 Yosemite Avenue  
 San Francisco, CA 94124  
 Ph (415) 970-9088 Fx (415) 970-9089

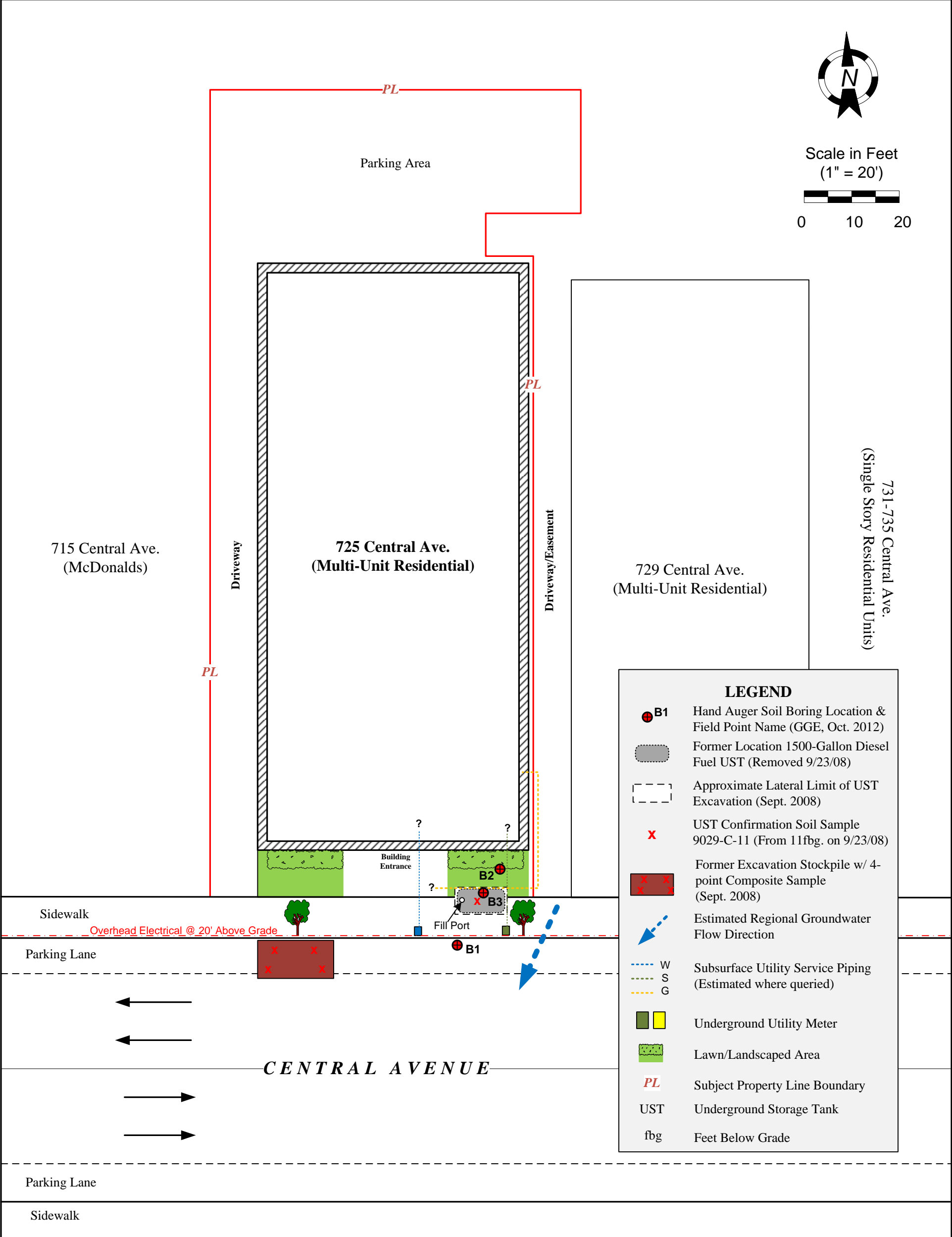
**SITE LOCATION MAP**

725 Central Avenue  
 Alameda, California 94501





Scale in Feet  
(1" = 20')



**LEGEND**

- B1** Hand Auger Soil Boring Location & Field Point Name (GGE, Oct. 2012)
- Former Location 1500-Gallon Diesel Fuel UST (Removed 9/23/08)
- Approximate Lateral Limit of UST Excavation (Sept. 2008)
- UST Confirmation Soil Sample 9029-C-11 (From 11fbg. on 9/23/08)
- Former Excavation Stockpile w/ 4-point Composite Sample (Sept. 2008)
- Estimated Regional Groundwater Flow Direction
- W S G Subsurface Utility Service Piping (Estimated where queried)
- Underground Utility Meter
- Lawn/Landscaped Area
- PL** Subject Property Line Boundary
- UST** Underground Storage Tank
- fbg** Feet Below Grade

<b>Garden Ct.</b>	Residential Property	Commercial Properties
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<p><b>GOLDEN GATE ENVIRONMENTAL, INC.</b> 1455 Yosemite Avenue, San Francisco, CA 94124 Phone: (415) 970-9088 Fax: (415) 970-9089</p>	<p><b>SITE PLAN</b> 725 Central Avenue Alameda, California 94501</p>
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GGE Project No. 2043	Fn: 2043_F2_Site Plan_112912	Figure By: BAW_Nov. 2012	<b>Figure 2</b>
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## **APPENDIX A**

### **PERMITS**

Golden Gate Environmental, Inc.  
1455 Yosemite Avenue  
San Francisco, CA 94124

GGE Project No. 2043

# Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 08/27/2012 By jamesy

Permit Numbers: W2012-0610  
Permits Valid from 09/06/2012 to 09/13/2012

Application Id: 1345667257391  
Site Location: 725 Central Avenue  
Project Start Date: 09/06/2012  
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: Alameda

Completion Date: 09/13/2012

Applicant: Golden Gate Environmental, Inc. - Brent Wheeler  
1455 Yosemite Avenue, San Francisco, CA 94124

Phone: 415-970-9088

Property Owner: Fred Kroger  
P.O. Box 11244, Piedmont, CA 94611  
Client: \*\* same as Property Owner \*\*

Phone: 510-654-3822

Total Due: \$265.00  
Receipt Number: WR2012-0271 Total Amount Paid: \$265.00  
Payer Name : Timothy P. Hallen, Golden Gate Paid By: VISA PAID IN FULL  
Tank

## Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitoring Study - 3 Boreholes  
Driller: John Carver Civil Engineering - Lic #: 407379 - Method: DP

Work Total: \$265.00

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-0610	08/27/2012	12/05/2012	3	2.00 in.	15.00 ft

### Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

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

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

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

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# City of Alameda



## Interdepartmental Memorandum

Date: September 24, 2012

To: Permit Office

From: Ahmed Aly  
Associate Civil Engineer  
Public Works Department

Re: Permit No. EX12-0039, 725 Central Ave, Environmental Subsurface Investigation – (2)  
Soil Borings in Public Right-of-Way

---

Job Address: 725 Central Ave

Applicant: Golden Gate Engineering  
1455 Yosemite Ave  
San Francisco, CA 94124

### **APPROVAL NOTICE**

The following conditions of approval are the City of Alameda's requirements for permitted construction activity occurring within the public right-of-way and shall be enforced, as necessary, by the Public Work's right-of-way inspection staff. The permittee and/or his contractor(s) shall abide by the following provisions:

### **Specific Comments:**

#### Civil

1. Existing Utilities: The contractor must protect all existing facilities in place. This permit does not authorize the removal or destruction of any existing utility.

#### Traffic

1. The work times shall be limited to 9:00 a.m. to 4:00 p.m.
2. Maintain at least 4 feet of sidewalk width for pedestrians and ADA.

These comments are only for the traffic control plan. Other departments, or divisions, may have additional comments/requirements for the actual permit. If you have any questions or comments regarding the traffic comments, please contact Alan Ta at (510) 747-7930.

**General Comments (inspector will enforce the comments that are applicable):**

1. Public Notifications: All property owners within the immediate vicinity of the work area must be notified in writing at least 5 days prior to the start of construction. The notification letter must include a brief description of the work, the anticipated project completion date and a contact name and phone number for citizens to report their concerns while work is in progress.
2. “No Parking” Signs: Posting of “No-Parking” signs including side streets, as applicable, is required 48 hours in advance. “No-Parking” signs are available at the Planning and Building Department, Room 190, City Hall. A fee will be charged for the signs. Only City of Alameda issued “No-Parking” signs are permitted for use within the public right-of-way.
3. Designated Truck Routes: All truck deliveries to the proposed work site must remain on established truck routes.
4. Work Hours: Unless stated otherwise in the specific comments, work hours are limited to the hours of 8:30 a.m. to 4:30 p.m., Monday through Friday. Be advised that uninterrupted traffic circulation within the public right-of-way is mandatory during the commute hour of 7:30 a.m. to 9:00 a.m. and 3:00 p.m. to 4:30 p.m. Work done on Saturdays, requiring inspection, is prohibited unless approved by the City Engineer and an inspector is available. Requests to work Saturday require two-week minimum prior notice. Inspection fees for Saturday work will be at time and a half (1-1/2) with a four-hour minimum. Said fee will be in accordance with the latest public works fee overtime schedule. No construction activity shall be permitted on Sundays or State and Federal holidays.
5. Construction Staging: Storage of construction materials and equipment within the public right-of-way is not permitted.
6. URCWP (General/As Applicable): Construction materials (i.e. cement bags, paints, flammables, oils, fertilizers, pesticides, or any other materials that have potential for being discharged into the storm drain system by wind or as the result of a material spill) shall be kept in a contained and covered area on-site, as is practical, while construction is in progress. When feasible, tarps shall be used on the ground to collect fallen debris or splatters that could contribute to stormwater pollution. All temporary construction piles may remain on-site no more than 48 hours (continuous) and shall be securely covered overnight with a tarp or other device to contain debris. All construction debris shall be gathered and properly disposed of off-site on a regular basis.
7. Noise Generating Construction Activity: Maintain construction noise, dust control and cleanup to City acceptable levels. Construction equipment shall be properly muffled. Unnecessary idling of excavation and/or grading equipment is prohibited. Stationary noise-generating construction equipment such as compressors shall be located as far as practical from occupied residential housing units. Contractor shall be responsible for responding to any local complaints about construction noise.



8. Daily Work Site Cleanup: Trash and debris shall be cleaned up daily. Work area and haul routes shall be swept daily (with water sweepers) to remove construction-related materials. All construction debris shall be gathered on a regular basis and placed in a dumpster which is emptied or removed weekly. Any temporary on-site construction piles shall be securely covered with a tarp or other device to contain debris. Construction and demolition debris, and recycling, disposal shall be in accordance to the Alameda Municipal Code, Chapter XXI.
9. Storm Water BMP: Construction equipment, tools, etc. shall not be cleaned or rinsed into a street, gutter or storm drain. Concrete trucks and concrete finishing operations shall not discharge wash water into the street gutters or drains. There shall be no debris in the gutters. A contained and covered area on-site shall be used for storage of cement bags, paints, flammables, oils, fertilizers, pesticides, or any other materials that have potential for being discharged to the storm drain system by wind or in the event of a material spill. When feasible, tarps shall be used on the ground to collect fallen debris or splatters that could contribute to storm water pollution. Construction best management practices (BMP) for control of storm water runoff (e.g. straw waddles at catch basin inlets) shall be used where applicable. Contact the Public Works Environmental Services Division, at (510) 749-5857 for information on best management practices.
10. USA: All utilities within the work area shall be located and marked by USA prior to commencing excavation, trenching, micro-tunneling, or boring operations.
11. Pavement, Traffic Striping & Detectors: If the street pavement in the vicinity of the job site is damaged as a result of construction activity, then either pavement repair/reconstruction or an asphalt concrete overlay shall be required, as determined by the City Engineer or assigned representative. Additionally, traffic striping & marking, signal detectors, curb, gutter and other concrete improvements, damaged as a result of construction shall be replaced to the satisfaction of the City Engineer or assigned representative. Installation and maintenance of temporary striping and pavement markers is required while work is ongoing.
12. Traffic Control:
  - The traffic control plan shall follow the standards and guidelines provided by the most recent version of the CA MUTCD and Caltrans Standard Plans.
  - The permittee is required to maintain the following minimum lane widths in each direction at all times:
    - one twelve (12) ft width lane on truck routes, bus routes, and paratransit routes
    - ten (10) ft otherwise
  - Where space is limited the permittee shall maintain one twelve (12) foot minimum width lane of travel with two flagmen directing traffic. If flaggers are used in the detour plan, they shall be shown in the drawings.
  - Unless otherwise stated in the specific comments, any lane closures shall only be between 9:00 A.M. and 3:00 P.M
  - Taper lengths, delineator spacing, and sign spacing shall be based on a traffic speed equal to the posted speed limit plus 5 MPH.

- One R4-7 sign shall be posted at the entrance of every coned centerline delineation.
  - The permittee shall also provide all lights, signs, barricades, flagmen, and/or other traffic safety devices necessary to provide public safety in accordance with Caltrans, Work Area Traffic Control Handbook and CAL-OSHA specifications. The Public Works Inspector may require implementation of additional traffic control measures while construction is in progress to address unforeseen field conditions.
  - In the event that the permittee substantially alters the approved traffic control plan, the permittee must allow a minimum of five (5) working days for review and approval of the revised plan. The traffic control plan must also address how to safely direct pedestrians within and around the construction zone.
  - Be advised that all property owners with dwellings fronting the project area must be allowed clear and safe ingress/egress at all times. The applicant must obtain approval from the property owner of any driveways being blocked.
  - Motorists, bicyclists, and pedestrians shall be properly detoured through temporary traffic control and to **appropriate crossing locations** whenever a sidewalk/crosswalk is closed. Only one crossing at an intersection shall be closed at any time. See the California MUTCD's Typical Application 28 for guidance. Pedestrian routes must be accessible in accordance with the Americans with Disabilities Act of 1990 (ADA).
  - Notify Gail Payne at the City of Alameda Public Works Department (510-747-7948) if the work zone is in or near a City of Alameda Paratransit Shuttle stop.
  - Work shall not interfere with A.C. Transit bus service in the area. If the work zone is in a bus stop, near a bus stop, or on a bus route, notify Cheryl Washington at AC Transit (510-891-4976) at least 2 weeks in advance of the work.
  - If flaggers are used in the detour plan, they shall be shown in the drawings.
13. “Bell-Hole” Excavation (As Applicable): Where there are multiple “Bell-Hole” excavations within close proximity of each other complete breakout and restoration of all existing A.C. between excavations is required. The locations where this condition applies shall be determined in the field as work progresses. All work shall be done to the satisfaction of the City Engineer or designated agent.
14. CCTV Inspection (As Applicable): Where boring or micro-tunneling work is proposed, all adjacent utility lines shall be closed circuit television (CCTV) inspected prior to the commencement of work and after the completion of work. Pipe cleaning shall be performed prior to CCTV inspection and all debris shall be removed from the pipeline. If the pipeline is damaged, it shall be replaced at the permittee's expense to the satisfaction of the City Engineer or his designated agent.
15. Open Trench Excavation: At no time shall there be more than 200 lineal feet of the trench opened along any single conduit alignment, including the section opened ahead of the pipe laying and the section behind the pipe laying which has not been completely backfilled and has a temporary cap. This also dictates the maximum length of right-of-way that may be posted with no parking signs at any one time.
16. Excavation Restoration: Excavation restoration in the roadway shall conform to City of Alameda Standard Plan 2930-22 (attached) and the following condition: At the direction of the City Engineer or assigned agent, pavement restoration may extend to a maximum

18" beyond the standard plan limits where existing adjacent pavement is raveled or alligatored. Pavement restoration shall include sawcut, removal of asphalt concrete, and replacement in kind in conjunction with the trench restoration/paving course. The limits of the area within the roadway to be repaved must be pre-approved by the City Inspector. All work shall be done to the satisfaction of the City Engineer or his assigned agent.

17. Hardscape Restoration: A concrete permit is required for the demolition and restoration of concrete curb, gutter and sidewalk within the public right-of-way. Concrete restoration of concrete curb, gutter, sidewalk and/or driveway within City right-of-way shall conform to City of Alameda Standard Plan 6297-24 (available upon request). Also, existing decorative concrete (e.g. tinted concrete, etc.) shall be replaced in kind and to the nearest expansion joint.
18. Site Restoration: Upon completion of the work all existing improvements within the project area (e.g. landscaping, irrigation, utilities, paths, area drainage, etc.) shall be completely restored to prior condition, or better, within five (5) working days of installation. Any damage within the public-right-of-way shall be replaced at the permittee's expense to the satisfaction of the City Engineer or his designated agent.
19. Construction Inspection: The permittee shall notify the Senior Inspector (510) 747-7930, 48-hours prior to beginning of any work within the City right-of-way. Work performed or covered without adequate notice will be subject to rejection.

Should you require further clarification regarding these comments, contact Ahmed Aly at (510) 747-7964.

G:\pubworks\Permits\2012\Excavation\EX12-0039.725 Central Ave.Soil Boring\EX12-0039.(A).GGE.bw.725 Central Ave.Soil Boring.doc

AA:aa



**CITY OF ALAMEDA**  
 2263 SANTA CLARA AVENUE, ROOM 190  
 ALAMEDA, CA 94501

(510) 747-6800  
 FAX (510) 865-4053

**ENCROACHMENT PERMIT: EN12-0152**

**Applicant Information**

GOLDEN GATE ENGINEERING  
 1955 POSEMETE AVE  
 SAN FRANCISCO CA 94124  
 415-970-9088

**Contractor Information**

**Owner Information**

KROGER FRED T & ROBBIN C TRS  
 ETAL  
 PO BOX 117  
 ORINDA CA 94563-0117

**Project Information**

Status: **Issued** Applied: **10/09/2012** Issued: **10/09/2012**  
 Type: **Encroachment Permit** Finaled: Expires: **10/16/2012**  
 Category: **NA**  
 Sub-Type: **NA** Valuation: **\$17.58**  
 Parcel Number: **073-0423-015-01**  
 Job Address: **725 CENTRAL AVE**  
 Work Description: **NO PARKING - GOLDEN GATE ENGINEERING - BRENT WHEELER - CONSTRUCTION (3 SPACES)  
 ON 10/15/12 FROM 8AM UNTIL 5 PM AT 725 CENTRAL AVE**

<u>ITEM #</u>	<u>FEE DESCRIPTION</u>	<u>ACCOUNT CODE</u>	<u>UNITS</u>	<u>FEE AMOUNT</u>	<u>PAID</u>
835	Engineering - Other Revenue	4210-39900 (1590)	18	\$17.58	\$17.58
<b>TOTALS:</b>				\$17.58	\$17.58

<u>RECEIPT #</u>	<u>PAYMENT METHOD</u>	<u>CHECK #</u>	<u>PAYOR:</u>	<u>RECEIPT DATE</u>	<u>RECEIPT AMOUNT</u>
480741	Credit Card		BRENT WHEELER	10/09/2012	\$17.58
<b>Cashier: LBARRAZA</b>					
<b>Total Payments:</b>					\$17.58
<b>Balance Due:</b>					\$0.00

**INSPECTIONS**

Call for an inspection when work is complete

**(510) 747-7930**

This is to certify that the above work has been completed to my satisfaction and approval.

\_\_\_\_\_ Date \_\_\_\_\_ Inspector

*Date*

*Police*

*510-337-8820*

10/9/2012

## **APPENDIX B**

### SOIL BORING LOGS

Golden Gate Environmental, Inc.  
1455 Yosemite Avenue  
San Francisco, CA 94124

GGE Project No. 2043

## SOIL BORING LOG B1

Depth (fbg)	Recovery/ Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1				SM	6" Concrete	Concrete (0-6")
5	B1-5.0	NA	0.0	SM	(0.5'-9.5') <b>Silty Sand (SM)</b> . Moderate to Dark yellowish Brown (10YR 5/4, 4/2), Damp, Loose, Fine-grained, Moderately graded. No Hydrocarbon odor. No staining. Approx. 70% sand and 30% fines.	Neat Portland Cement (0.5'-13')
10 (11.0) .....▽	B1-9.5	NA	0.0	SM	(9.5'-13') <b>Silty Sand (SM)</b> . Same; Moist to wet, Clayey, Slight Plasticity. No Hydrocarbon odor. No staining. Approx. 60% sand and 40% fines.	
15			0.0		Total Borehole Depth = 13 fbg	2.5"
20					Installed temporary 0.75" piezometer casing, collected grab groundwater sample B1-GW on 10/15/12 at 12:30 PM.	
25						

<p><b>BORING NUMBER: B1</b>  <b>LOCATION:</b> 725 Central Ave., Alameda, CA  <b>PROJECT No:</b> 2043  <b>DRILLING CONTRACTOR:</b> John Carver Civil Eng.  <b>DRILLING METHOD:</b> Hand Auger/DPT (Geoprobe)  <b>DRILLING DATE:</b> October 15, 2012  <b>Logged By:</b> J. Carver <b>Checked By:</b> M. Youngkin</p>	<p><b>Legend/Notes:</b></p> <p>fbg = feet below grade          ppm = parts per million          ☒ = Lithologic sample interval          ■ = Analytical sample          (11.0) = Approximate depth to groundwater          .....▽ (non-static) measured on 10/15/12</p> <p style="text-align: right;">NA = Not applicable</p> <p style="text-align: right;"><b>Golden Gate Environmental, Inc.</b></p>
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## SOIL BORING LOG B2

Depth (fbg)	Recovery/ Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1				SM	(0'-9') <b>Silty Sand (SM)</b> . Dark yellowish Brown (10YR 4/2), Damp to moist, Loose, Fine-grained, Moderately graded. No HC odor. No staining. Approx. 70% sand and 30% fines.	Top Soil (0-6")
5	B2-5.0	NA	0.0			Neat Portland Cement (0.5'-13')
10 (11.0) .....▽	B2-9.5	NA	0.0			(9'-13') <b>Silty Sand (SM)</b> . Same; Moist to wet, Clayey, Slight Plasticity. No HC odor. No staining. Approx. 60% sand and 40% fines.
15			0.0		Total Borehole Depth = 13 fbg  Installed temporary 0.75" piezometer casing, collected grab groundwater sample B2-GW on 10/15/12 at 12:15 PM.	2.5"
20						
25						

**BORING NUMBER: B2**  
**LOCATION:** 725 Central Ave., Alameda, CA  
**PROJECT No:** 2043  
**DRILLING CONTRACTOR:** John Carver Civil Eng.  
**DRILLING METHOD:** Hand Auger/DPT (Geoprobe)  
**DRILLING DATE:** October 15, 2012  
**Logged By:** J. Carver **Checked By:** M. Youngkin

**Legend/Notes:**

fbg = feet below grade  
 ppm = parts per million  
 = Lithologic sample interval  
 = Analytical sample  
 (11.0) = Approximate depth to groundwater  
 .....▽ (non-static) measured on 10/15/12

## SOIL BORING LOG B3

Depth (fbg)	Recovery/Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1			0.0		6" Lawn/Top Soil	Lawn/Top Soil (0-6")  Neat Portland Cement (0.5'-13')
5	B3-5.0	NA	0.0	SM	(0.5'-3') <b>Silty, Gravelly Sand (SM)</b> . Fill: Dark yellowish Brown (10YR 4/2), Moist, Loose, Fine-to coarse-grained, Well graded, w/ Concrete Debris. No Hydrocarbon odor. No staining.	
10	B3-9.5	NA	0.0		(3'-9.5') <b>Silty Sand (SM)</b> . Dark yellowish Brown (10YR 4/2), Moist, Loose, Fine-grained, Moderately graded, w/ Concrete Debris. No Hydrocarbon odor. No staining. Approx. 70% sand and 30% fines.	
10.5			0.0		(9.5'-13') <b>Silty Sand (SM)</b> . Same; Moist to wet, Clayey, Slight Plasticity. No Hydrocarbon odor. No staining. Approx. 60% sand and 40% fines.	
15					Total Borehole Depth = 13 fbg	2.5"
20					Installed temporary 0.75" piezometer casing, collected grab groundwater sample B3-GW on 10/15/12 at 12:30 PM.	
25						

<p><b>BORING NUMBER:</b> B3  <b>LOCATION:</b> 725 Central Ave., Alameda, CA  <b>PROJECT No:</b> 2043  <b>DRILLING CONTRACTOR:</b> John Carver Civil Eng.  <b>DRILLING METHOD:</b> Hand Auger/DPT (Geoprobe)  <b>DRILLING DATE:</b> October 15, 2012  <b>Logged By:</b> J. Carver <b>Checked By:</b> M. Youngkin</p>	<p><b>Legend/Notes:</b></p> <p>fbg = feet below grade                  ppm = parts per million                  ☒ = Lithologic sample interval                  ■ = Analytical sample                  (10.5) = Approximate depth to groundwater                  .....∇ (non-static) measured on 10/15/12</p> <p style="text-align: right;">NA = Not applicable</p> <p style="text-align: right;"><b>Golden Gate Environmental, Inc.</b></p>
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## **APPENDIX C**

**LABORATORY ANALYTICAL REPORT  
CHAIN OF CUSTODY RECORD  
WASTE MANIFEST  
GEOTRACKER UPLOAD CONFIRMATION FORMS**

Golden Gate Environmental, Inc.  
1455 Yosemite Avenue  
San Francisco, CA 94124

GGE Project No. 2043



Golden Gate Environmental, Inc  
1455 Yosemite Avenue  
San Francisco, California 94124  
Tel: (415) 686-8846 cell  
RE: 725 Central Avenue, Alameda

Work Order No.: 1210128 Rev: 1

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 9 sample(s) on October 16, 2012 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Janice Winn-Shilling", is written over a light blue grid background.

---

Janice Winn-Shilling  
Sr. Project Manager

October 23, 2012

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Date



**Date:** 10/23/2012

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**Client:** Golden Gate Environmental, Inc

**Project:** 725 Central Avenue, Alameda

**Work Order:** 1210128

### **CASE NARRATIVE**

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No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

#### **REVISIONS:**

Report revised to include EDB and EDC per client request.

Rev 1 (12/03/2012)



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Environmental, Inc

Date Received: 10/16/12  
Date Reported: 10/23/12  
1210128-001

B1 - 5.0

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B1 - 9.5

1210128-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B2 - 5.0

1210128-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B2 - 9.5

1210128-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B3 - 5.0

1210128-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B3 - 9.5

1210128-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.



### Sample Result Summary

Report prepared for: Brent Wheeler  
Golden Gate Environmental, Inc

Date Received: 10/16/12  
Date Reported: 10/23/12  
1210128-007

B1-GW

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<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B2-GW

1210128-008

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<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

B3-GW

1210128-009

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<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B1 - 5.0	<b>Lab Sample ID:</b>	1210128-001A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 11:45		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	2.6	10	ND		ug/Kg	412105	NA
tert-Butanol	SW8260B	NA	10/17/12	1	21	50	ND		ug/Kg	412105	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	2.2	10	ND		ug/Kg	412105	NA
ETBE	SW8260B	NA	10/17/12	1	2.4	10	ND		ug/Kg	412105	NA
Benzene	SW8260B	NA	10/17/12	1	1.5	10	ND		ug/Kg	412105	NA
TAME	SW8260B	NA	10/17/12	1	2.1	10	ND		ug/Kg	412105	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
Toluene	SW8260B	NA	10/17/12	1	0.98	10	ND		ug/Kg	412105	NA
1,2-Dibromoethane	SW8260B	NA	10/17/12	1	1.7	10	ND		ug/Kg	412105	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.86	10	ND		ug/Kg	412105	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.66	5.0	ND		ug/Kg	412105	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	59.8	148	123		%	412105	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	55.2	133	113		%	412105	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	55.8	141	114		%	412105	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/17/12	10/18/12	1	0.660	2.0	ND		mg/Kg	412070	6879
Pentacosane (S)	SW8015B(M)	10/17/12	10/18/12	1	57.9	129	58.3		%	412070	6879



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B1 - 9.5	<b>Lab Sample ID:</b>	1210128-002A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 11:45		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	2.6	10	ND		ug/Kg	412105	NA
tert-Butanol	SW8260B	NA	10/17/12	1	21	50	ND		ug/Kg	412105	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	2.2	10	ND		ug/Kg	412105	NA
ETBE	SW8260B	NA	10/17/12	1	2.4	10	ND		ug/Kg	412105	NA
Benzene	SW8260B	NA	10/17/12	1	1.5	10	ND		ug/Kg	412105	NA
TAME	SW8260B	NA	10/17/12	1	2.1	10	ND		ug/Kg	412105	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
Toluene	SW8260B	NA	10/17/12	1	0.98	10	ND		ug/Kg	412105	NA
1,2-Dibromoethane	SW8260B	NA	10/17/12	1	1.7	10	ND		ug/Kg	412105	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.86	10	ND		ug/Kg	412105	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.66	5.0	ND		ug/Kg	412105	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	59.8	148	127		%	412105	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	55.2	133	111		%	412105	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	55.8	141	124		%	412105	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/17/12	10/17/12	1	0.660	2.0	ND		mg/Kg	412058	6879
Pentacosane (S)	SW8015B(M)	10/17/12	10/17/12	1	57.9	129	79.2		%	412058	6879



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B2 - 5.0	<b>Lab Sample ID:</b>	1210128-003A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 11:05		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	2.6	10	ND		ug/Kg	412105	NA
tert-Butanol	SW8260B	NA	10/17/12	1	21	50	ND		ug/Kg	412105	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	2.2	10	ND		ug/Kg	412105	NA
ETBE	SW8260B	NA	10/17/12	1	2.4	10	ND		ug/Kg	412105	NA
Benzene	SW8260B	NA	10/17/12	1	1.5	10	ND		ug/Kg	412105	NA
TAME	SW8260B	NA	10/17/12	1	2.1	10	ND		ug/Kg	412105	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
Toluene	SW8260B	NA	10/17/12	1	0.98	10	ND		ug/Kg	412105	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.86	10	ND		ug/Kg	412105	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.66	5.0	ND		ug/Kg	412105	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	59.8	148	128		%	412105	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	55.2	133	113		%	412105	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	55.8	141	127		%	412105	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/17/12	10/17/12	1	0.660	2.0	ND		mg/Kg	412058	6879
Pentacosane (S)	SW8015B(M)	10/17/12	10/17/12	1	57.9	129	80.5		%	412058	6879





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B2 - 9.5	<b>Lab Sample ID:</b>	1210128-004A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 11:25		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	2.6	10	ND		ug/Kg	412105	NA
tert-Butanol	SW8260B	NA	10/17/12	1	21	50	ND		ug/Kg	412105	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	2.2	10	ND		ug/Kg	412105	NA
ETBE	SW8260B	NA	10/17/12	1	2.4	10	ND		ug/Kg	412105	NA
Benzene	SW8260B	NA	10/17/12	1	1.5	10	ND		ug/Kg	412105	NA
TAME	SW8260B	NA	10/17/12	1	2.1	10	ND		ug/Kg	412105	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
Toluene	SW8260B	NA	10/17/12	1	0.98	10	ND		ug/Kg	412105	NA
1,2-Dibromoethane	SW8260B	NA	10/17/12	1	1.7	10	ND		ug/Kg	412105	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.86	10	ND		ug/Kg	412105	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.66	5.0	ND		ug/Kg	412105	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	59.8	148	128		%	412105	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	55.2	133	112		%	412105	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	55.8	141	125		%	412105	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/17/12	10/17/12	1	0.660	2.0	ND		mg/Kg	412058	6879
Pentacosane (S)	SW8015B(M)	10/17/12	10/17/12	1	57.9	129	73.5		%	412058	6879



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B3 - 5.0	<b>Lab Sample ID:</b>	1210128-005A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 9:55		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	2.6	10	ND		ug/Kg	412105	NA
tert-Butanol	SW8260B	NA	10/17/12	1	21	50	ND		ug/Kg	412105	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	2.2	10	ND		ug/Kg	412105	NA
ETBE	SW8260B	NA	10/17/12	1	2.4	10	ND		ug/Kg	412105	NA
Benzene	SW8260B	NA	10/17/12	1	1.5	10	ND		ug/Kg	412105	NA
TAME	SW8260B	NA	10/17/12	1	2.1	10	ND		ug/Kg	412105	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
Toluene	SW8260B	NA	10/17/12	1	0.98	10	ND		ug/Kg	412105	NA
1,2-Dibromoethane	SW8260B	NA	10/17/12	1	1.7	10	ND		ug/Kg	412105	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.86	10	ND		ug/Kg	412105	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.66	5.0	ND		ug/Kg	412105	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	59.8	148	134		%	412105	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	55.2	133	116		%	412105	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	55.8	141	147	S	%	412105	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/17/12	10/18/12	2	2.67	8.0	ND		mg/Kg	412070	6879
Pentacosane (S)	SW8015B(M)	10/17/12	10/18/12	2	57.9	129	83.5		%	412070	6879



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B3 - 9.5	<b>Lab Sample ID:</b>	1210128-006A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 10:20		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	2.6	10	ND		ug/Kg	412105	NA
tert-Butanol	SW8260B	NA	10/17/12	1	21	50	ND		ug/Kg	412105	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	2.2	10	ND		ug/Kg	412105	NA
ETBE	SW8260B	NA	10/17/12	1	2.4	10	ND		ug/Kg	412105	NA
Benzene	SW8260B	NA	10/17/12	1	1.5	10	ND		ug/Kg	412105	NA
TAME	SW8260B	NA	10/17/12	1	2.1	10	ND		ug/Kg	412105	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
Toluene	SW8260B	NA	10/17/12	1	0.98	10	ND		ug/Kg	412105	NA
1,2-Dibromoethane	SW8260B	NA	10/17/12	1	1.7	10	ND		ug/Kg	412105	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.86	10	ND		ug/Kg	412105	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	1.9	10	ND		ug/Kg	412105	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.66	5.0	ND		ug/Kg	412105	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	59.8	148	129		%	412105	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	55.2	133	115		%	412105	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	55.8	141	131		%	412105	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/17/12	10/18/12	1	0.660	2.0	ND		mg/Kg	412070	6879
Pentacosane (S)	SW8015B(M)	10/17/12	10/18/12	1	57.9	129	70.7		%	412070	6879



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B1-GW	<b>Lab Sample ID:</b>	1210128-007A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 12:30		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	0.17	0.50	ND		ug/L	412063	NA
tert-Butanol	SW8260B	NA	10/17/12	1	1.5	5.0	ND		ug/L	412063	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	0.15	0.50	ND		ug/L	412063	NA
ETBE	SW8260B	NA	10/17/12	1	0.13	0.50	ND		ug/L	412063	NA
Benzene	SW8260B	NA	10/17/12	1	0.088	0.50	ND		ug/L	412063	NA
TAME	SW8260B	NA	10/17/12	1	0.095	0.50	ND		ug/L	412063	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	0.11	0.50	ND		ug/L	412063	NA
Toluene	SW8260B	NA	10/17/12	1	0.059	0.50	ND		ug/L	412063	NA
1,2-Dibromoethane	SW8260B	NA	10/17/12	1	0.068	0.50	ND		ug/L	412063	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.074	0.50	ND		ug/L	412063	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	0.13	1.0	ND		ug/L	412063	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.076	0.50	ND		ug/L	412063	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	61.2	131	113		%	412063	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	75.1	127	114		%	412063	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	64.1	120	112		%	412063	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B1-GW	<b>Lab Sample ID:</b>	1210128-007B
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 12:30		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/16/12	10/17/12	1	0.0500	0.13	ND		mg/L	412069	6860
Pentacosane (S)	SW8015B(M)	10/16/12	10/17/12	1	64.2	123	96.6		%	412069	6860



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B2-GW	<b>Lab Sample ID:</b>	1210128-008A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 12:15		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	0.17	0.50	ND		ug/L	412063	NA
tert-Butanol	SW8260B	NA	10/17/12	1	1.5	5.0	ND		ug/L	412063	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	0.15	0.50	ND		ug/L	412063	NA
ETBE	SW8260B	NA	10/17/12	1	0.13	0.50	ND		ug/L	412063	NA
Benzene	SW8260B	NA	10/17/12	1	0.088	0.50	ND		ug/L	412063	NA
TAME	SW8260B	NA	10/17/12	1	0.095	0.50	ND		ug/L	412063	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	0.11	0.50	ND		ug/L	412063	NA
Toluene	SW8260B	NA	10/17/12	1	0.059	0.50	ND		ug/L	412063	NA
1,2-Dibromoethane	SW8260B	NA	10/17/12	1	0.068	0.50	ND		ug/L	412063	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.074	0.50	ND		ug/L	412063	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	0.13	1.0	ND		ug/L	412063	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.076	0.50	ND		ug/L	412063	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	61.2	131	110		%	412063	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	75.1	127	113		%	412063	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	64.1	120	109		%	412063	NA



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B2-GW	<b>Lab Sample ID:</b>	1210128-008B
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 12:15		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/16/12	10/17/12	1	0.0500	0.13	ND		mg/L	412069	6860
Pentacosane (S)	SW8015B(M)	10/16/12	10/17/12	1	64.2	123	99.3		%	412069	6860



## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B3-GW	<b>Lab Sample ID:</b>	1210128-009A
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 12:30		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/17/12	1	0.17	0.50	ND		ug/L	412063	NA
tert-Butanol	SW8260B	NA	10/17/12	1	1.5	5.0	ND		ug/L	412063	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/17/12	1	0.15	0.50	ND		ug/L	412063	NA
ETBE	SW8260B	NA	10/17/12	1	0.13	0.50	ND		ug/L	412063	NA
Benzene	SW8260B	NA	10/17/12	1	0.088	0.50	ND		ug/L	412063	NA
TAME	SW8260B	NA	10/17/12	1	0.095	0.50	ND		ug/L	412063	NA
1,2-Dichloroethane	SW8260B	NA	10/17/12	1	0.11	0.50	ND		ug/L	412063	NA
Toluene	SW8260B	NA	10/17/12	1	0.059	0.50	ND		ug/L	412063	NA
1,2-Dibromoethane	SW8260B	NA	10/17/12	1	0.068	0.50	ND		ug/L	412063	NA
Ethyl Benzene	SW8260B	NA	10/17/12	1	0.074	0.50	ND		ug/L	412063	NA
m,p-Xylene	SW8260B	NA	10/17/12	1	0.13	1.0	ND		ug/L	412063	NA
o-Xylene	SW8260B	NA	10/17/12	1	0.076	0.50	ND		ug/L	412063	NA
(S) Dibromofluoromethane	SW8260B	NA	10/17/12	1	61.2	131	118		%	412063	NA
(S) Toluene-d8	SW8260B	NA	10/17/12	1	75.1	127	116		%	412063	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/17/12	1	64.1	120	117		%	412063	NA





## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler  
Golden Gate Environmental, Inc

**Date Received:** 10/16/12  
**Date Reported:** 10/23/12

<b>Client Sample ID:</b>	B3-GW	<b>Lab Sample ID:</b>	1210128-009B
<b>Project Name/Location:</b>	725 Central Avenue, Alameda	<b>Sample Matrix:</b>	Groundwater
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	10/15/12 / 12:30		
<b>Tag Number:</b>	725 Central Avenue, Alameda		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	10/16/12	10/17/12	1	0.0400	0.10	ND		mg/L	412069	6860
Pentacosane (S)	SW8015B(M)	10/16/12	10/17/12	1	64.2	123	98.2		%	412069	6860



## MB Summary Report

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412063
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.18	0.50	ND		
Chloromethane	0.16	0.50	ND		
Vinyl Chloride	0.16	0.50	ND		
Bromomethane	0.18	0.50	0.30		
Trichlorofluoromethane	0.18	0.50	ND		
1,1-Dichloroethene	0.15	0.50	ND		
Freon 113	0.19	0.50	ND		
Methylene Chloride	0.23	5.0	0.79		
trans-1,2-Dichloroethene	0.19	0.50	ND		
MTBE	0.17	0.50	ND		
tert-Butanol	1.5	5.0	ND		
Diisopropyl ether (DIPE)	0.13	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.17	0.50	ND		
cis-1,2-Dichloroethene	0.19	0.50	ND		
2,2-Dichloropropane	0.15	0.50	ND		
Bromochloromethane	0.20	0.50	ND		
Chloroform	0.13	0.50	ND		
Carbon Tetrachloride	0.15	0.50	ND		
1,1,1-Trichloroethane	0.097	0.50	ND		
1,1-Dichloropropene	0.15	0.50	ND		
Benzene	0.13	0.50	ND		
TAME	0.17	0.50	ND		
1,2-Dichloroethane	0.14	0.50	ND		
Trichloroethylene	0.13	0.50	ND		
Dibromomethane	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.13	0.50	ND		
cis-1,3-Dichloropropene	0.096	0.50	ND		
Toluene	0.14	0.50	ND		
Tetrachloroethylene	0.14	0.50	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
1,1,2-Trichloroethane	0.14	0.50	ND		
Dibromochloromethane	0.096	0.50	ND		
1,3-Dichloropropane	0.10	0.50	ND		
1,2-Dibromoethane	0.19	0.50	ND		
Chlorobenzene	0.14	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
1,1,1,2-Tetrachloroethane	0.096	0.50	ND		
m,p-Xylene	0.13	1.0	ND		



## MB Summary Report

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412063
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	0.15	0.50	ND		
Styrene	0.21	0.50	ND		
Bromoform	0.21	1.0	ND		
Isopropyl Benzene	0.097	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.11	0.50	ND		
n-Propylbenzene	0.078	0.50	ND		
2-Chlorotoluene	0.076	0.50	ND		
1,3,5-Trimethylbenzene	0.074	0.50	ND		
4-Chlorotoluene	0.088	0.50	ND		
tert-Butylbenzene	0.081	0.50	ND		
1,2,3-Trichloropropane	0.14	0.50	ND		
1,2,4-Trimethylbenzene	0.083	0.50	ND		
sec-Butyl Benzene	0.092	0.50	ND		
p-Isopropyltoluene	0.093	0.50	ND		
1,3-Dichlorobenzene	0.10	0.50	ND		
1,4-Dichlorobenzene	0.069	0.50	ND		
n-Butylbenzene	0.081	0.50	ND		
1,2-Dichlorobenzene	0.057	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.15	0.50	ND		
Hexachlorobutadiene	0.19	0.50	ND		
1,2,4-Trichlorobenzene	0.12	0.50	ND		
Naphthalene	0.14	1.0	ND		
1,2,3-Trichlorobenzene	0.23	0.50	ND		
(S) Dibromofluoromethane			113		
(S) Toluene-d8			114		
(S) 4-Bromofluorobenzene			112		
Ethanol	0.21	0.50	ND	TIC	



## MB Summary Report

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412105
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	4.4	10	ND		
Chloromethane	4.6	10	ND		
Vinyl Chloride	2.6	10	ND		
Bromomethane	4.7	10	ND		
Trichlorofluoromethane	2.9	10	ND		
1,1-Dichloroethene	1.5	10	ND		
Freon 113	3.7	10	ND		
Methylene Chloride	2.0	50	ND		
trans-1,2-Dichloroethene	1.1	10	ND		
MTBE	2.6	10	ND		
tert-Butanol	21	50	ND		
Diisopropyl ether (DIPE)	2.2	10	ND		
1,1-Dichloroethane	1.3	10	ND		
ETBE	2.4	10	ND		
cis-1,2-Dichloroethene	1.8	10	ND		
2,2-Dichloropropane	1.2	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	1.2	10	ND		
Carbon Tetrachloride	1.6	10	ND		
1,1,1-Trichloroethane	1.2	10	ND		
1,1-Dichloropropene	1.4	10	ND		
Benzene	1.5	10	ND		
TAME	2.1	10	ND		
1,2-Dichloroethane	1.9	10	ND		
Trichloroethylene	3.9	10	ND		
Dibromomethane	2.2	10	ND		
1,2-Dichloropropane	1.3	10	ND		
Bromodichloromethane	1.1	10	ND		
cis-1,3-Dichloropropene	1.4	10	ND		
Toluene	0.98	10	ND		
Tetrachloroethylene	1.8	10	ND		
trans-1,3-Dichloropropene	1.2	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.1	10	ND		
1,3-Dichloropropane	2.1	10	ND		
1,2-Dibromoethane	1.7	10	ND		
Ethyl Benzene	0.86	10	1.1		
Chlorobenzene	4.2	10	ND		
1,1,1,2-Tetrachloroethane	0.86	10	ND		
m,p-Xylene	1.9	10	2.2		
o-Xylene	0.66	5.0	ND		



## MB Summary Report

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412105
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.77	10	ND		
Bromoform	1.9	10	ND		
Isopropyl Benzene	1.2	10	ND		
n-Propylbenzene	1.4	10	ND		
Bromobenzene	1.2	10	ND		
1,1,2,2-Tetrachloroethane	3.0	10	ND		
1,3,5-Trimethylbenzene	1.1	10	ND		
1,2,3-Trichloropropane	3.3	10	ND		
4-Chlorotoluene	1.6	10	ND		
2-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.4	10	ND		
1,2,4-Trimethylbenzene	1.1	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.8	10	ND		
1,4-Dichlorobenzene	1.5	10	ND		
n-Butylbenzene	2.2	10	ND		
1,2-Dichlorobenzene	1.3	10	ND		
1,2-Dibromo-3-Chloropropane	4.2	10	ND		
Hexachlorobutadiene	2.6	10	ND		
1,2,4-Trichlorobenzene	2.1	10	ND		
Naphthalene	2.8	10	ND		
1,2,3-Trichlorobenzene	2.9	10	ND		
(S) Dibromofluoromethane			106		
(S) Toluene-d8			100		
(S) 4-Bromofluorobenzene			112		

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	3510_TPH	<b>Prep Date:</b>	10/16/12	<b>Prep Batch:</b>	6860
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	10/16/12	<b>Analytical Batch:</b>	412042
<b>Units:</b>	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Diesel	0.0440	0.10	ND		
TPH as Motor Oil	0.0920	0.40	0.17		
Pentacosane (S)			88.1		



### MB Summary Report

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	3545_TPH	<b>Prep Date:</b>	10/17/12	<b>Prep Batch:</b>	6879
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412058
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.656	2.0	1.3	
TPH as Motor Oil	1.36	10	1.5	
Pentacosane (S)			90.6	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412063
<b>Units:</b>	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.04	99.3	94.2	5.10	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.04	93.7	93.0	0.910	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.04	76.9	79.3	3.13	69.3 - 144	30	
Toluene	0.059	0.50	0.30	17.04	92.6	94.1	1.51	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.04	89.9	90.6	0.872	73.9 - 137	30	
(S) Dibromofluoromethane			ND	11.36	106	103		61.2 - 131		
(S) Toluene-d8			ND	11.36	115	112		75.1 - 127		
(S) 4-Bromofluorobenzene			0.79	11.36	114	112		64.1 - 120		

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412105
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	1.5	10	ND	50	94.1	88.8	5.67	53.7 - 139	30	
Benzene	1.5	10	ND	50	102	96.0	5.67	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	99.6	92.9	7.00	57.5 - 150	30	
Toluene	0.98	10	ND	50	104	94.5	9.91	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	122	113	7.69	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	120	122		59.8 - 148		
(S) Toluene-d8			ND	50	113	110		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	117	116		55.8 - 141		

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	3510_TPH	<b>Prep Date:</b>	10/16/12	<b>Prep Batch:</b>	6860
<b>Matrix:</b>	Water	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	10/16/12	<b>Analytical Batch:</b>	412042
<b>Units:</b>	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	1	85.3	86.3	1.19	50.3 - 125	30	
Pentacosane (S)			0.17	100	87.2	88.2		57.9 - 125		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	3545_TPH	<b>Prep Date:</b>	10/17/12	<b>Prep Batch:</b>	6879
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412058
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.656	2	1.3	33.33	68.1	71.9	5.43	50.3 - 115	30	
Pentacosane (S)			1.5	100	80.9	86.8		57.9 - 129		





## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	3545_TPH	<b>Prep Date:</b>	10/17/12	<b>Prep Batch:</b>	6879
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412058
<b>Spiked Sample:</b>	1210128-003A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.66	2.0	40.69752	33.33	65.9	59.1	10.3	50.3 - 115	30	
Pentacosane (S)				100	82.1	77.3		57.9 - 129		

<b>Work Order:</b>	1210128	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8260B	<b>Analyzed Date:</b>	10/17/12	<b>Analytical Batch:</b>	412105
<b>Spiked Sample:</b>	1210128-006A						
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Benzene	1.5	10	0	50	98.0	94.9	3.21	66.5 - 135	30	
Toluene	0.98	10	0	50	102	93.0	9.05	56.8 - 134	30	
(S) Dibromofluoromethane				50	123	124		59.8 - 148		
(S) Toluene-d8				50	112	112		55.2 - 133		
(S) 4-Bromofluorobenzene				50	131	126		55.8 - 141		



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
<b>Duplicate</b> - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
<b>Tentatively Identified Compound (TIC)</b> - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p><b>X</b> -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>
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## Sample Receipt Checklist

Client Name: Golden Gate Environmental, Inc

Date and Time Received: 10/16/2012 15:50

Project Name: 725 Central Avenue, Alameda

Received By: LORNA

Work Order No.: 1210128

Physically Logged By: LORNA

Checklist Completed By: LORNA

Carrier Name: First Courier

### Chain of Custody (COC) Information

Chain of custody present? Yes  
Chain of custody signed when relinquished and received? Yes  
Chain of custody agrees with sample labels? Yes  
Custody seals intact on sample bottles? Not Present

### Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present  
Shipping Container/Cooler In Good Condition? Yes  
Samples in proper container/bottle? Yes  
Samples containers intact? Yes  
Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  
Container/Temp Blank temperature in compliance? Yes      Temperature: 6 °C  
Water-VOA vials have zero headspace? Yes  
Water-pH acceptable upon receipt? No  
pH Checked by: N/A      pH Adjusted by: N/A

Recv'd VOA NOT preserved.



## Login Summary Report

**Client ID:** TL5127 Golden Gate Environmental, Inc  
**Project Name:** 725 Central Avenue, Alameda  
**Project # :**  
**Report Due Date:** 10/23/2012  
**Comments:** 5 day TAT!!!! EDF Pls. email to bwheeler@ggtr.com.  
**Work Order # :** **1210128**

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 10/16/2012  
**Time Received:** 15:50

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1210128-001A	B1 - 5.0	10/15/12 11:45	Soil	04/14/13			EDF S_8260Pet S_TPHDO	
<b>Sample Note:</b>	BTEX/Fuel Oxygenates and Diesel.EDF							
1210128-002A	B1 - 9.5	10/15/12 11:45	Soil	04/14/13			S_8260Pet S_TPHDO	
1210128-003A	B2 - 5.0	10/15/12 11:05	Soil	04/14/13			S_8260Pet S_TPHDO	
1210128-004A	B2 - 9.5	10/15/12 11:25	Soil	04/14/13			S_8260Pet S_TPHDO	
1210128-005A	B3 - 5.0	10/15/12 9:55	Soil	04/14/13			S_8260Pet S_TPHDO	
1210128-006A	B3 - 9.5	10/15/12 10:20	Soil	04/14/13			S_8260Pet S_TPHDO	
1210128-007A	B1-GW	10/15/12 12:30	Water	04/14/13			W_8260Pet	
<b>Sample Note:</b>	Recv' d VOA 's NOT preserved. Diesel only/ BTEX and Fuel Oxtgenates.							
1210128-007B	B1-GW	10/15/12 12:30	Water	04/14/13			W_TPHDO	
1210128-008A	B2-GW	10/15/12 12:15	Water	04/14/13			W_8260Pet	
1210128-008B	B2-GW	10/15/12 12:15	Water	04/14/13			W_TPHDO	
1210128-009A	B3-GW	10/15/12 12:30	Water	04/14/13			W_8260Pet	
1210128-009B	B3-GW	10/15/12 12:30	Water	04/14/13			W_TPHDO	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO  
 1210128

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: **Golden Gate Environmental, Inc.**  Env.  IH  Food  Special Location of Sampling: **725 Central Avenue, Alameda**

Address: **1455 Yosemite Avenue** Purpose: **Soil and Groundwater Investigation**

City: **CA** State: **CA** Zip Code: **94124** Special Instructions / Comments: **Global ID#: T1000002520**

Telephone: **415-970-9088** FAX: **415-970-9089** Field Point IDs - See Remarks Section; BT = Brass Tube

REPORT TO: **Brent Wheeler** SAMPLER: **J. Carver** P.O. #: **GGE 2043** EMAIL: **b.wheeler@ggtr.com**

TURNAROUND TIME:  10 Work Days  4 Work Days  1 Work Day  
 7 Work Days  3 Work Days  Noon - Nxt Day  
 5 Work Days  2 Work Days  2-8 Hours

SAMPLE TYPE:  Storm Water  Air  QC Level IV  
 Waste Water  Other  EDF  
 Ground Water  Excel / EDD  
 Soil

REPORT FORMAT:  QC Level IV  EDF  Excel / EDD

TPH-D (8015M) BTEX (8260) Fuel Oxygenates (8260)

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-D (8015M)	BTEX (8260)	Fuel Oxygenates (8260)	REMARKS
-001A		B1-5.0	10-15-12/1145	SO	1	BT	✓	✓	✓	Field Point ID: B1
-002A		B1-9.5	10-15-12/1145	SO	1	BT	✓	✓	✓	Field Point ID: B1
-003A		B2-5.0	10-15-12/1105	SO	1	BT	✓	✓	✓	Field Point ID: B2
-004A		B2-9.5	10-15-12/1125	SO	1	BT	✓	✓	✓	Field Point ID: B2
-005A		B3-5.0	10-15-12/0955	SO	1	BT	✓	✓	✓	Field Point ID: B3
-006A		B3-9.5	10-15-12/1020	SO	1	BT	✓	✓	✓	Field Point ID: B3
-007A		B1-GW	10-15-12/1230	GW	4	Varies	✓	✓	✓	Field Point ID: B1
-008A		B2-GW	10-15-12/1215	GW	4	Varies	✓	✓	✓	Field Point ID: B2
-009A		B3-GW	10-15-12/1230	GW	4	Varies	✓	✓	✓	Field Point ID: B3

Relinquished By: *[Signature]* Print: **BRENT WHEELER** Date: **10-15-12** Time: **1400** Received By: *[Signature]* Print: **JOHN KAZU** Date: **10/16/12** Time: **1:25pm**

Relinquished By: *[Signature]* Print: **JOHN KAZU** Date: **10/16/12** Time: **3:50** Received By: *[Signature]* Print: **V.P. JIMBAL** Date: **10-16-12** Time: **3:50**

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment **FC** Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp **6** °C Page **1** of **1**

Log In By: *[Signature]* Date: **10/21/12** Log In Reviewed By: *[Signature]* Date: **10/16/12** Rev. 1



**Change Order**

**Work Order:** 1210128

**Serial #:** CO12-0253

**Print Date:** 12/4/2012

**Project Name:** 725 Central Avenue, Alameda

**Client:** Golden Gate Environmental, Inc

**Requested By:** Brent Wheeler

	<u>Requested Date</u>	<u>Requested Time</u>	<u>Extended Price</u>
More Paperwork Revise report to include EDB and 1,2-DCA	11/29/2012	2:35:00PM	

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Page 1 of 1

3. Document Number

10947

4. Generator's Name and Mailing Address

725 Central Avenue Apartments  
c/o Fred T. Kroger  
P.O. Box 11244  
Piedmont, CA 94611

Generator's Phone

5. Transporter Company Name

Icon Environmental Services

6.

US EPA ID Number  
CAL 000 362 980

7. Transporter Phone

(510) 476-1740

~~CLEARWATER ENVIRONMENTAL~~

CAR000007013

8. Designated Facility Name and Site Address

Icon Environmental Services Inc  
1220 Whipple Road  
Union City, CA 94587

9.

US EPA ID Number  
CAL 000 369 026

10. Facility's Phone

510-476-1740

11. Waste Shipping Name and Description

a. Non-Hazardous waste Liquid

12. Containers

No.

Type

13. Total Quantity

14. Unit Wt/Vol

01 DM 20 G

b. Non-Hazardous waste SOLID

01 DM 100 P

15. Special Handling Instructions and Additional Information

Wear PPE  
Emergency Contact  
(510) 476-1740  
Attn: Charles Seaton

Handling Codes for Wastes Listed Above

11a.

11b.

Customer: Golden Gate Tank Removal

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Gina Wee

Signature

*[Signature]*

Month Day Year  
12 5 12

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name

Eugenio V. Harred

Signature

*[Signature]*

Month Day Year  
12 5 12

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name

Signature

Month Day Year

GENERATOR  
TRANSPORTER  
FACILITY

---

STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A EDF FILE

**SUCCESS**

Processing is complete. No errors were found!  
Your file has been successfully submitted!

<b><u>Submittal Type:</u></b>	EDF
<b><u>Report Title:</u></b>	Soil and Groundwater Investigation Report
<b><u>Report Type:</u></b>	Soil and Water Investigation Report
<b><u>Facility Global ID:</u></b>	T10000002520
<b><u>Facility Name:</u></b>	KROGER RESIDENTIAL PROPERTY
<b><u>File Name:</u></b>	GGE 1210128 725 Central Ave EDF.zip
<b><u>Organization Name:</u></b>	Golden Gate Environmental, Inc.
<b><u>Username:</u></b>	GGE
<b><u>IP Address:</u></b>	108.81.108.167
<b><u>Submittal Date/Time:</u></b>	12/6/2012 10:15:01 AM
<b><u>Confirmation Number:</u></b>	<b>7298094987</b>

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T10000002520
<b><u>Field Point:</u></b>	B1
<b><u>Facility Name:</u></b>	KROGER RESIDENTIAL PROPERTY
<b><u>File Name:</u></b>	Log_B1.pdf
<b><u>Organization Name:</u></b>	Golden Gate Environmental, Inc.
<b><u>Username:</u></b>	GGE
<b><u>IP Address:</u></b>	108.81.108.167
<b><u>Submittal Date/Time:</u></b>	11/29/2012 2:58:38 PM
<b><u>Confirmation Number:</u></b>	<b>4340732634</b>

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UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T10000002520
<b><u>Field Point:</u></b>	B2
<b><u>Facility Name:</u></b>	KROGER RESIDENTIAL PROPERTY
<b><u>File Name:</u></b>	Log_B2.pdf
<b><u>Organization Name:</u></b>	Golden Gate Environmental, Inc.
<b><u>Username:</u></b>	GGE
<b><u>IP Address:</u></b>	108.81.108.167
<b><u>Submittal Date/Time:</u></b>	11/29/2012 2:59:47 PM
<b><u>Confirmation Number:</u></b>	<b>1432494401</b>

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**GEOTRACKER ESI**

UPLOADING A GEO\_BORE FILE

**SUCCESS**

Your GEO\_BORE file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_BORE
<b><u>Facility Global ID:</u></b>	T10000002520
<b><u>Field Point:</u></b>	B3
<b><u>Facility Name:</u></b>	KROGER RESIDENTIAL PROPERTY
<b><u>File Name:</u></b>	Log_B3.pdf
<b><u>Organization Name:</u></b>	Golden Gate Environmental, Inc.
<b><u>Username:</u></b>	GGE
<b><u>IP Address:</u></b>	108.81.108.167
<b><u>Submittal Date/Time:</u></b>	11/29/2012 3:00:27 PM
<b><u>Confirmation Number:</u></b>	<b>7369979798</b>

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**GEOTRACKER ESI**

UPLOADING A GEO\_MAP FILE

**SUCCESS**

Your GEO\_MAP file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_MAP
<b><u>Facility Global ID:</u></b>	T10000002520
<b><u>Facility Name:</u></b>	KROGER RESIDENTIAL PROPERTY
<b><u>File Name:</u></b>	Fig 2_Site Plan_Nov. 2012.pdf
<b><u>Organization Name:</u></b>	Golden Gate Environmental, Inc.
<b><u>Username:</u></b>	GGE
<b><u>IP Address:</u></b>	108.81.108.167
<b><u>Submittal Date/Time:</u></b>	11/29/2012 1:58:17 PM
<b><u>Confirmation Number:</u></b>	<b>5345844328</b>

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