ALAMEDA COUNTY HEALTH CARE SERVICES



ALEX BRISCOE, Director

AGENCY

November 16, 2012

Donald Rogers Brandywine Realty Trust 2101 Webster Street, Suite 1600 Oakland, CA 94612 ENVIRONMENTAL HEALTH DEPARTMENT ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Subject: Fuel Leak Case No. RO0002984 and GeoTracker Global ID T10000000422, Center Twenty-one Franklin Tower, 2100-2150 Franklin Street, Oakland, CA 94612

Dear Mr. Rogers:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Residual hydrocarbons in soil at concentrations of 7,300 mg/kg TPH-d and 5,700 mg/kg TPH-mo may remain at the site. Confirmation soil samples were not collected following excavation activities. Actual residual concentrations are unknown.
- Residual hydrocarbons in groundwater at concentrations of 230 µg/L TPH-g, 64,000 µg/L TPH-d, 57,000 µg/L TPH-mo, and 96,000 µg/L TPH-bo, may remain on-site. Confirmation groundwater samples were not collected following excavation activities. Actual residual concentrations are unknown.
- Dissolved phase Bunker C plume is present at 25 to 60 feet bgs and extends approximately 1,000 feet south, southeast direction from the site.

If you have any questions, please call Paresh Khatri at (510) 777-2478. Thank you.

Sincerely,

Donna L. Drogos, P.E. Division Chief

Enclosures: 1. Remedial Action Completion Certificate 2. Case Closure Summary

CC:

Ms. Cherie McCaulou (w/enc) SF- Regional Water Quality Control Board 1515 Clay Street, Suite 1400 Oakland, CA 94612 (Sent via E-mail to: CMccaulou@waterboards.ca.gov) Closure Unit (w/enc) State Water Resources Control Board UST Cleanup Fund P.O. Box 944212 Sacramento, CA 94244-2120 (Upload to GeoTracker)

Paresh Khatri (w/orig enc), D. Drogos (w/enc), T. Le-Khan (w/enc)

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

ALEX BRISCOE, Agency Director

(4)

REMEDIAL ACTION COMPLETION CERTIFICATION

November 16, 2012

Donald Rogers Brandywine Realty Trust 2101 Webster Street, Suite 1600 Oakland, CA 94612

Subject: Fuel Leak Case No. RO0002984 and GeoTracker Global ID T10000000422, Center Twenty-one Franklin Tower, 2100-2150 Franklin Street, Oakland, CA 94612

Dear Mr. Rogers:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- · Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is
 required for closure that will result in the submission of claims beyond that time period, or that under the
 circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi Director

CASE CLOSURE SUMMARY LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: March 5, 2012

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 777-2478
Responsible Staff Person: Paresh Khatri	Title: Sr. Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Center Twenty	-One Franklin Tower					
Site Facility Address: 2100-2150 F	Franklin Street, Oakland, California 94612					
RB Case No.: StID No.: LOP Case No.: RO0002984						
URF Filing Date: 5/25/2006	Global ID No.: T10000000422	APN: 8-717-1				
Responsible Parties	Addresses	Phone Numbers				
CIM Group, LP Brandywine Realty Trust c/o Donald Rogers	2101 Webster Street, Suite 1600 Oakland, CA 94612	(510) 465-2101				

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	1 x 1,300-gallon	Fuel Oil (Bunker C)	Removed	5/23/2006
-		-		
-				****
	Piping		Removed	5/23/2006

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Holes were ob diameter	served o	n both ends of the UST	measuring approximately ¼-inch in		
Site characterization complete? Yes Date Approved By Oversight Agency:					
Monitoring wells installed? Yes		Number: 2	Proper screened interval? Yes		
Highest GW Depth Below Ground Surface: 3 bgs	3.89 ft	Lowest Depth: 9.33 ft bgs	Flow Direction: south to southeast		
Most Sensitive Current Use: Potential drinki	ng water	source.	·		

Summary of Production Wells in Vicinity: A ¼ mile well survey was performed for the site. A total of eight water supply wells wells were identified within a quarter mile of the site. One well in the study area located at the southeast corner of 20th Street and Broadway is located at the southwestern edge of the shallow groundwater heating oil plume (see Figure 7). Although the 153 ft well denoted as "other" is reported as inactive and does not appear to be a receptor at this time, determination of whether the well still exits must be made including notification to the property owner.

Are drinking water wells affected? No	Aquifer Name: East Bay Plain Groundwater Basin
Is surface water affected? No	Nearest SW Name: Lake Merritt, located approx 1,000 east of the site.
Off-Site Beneficial Use Impacts (Addresses/I	_ocations): None
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health & Oakland Fire Prevention Bureau

	IREAIMENTA	AND DISPOSAL OF AFFECTED MATERIAL	
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	One 1,300-gallon	Disposal, Erickson Facility, Richmond, CA	5/23/2006
Piping			
Free Product			-
Soil	14.67 tons	Contra Costa Sanitary Landfill, Inc., Richmond, CA	7/27/2006
Groundwater	Not Reported	Dewatering from 5 well during building construction. Disposal Destination not reported. (Work performed under Oakland Fire Dept, oversight).	

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP (Please see Attachments for additional information on contaminant locations and concentrations)

A	Soil	(ppm)	Water (ppb)		
Contaminant	Before	After ⁷	Before	After	
TPH (Gas)	300	300	230	230	
	(T1-0.0, 5/23/2006)	(T1-0.0, 5/23/2006)	(B33W, 7/23/2008)	(B33W, 7/23/2008)	
TPH (Diesel)	7,300	7,300	64,000 ⁶	64,000 ⁶	
	(T1-0.0, 5/23/2006)	(T1-0.0. 5/23/2006)	(B1Water, 5/23/2006)	(B1Water, 5/23/2006)	
TPH (Motor Oil)	5,700	5,700	57,000 ⁶	57,000 ⁶	
	(T1-0.0, 5/23/2006)	(T1-0.0, 5/23/2006)	(B1Water, 5/23/2006)	(B1Water, 5/23/2006)	
TPH (Bunker Oil)	NA	NA	96,000 ⁶ (B1Water, 5/23/2006)	96,000 ⁶ (B1Water, 5/23/2006)	
Benzene	<0.5	<0.5	3	3	
	(T1-0.0, 5/23/2006)	(T1-0.0, 5/23/2006)	(B33W, 7/23/2008)	(B33W, 7/23/2008)	
Toluene	<0.5	<0.5	21	21	
	(T1-0.0, 5/23/2006)	(T1-0.0, 5/23/2006)	(B33W, 7/23/2008)	(B33W, 7/23/2008)	
Ethylbenzene	<0.5	<0.5	9	9	
	(T1-0.0, 5/23/2006)	(T1-0.0, 5/23/2006)	(B33W, 7/23/2008)	(B33W, 7/23/2008)	
Xylenes	<0.5	<0.5	51	51	
	(T1-0.0, 5/23/2006)	(T1-0.0, 5/23/2006)	(B33W, 7/23/2008)	(B33W, 7/23/2008)	
MTBE	<5.0 ⁴ (GP1, 11/26/2003)	<5.0 ³ (GP1, 11/26/2003)	< 5.0 ²	<0.5 ¹	
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	NA ⁵	NA ⁵	NA ⁵	NA ⁵	
Other 8240/8260	NA	NA	NA	<2.0	

<0.5 μg/L MTBE, <2.0 μg/L TBA, <0.5 μg/L DIPE, <0.5 μg/L ETBE, <0.5 μg/L TAME, <0.5 μg/L EDB, and <0.5 μg/L 1.2-DCA.

² <5.0 µg/L MTBE; TBA, DIPE, ETBE, TAME, EDB, and 1.2-DCA not analyzed.

³ <5.0 mg/kg MTBE; TBA, DIPE, ETBE, TAME, EDB, 1.2-DCA not analyzed.

4 <5.0 mg/kg MTBE; TBA, DIPE, ETBE, TAME, EDB, 1.2-DCA not analyzed.

⁵ Metals analyses not conducted. Tank removal and subsequent subsurface investigation were conducted under Oakland Fire oversight.

⁶ Grab groundwater samples were collected prior to soil excavation from underneath the former UST. No post excavation groundwater sampling was conducted in the vicinity. Tank removal and subsequent subsurface investigation activities were conducted under Oakland Fire oversight.

⁷ Soil was excavated from underneath the former UST. However, confirmation soil samples were not collected. Tank removal and subsequent subsurface investigation activities were conducted under Oakland Fire oversight. NA - Not Analyzed

Site History and Description of Corrective Actions:

The Site is located at 2100-2150 Franklin Street in Oakland, California (see Figure 1). The Site is located in a mostly commercial area approximately 1,000 feet west of Lake Merritt in Oakland. All site investigation activities were conducted under the oversight of Oakland Fire Prevention Bureau during the construction of the high rise building. ACEH accepted oversight of the case on July 21, 2008 by which time the construction of the high rise office building was complete.

In the first half of 2006, the subject site was excavated to a depth of approximately 12 feet below the Franklin Street sidewalk for construction of a high-rise office building. During excavation at the site, the top of a heating oil UST was discovered on May 12, 2006 at a depth of approximately 8 feet below the Franklin Street sidewalk (see **Figure 2**). Based on an inspection of the UST at the time of discovery, it appears that that the UST had been previously filled with concrete. The UST was measured as approximately four feet, four inches in diameter and approximately 12 feet in length. The UST was removed from the UST pit and demolished and stored on site on May 23, 2006. All UST removal and demolition activities were performed following notification to, permitting with, and inspection of the UST by the City of Oakland Fire Prevention Bureau.

At the time of UST removal, two soil samples (T1-0.0 and T2-0.0) were collected from directly beneath the UST following excavation of approximately a one foot thick layer of loose, oily soil. The depth of collection for these two samples was equivalent to a depth of approximately 13 feet below the adjacent Franklin Street sidewalk. Sample T1 was collected at the north end of the UST, and sample T2 was collected at the south end of the UST. Two additional

soil samples (T1-2.0 and T2-2.0), were collected at a depth of two feet below the first two samples, which was equivalent to a depth of approximately 15 feet below the adjacent Franklin Street sidewalk. In addition, one groundwater grab sample was collected from borehole B1 at a depth of five feet beneath the bottom of the UST (approximately 17 feet below the adjacent Franklin Street sidewalk). Petroleum sheen was observed on the water collected from borehole B1 was hand-augered directly beneath the UST. The groundwater grab sample from borehole B1 (designated as B1-Water) did not detect MTBE or BTEX, however, TPH-d, TPH-mo, and TPH-bo were detected at concentrations of 64,000, 57,000, and 96,000 micrograms per liter (ug/L), respectively. Sampling locations are illustrated on **Figure 3** and analytical results are summarized on **Table 1**. It is noteworthy that the laboratory identified the TPH-d results as fuel oil-range compounds. The UST and concrete that was inside the UST were removed from the site on May 31, 2006.

Borehole B2 was hand-augered near the UST pit to first encountered groundwater, which was encountered at a depth similar to the depth at which groundwater was encountered in borehole B1 (see Figure 3). No petroleum sheen was observed on the water in borehole B2. According to RGA, the subsurface materials encountered in boreholes B1 and B2 consisted of interlayered silty clay, fine-grained sand, silt, and clay.

At the time of UST removal, the entire site had been excavated to a depth of approximately 10 feet below the Franklin Street sidewalk. After the UST was demolished, soil at the site was removed to a depth of approximately 12 feet below the Franklin Street sidewalk. This depth was approximately the same depth as the depth of the bottom of the UST.

As part of the site construction, in July 2006 a grade beam was partially installed at the base of the west wall of the mass excavation, adjacent to Franklin Street. The grade beam trench measured approximately four feet wide and three feet deep. Soil removed from below the former UST and for a distance of approximately 10 feet from each end of the former UST in the grade beam trench was stockpiled on plastic and subsequently disposed of at the Richmond landfill. However, confirmation soil samples do not appear to have been collected.

As part of the construction activities at the site, a total of five dewatering wells were installed at the south end of the site in June, 2006. According to RGA, the pump intakes for the dewatering wells were set at a depth of approximately 15 feet below the bottom of the mass excavation (approximately 27 feet below the Franklin Street sidewalk). Groundwater at the site was encountered during UST removal at a depth of approximately five feet below the bottom of the UST prior to site dewatering.

At the time of initial subsurface investigation the groundwater flow direction at the site was unknown. Although Lake Merritt is located to the east and southeast of the site, review of the topographic contours illustrated in **Figure 4** suggested that the groundwater flow direction at the site could be to the west or southwest. Based on the site vicinity topography, offsite boreholes were proposed in the presumed down-gradient direction to the west and southwest of the subject site.

Borings B7 through B12 and offsite borings B13 through B22 were installed between June 5, 2006 and March 20, 2007. Excavation of petroleum-impacted soil was performed on August 11, 2006. Excavation of petroleum-impacted soil from the immediate vicinity of the former UST and hand augering borings C1 through C3 was performed in accordance with RGA's Soil Excavation Work Plan dated August 8, 2006 addressed to and conducted under the oversight of the City of Oakland Fire Department, Groundwater monitoring well installation for onsite wells MW1 and MW2 to a depth of 13.0 feet below the bottom of the mass excavation was conducted on August 15, 2006. Well installation was performed in accordance with RGA's Well Installation Work Plan dated August 14, 2006, also conducted under the oversight of the City of Oakland Fire Department. Based on contaminant concentrations detected in offsite drilling locations B13, B16 and B17 and telephone conversations between RGA personnel and Inspector Jesse Kupers of the City of Oakland Fire Department, offsite drilling locations B14 and B15 were moved from the originally proposed locations identified in the work plan and drilling location B18 was added to the scope of work. Additional offsite boreholes B19 through B22 were drilled to delineate the extent of groundwater contamination down-gradient of the site following discussions with Inspector Kupers. Off-site boring installation included logging of soil conductivity logs to a depth of approximately 60 feet and collection of depth-discrete groundwater samples below first encountered water using a Hydropunch for vertical delineation of the extent of petroleum in groundwater. The groundwater sample results associated with the investigation are summarized in Table 2 and sampling locations are illustrated on Figures 5 and 6.

Additional borings were installed under the oversight of Oakland Fire to delineate the extent of the groundwater contaminant plume. On July 23, 2008 RGA personnel oversaw the drilling of boreholes B23, B25, and B26; on July 29, 2008 RGA personnel oversaw the drilling of borehole B24; on August 28, 2008 RGA personnel oversaw the drilling of boreholes B27 and B30; and on November 15, 2008 RGA personnel oversaw the drilling of boreholes B31 through B33 at locations shown on **Figures 6**. Each of the borings was hand-augered to depths ranging from 2.5 to 8.0 feet below the ground surface (bgs) using a 3.5-inch O.D. hand auger for underground utility clearance, and then drilled to depths ranging from 8.0 to 30 feet bgs. Boreholes B31 through B33 were drilled in a parking garage using a

limited access drill rig. Drilling refusal was encountered in borehole B23 at a depth of 8.0 feet bgs, and in boreholes B31, B32 and B33 at depths of 13.5, 16.0, and 14.0 feet bgs, respectively. All the borings were continuously cored using Geoprobe Macrocore barrel samplers lined with transparent PVC sleeves. The soil from the boreholes was evaluated with a Photoionization Detector (PID) equipped with a 10.6 eV bulb and calibrated with a 100 ppm isobutylene standard. The soil was also evaluated for other evidence of petroleum hydrocarbon contamination such as odors, staining, and discoloration. Elevated PID values, odors, staining, or discoloration were detected only in borehole B32, and a slight oily odor was encountered in borehole B24 between the depths of 14.0 and 20.0 feet bgs. One groundwater grab sample was collected from each borehole except for B23 where drilling refusal was encountered at a depth of 8.0 feet and no groundwater was encountered in the borehole. The groundwater grab samples were collected from boreholes B25, B27 and B30 through B33 using a temporary 1-inch diameter slotted PVC pipe and a polyethylene tube with a stainless steel check valve. In boreholes B24 and B26 the boreholes collapsed when the drilling rods were removed from the boreholes after the boreholes had been drilled to 30.0 and 25.0 feet bgs, respectively. In borehole B24 the Hydropunch was pushed to 30.0 feet bgs and the outer rod retracted to 26.0 feet bgs for groundwater sample collection. In borehole B26 the Hydropunch was pushed to 27.0 feet bgs and the outer rod retracted to 22.0 feet bgs for groundwater sample collection. Following removal of the Hydropunch rod from borehole B24 the borehole collapsed again, preventing measurement of the depth to groundwater in the borehole. Following removal of the Hydropunch rod from borehole B26, the borehole did not collapse and the measured depth to groundwater in the borehole was 17.4 feet bgs. Significantly elevated concentrations of TPH-g, TPH-d, TPH-mo, TPH-bo, and benzene were detected in a grab groundwater sample collected from B32. Boring B32 is located at 300 Lakeside Drive, a closed LOP case #RO0000911. Based on a review of the RO0000911 case file, the concentrations of contaminants detected in B32W are not consistent with residual concentrations that were left in place at the time the case closure was issued in October 1993. ACEH records indicate that residual concentrations of TPH-g and TPH-d were detected at 28mg/kg and 2.4 mg/kg, respectively, while benzene was not detected above the laboratory detection limit. All groundwater results at the time of closure did not detect TPH-g, TPH-d and BTEX above the laboratory detection limit. Therefore, detectable concentrations of TPH-g, TPH-d, and benzene do not appear to be consistent with the contaminants of concern detected at the subject site and are most likely related to past activities at 300 Lakeside Drive. Although elevated concentrations of Bunker Oil were detected at this location (boring B32) and Bunker Oil is a chemical of concern at the subject site, the results appear anomalous or skewed due to the presence of gasoline and diesel range contaminants present at 300 Lakeside Drive. Borings locations are illustrated on Figure 6 and analytical results are summarized on Table 2.

Soil generated during drilling was stored in drums at the subject site pending characterization and disposal. A total of two drums of soil were removed from the subject site on November 18, 2009 as non-hazardous waste. The soil was removed by Clearwater Environmental, Inc. of Union City, California, and was transported to the Alviso Independent Oil facility in Alviso, California using non-hazardous waste manifest number 6195.

Post Remediation Groundwater Monitoring

Groundwater monitoring was conducted at the site following the completion of the remedial excavation in July 2006. Monitoring well sample analytical results are summarized on **Table 3** and monitoring well locations are illustrated on **Figure 5**.

Residual Contamination Summary

The construction of the 21-story office building involved installation and operation of dewatering well during the construction. This activity likely removed contaminated groundwater in the vicinity of the building. The investigation performed under the oversight of the Oakland Fire Department revealed that an extensive Bunker C plume exists at depths of 25 to 60 feet bgs that spans nearly 1,000 feet to the south southwest of the site. Due to the age and lack of BTEX constituents, the contaminant plume in its current state does not appear to pose an appreciable risk to human health or the environment. However, an inactive water supply well has been identified near the down-gradient to cross-gradient edge of the contaminant plume. Prior to the case closure of this site, notification to the water supply well owner will be made identifying the nearby contaminant plume and the inherent risk of drawing in contaminated water by the use of this well.

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a significant risk to human health based upon current land use and conditions.

Site Management Requirements: Case closure for this fuel leak site is granted for the current commercial land use and existing building configuration use only. If a modification to the existing subsurface structure(s) or a change in land use to any residential or other conservative land use scenario is proposed at this site, Alameda County Environmental Health (AECH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.

Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party (or current property owner/developer) prior to and during excavation and construction activities. This site is to be entered into the Oakland Permit Tracking System.

Number Decommissioned: 0

Should corrective action be reviewed if land use changes? Yes.

Was a deed restriction or deed notification filed? No

Monitoring Wells Decommissioned: No

Number Retained: 2

Date Recorded: --

List Enforcement Actions Taken: None

List Enforcement Actions Rescinded: ---

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

- Residual hydrocarbons in soil at concentrations of 7,300 mg/kg TPH-d and 5,700 mg/kg TPH-mo may remain at the site. Excavation activities were overseen by Oakland Fire Department. Confirmation soil samples were not collected following excavation activities and construction of the 21 story office towers. Actual residual concentrations are unknown.
- Residual hydrocarbons in groundwater at concentrations of 230 µg/L TPH-g, 64,000 µg/L TPH-d, 57,000 µg/L TPH-mo, and 96,000 µg/L TPH-bo, may remain on-site. Confirmation groundwater samples were not collected following excavation activities. Actual residual concentrations are unknown.
- Disposal destination, amount, and analytical results for groundwater from site dewatering was not reported.
- Dissolved phase Bunker C plume is present at 25 to 60 feet bgs and extends approximately 1,000 feet south, southeast direction from the site.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significantly threat to water resources, public health and safety, and the environment under the current commercial land use as a 21-story office building based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary unless a modification to the existing subsurface structure, or a change in land use to any residential or other conservative land use scenario occurs at the site. ACEH staff recommend closure for the site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Paresh Khatri	Title: Sr. Hazardous Materials Specialist			
Signature: Monthat	Date: March 5, 2012			
Approved by: Donna L. Drogos, P.E.	Title: Division Chief			
Signature:	Date: 5/18/12			

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 5/18/2012	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 7/2012	Date of Well Decommissioning Re	eport: 10/30/2012
All Monitoring Wells Decommissioned:	Number Decommissioned: 2.	Number Retained: ϕ
Reason Wells Retained: N/A		
Additional requirements for submittal of groundw	vater data from retained wells: None	
ACEH Concurrence - Signature: Mana	ŧ	Date: 11/15/2012

Attachments:

- 1. Site Figures 1 through 8
- 2. Analytical Tables 1 through 4
- 3. Boring Logs (48 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

Khatri, Paresh, Env. Health

From:	Cherie MCcaulou [CMccaulou@waterboards.ca.gov]	
Sent:	Friday, July 20, 2012 9:51 AM	
To:	Khatri, Paresh, Env. Health	
Subject:	Re: FW: RO0002894; Closure Summary for Center 21 Franklin Tower	(T1000000422)

Dear Paresh - Thank you for the notification of case closure for Center 21 Franklin Tower located at 2100-2150 Franklin Street in Oakland. We understand ACEH will proceed with case closure.

>>> "Khatri, Paresh, Env. Health" paresh.khatri@acgov.org 7/12/2012 8:46 AM >>> Hello Cherie,

I was wondering whether you got this closure that I sent to you a couple of months ago, as I don't think that I have received your response. I look forward to hearing from you soon.

Sincerely,

Paresh C. Khatri Sr. Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502-6577

Phone: (510) 777-2478 Fax: (510) 337-9335

E-mail: Paresh.Khatri@acgov.org

http://www.acgov.org/aceh/index.htm

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From: Khatri, Paresh, Env. Health
Sent: Friday, May 18, 2012 5:54 PM
To: 'Cherie MCcaulou'
Cc: Drogos, Donna, Env. Health
Subject: RO0002894; Closure Summary for Center 21 Franklin Tower (T1000000422)

Hello Cherie,

Attached is a closure summary for RO0002984; Center 21 Franklin Tower located at 2100-2150 Franklin Street in Oakland to comply with the RWQCB's 30-day review period. If no comments from the RWQCB are received within the 30-day review period, ACEH's will proceed with case closure.

Please contact me should you have any comments or questions regarding the subject site.

Sincerely,

Sr. Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502-6577

Phone: (510) 777-2478 Fax: (510) 337-9335

E-mail: Paresh.Khatri@acgov.org

http://www.acgov.org/aceh/index.htm

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TABLE 1 SUMMARY OF LABORATORY ANALYTICAL RESULTS UST PIT SOIL SAMPLES (Samples Collected on May 23, 2006)

Sample No.	TPH-G	ТРН-D	ТРН-МО	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
T1-0.0	300,a	7300,Ь	5700	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50
T1-2.0	10, a	990,b	880	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
T2-0 .0	9.7,a	170,6	150	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
T2-2.0	6.9,a	780,b	690	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
ESL ₁	100	100	1000	0.023	0.044	2.9	3.3	2.3

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

ND = Not detected.

a = Laboratory report note: strongly aged gasoline or diesel range compounds are significant.

b = Laboratory report note: fuel oil.

ESL₁ = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB) updated February 2005, from Table A – Shallow Soils, Groundwater is a current or potential source of drinking water (commercial land use).

Results are in milligrams per kilogram (mg/kg), unless otherwise noted.

TABLE 2

SUMMARY OF LABORATORY ANALYTICAL RESULTS HISTORIC ONSITE GROUNDWATER SAMPLES (Samples Collected on May 23, June 5-6, and August 11, 2006)

Sample No.	Depth (feet)**	TPH-G	TPH-D	TPH-BO	ТРН-МО	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
B1-Water	5.0	54,a,c	64,000,d,c	96,000	57,000	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B7-Water	5.2	ND<50	ND<50	53,f	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B8-Water	5.9	54,b	78,e	120	ND<250	ND<5.0	ND<0.5	ND<0.5	2.4	14
B9-Water	6.3	ND<50	ND<50	82,f	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	0.70
B10-Water	7.3	ND<50	ND<50	99	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B11-Water	6.6	ND<50	200,d	400	320	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B12-Water	6.2	ND<50	60	170	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
C1-Water	13.5	ND<50	ND<50	63,f	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
C2-Water	11.0	ND<50	5,700,d	9,000	6,400	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
C3-Water	14.0	ND<50	200,d	350	300	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
ESL		100	100	100	100	5.0	1.0	40	30	20

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

MTBE = Methyl Tertiary-Butyl Ether

ND = Not Detected.

a = Laboratory Reporting Note: strongly aged gasoline or diesel range compounds are significant.

b = Laboratory Reporting Note: heavier gasoline range compounds are significant (aged gasoline).

c = Laboratory analytical report note: lighter than water immiscible sheen/product is present.

d = Laboratory analytical report note: oil range compounds are significant.

e = Laboratory Reporting Note: one to a few isolated peaks present.

f = Laboratory Reporting Note: value is an estimate.

** Depth is measured from bottom of mass excavation, which is approximately 12 feet below ground surface.

ESL₁ = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A - Groundwater is a current or potential source of drinking water.

Results in bold exceed their respective ESL value.

No groundwater samples were collected from boreholes B2 through B6. Results are in micrograms per Liter (ug/L), unless otherwise noted.

TABLE 2 Continued)SUMMARY OF LABORATORY ANALYTICAL RESULTSHISTORIC OFFSITE GROUNDWATER SAMPLES

(Samples Collected on November 8, 14, 16, 2006, January 30, February 1, and March 19 and 20, 2007)

Sample No.	Depth (feet)	TPH-G	TPH-D	ТРН-ВО	ТРН-МО	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
B13a-28W	28.0	ND<50	150. d	1.300	890	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B13-41W	41.0	ND<50	ND<50	150	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B14-27W	27.0	ND<50	86, d,e	650	560	ND<5.0	ND<0.5	0.61	ND<0.5	ND<0.5
B14a-56W	56.0	ND<50	ND<50	230	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B15-30W	30.0	ND<50	68, d	680	630	ND<5.0	ND<0.5	0.90	ND<0.5	1.9
B15a-60W	60.0	ND<50	63	290	ND<250	ND<5.0	ND<0.5	0.65	ND<0.5	1.0
B16-25W	25.0	ND<50	ND<50	380	250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B17a-34W	34.0	ND<50	530, d	1,400	1,000	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B17b-41W	41.0	ND<50	ND<50	340	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B18-25W	25.0	ND<50	340, d	2,700	2,400	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B18a-59W	59.0	ND<50	69	240	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B19-20W	20.0	ND<50	560, d	2,100	1,700	ND<5.0	ND<0.5	0.80	ND<0.5	ND<0.5
B19a-52W	52.0	ND<50	140, d	530	560	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B20-20W	20.0	ND<50	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B21-20W	20.0	ND<50	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	1.2
B22-20W	20.0	ND<50	220, d	1,500	1,200	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
ESL ₁		100	100	100	100	5.0	1.0	40	30	20

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.

MTBE = Methyl Tertiary-Butyl Ether

ND = Not detected above laboratory reporting limit.

a = Laboratory Reporting Note: strongly aged gasoline or diesel range compounds are significant.

b = Laboratory Reporting Note: heavier gasoline range compounds are significant (aged gasoline).

c = Laboratory analytical report note: lighter than water immiscible sheen/product is present.

d = Laboratory analytical report note: oil range compounds are significant.

e = Laboratory Reporting Note: one to a few isolated peaks present.

f = Laboratory Reporting Note: value is an estimate.

ESL₁ = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A - Groundwater is a current or potential source of drinking water.

Results in bold exceed their respective ESL value.

No groundwater samples were collected from boreholes B2 through B6.

Results are in micrograms per Liter (ug/L), unless otherwise noted.

TABLE 2

SUMMARY OF LABORATORY ANALYTICAL RESULTS CURRENT INVESTIGATION GROUNDWATER GRAB SAMPLES (Samples collected July 23 through November 15, 2008)

Sample No.	TPH-G	TPH-D	ТРН-ВО	TPH-MO	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
B24W	ND<50	130, d,h	420	350	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B25W	ND<50	1,900, g	1,900	620	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B26W	190, b, c	37,000, c, g	40,000	15,000	ND<5.0	ND<0.5	14	0.98	3.6
B27W	ND<50	ND<50	ND<100	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
B30W	ND<50	780, d, h	3,700	2,900	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
ESL ₁	100	100	100	100	5.0	1.0	40	30	20

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

MTBE = Methyl Tertiary-Butyl Ether

ND = Not Detected.

a = Laboratory Reporting Note: strongly aged gasoline or diesel range compounds are significant.

- b = Laboratory analytical report note: heavier gasoline compounds are significant (aged gasoline?).
- c = Laboratory analytical report note: lighter than water immiscible sheen/product is present.

d = Laboratory analytical report note: oil range compounds are significant.

e = Laboratory Reporting Note: one to a few isolated peaks present.

f = Laboratory Reporting Note: value is an estimate.

g = Laboratory analytical report note: fuel oil.

h = Laboratory analytical report note: diesel range compounds are significant; no recognizable pattern.

i = Laboratory analytical report note: gasoline range compounds are significant.

ESL=Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A – Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water

BOLD = Concentration in excess of applicable ESL.

Results in µg/L, unless otherwise indicated.

TABLE 2 (Continued) SUMMARY OF LABORATORY ANALYTICAL RESULTS CURRENT INVESTIGATION GROUNDWATER GRAB SAMPLES (Samples collected July 23 through November 15, 2008)

Sample No.	TPH-G	TPH-D	TPH-BO	ТРН-МО	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
B31W	ND<50	110, d,h	480	270	ND<5.0	ND<0.5	4.0	0.93	7.6
B32W	130,000	170,000, i	160,000	ND<12,000	ND<5.0	2,700	15,000	4,300	23,000
B33W	230	440, d,i	1,700	1,300	ND<5.0	3.0	21	9.0	51
ESL ₁	100	100	100	100	5.0	1.0	40	30	20

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

MTBE = Methyl Tertiary-Butyl Ether

ND = Not Detected.

a = Laboratory Reporting Note: strongly aged gasoline or diesel range compounds are significant.

b = Laboratory analytical report note: heavier gasoline compounds are significant (aged gasoline?).

c = Laboratory analytical report note: lighter than water immiscible sheen/product is present.

d = Laboratory analytical report note: oil range compounds are significant.

e = Laboratory Reporting Note: one to a few isolated peaks present.

f = Laboratory Reporting Note: value is an estimate.

g = Laboratory analytical report note: fuel oil.

h = Laboratory analytical report note: diesel range compounds are significant; no recognizable pattern.

i = Laboratory analytical report note: gasoline range compounds are significant.

ESL=Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A – Shallow Soil Screening Levels, Groundwater is a current or potential source of drinking water

BOLD = Concentration in excess of applicable ESL.

Results in µg/L, unless otherwise indicated.

Report 0387.R8

Table 3

Summary of Monitoring Well Groundwater Sample Analytical Results

Well ID	SampleDate	TPH-G	TPH-D	TPH-BO	MTBE	BTEX*	Other VOCs **	PAHs				
MW1	5/7/2009	ND<50	ND<50	ND<100	ND<5.0	ND<0.5	All ND<0.5, except TBA ND<2.0	ND<0.5				
MW2	5/7/2009	ND<50	ND<50	ND<100	ND<5.0	ND<0.5	All ND<0.5, except TBA ND<2.0	ND<0.5				
Notes:												
TPH-G = '	Total Petroleun	n Hydrocar	bons as G	asoline.								
TPH-D =	Total Petroleum	h Hydrocar	bons as D	iesel.								
TPH-BO =	Total Petroleu	m Hydroca	arbons as l	Bunker Oil								
MTBE = N	Methyl Tertiary	Butyl Ethe	er.									
BTEX* =	benzene, toluer	ne, ethylber	nzene, & x	ylenes by l	EPA Meth	od 8021B.						
Other VOCs** = Volatile Organie Compounds; including BTEX using EPA Method 8260B.												
PAHs = Pc	PAHs = Polyaromatic Hydrocarbons.											

Table 4 Summary of Measured Depth to Groundwater in Wells

Well No	Date	Top of Casing Elevation (ft)*	Depth To Water (ft)	Water Table Elevation (ft)
I MW1	5/7/2009	Not Surveyed	3.89	Not Surveyed
	2/20/2007		6.42	Not Surveyed
	8/15/2006		8.50 **	Not Surveyed
MW2	5/7/2009	Not Surveyed	4,11	Not Surveyed
	1/30/2007		9.33***	Not Surveyed
	8/15/2006		8.50 **	Not Surveyed

NOTES: * = Not surveyed.

** = Initial water level measurement in monitoring well borehole.

*** = Prior to well development.



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WELL CONSTRUCTION DIAGRAM

PROJECT NAME 2100 Franklin Ave TOP OF CASING ELEV. N/A COUNTY Alameda GROUND SURFACE ELEVATION N/A WELL PERMIT NO. W2006-0718 DATUM None Looking water-tight well cover Locking well plug DATE(S) CONSTRUCTED 8/15/2006 Image: Construction of the second	PROJECT NUMBER 0387	BORING/WELL NOMW1
COUNTY Alameda GROUND SURFACE ELEVATION N/A WELL PERMIT NO. W2006-0718 DATUM None DATE(S) CONSTRUCTED 8/15/2006 Locking water-tight well cover Locking well plug BATE(S) CONSTRUCTED 8/15/2006 Image: Construction of the second of the seco	PROJECT NAME 2100 Franklin Ave	TOP OF CASING ELEVN/A
WELL PERMIT NO. W2006-0718 DATUM None Locking water-tight well cover Locking well plug DATE(S) CONSTRUCTED 8/15/2006 A Total depth 13 ft. b Diameter 8 in. Drilling method Hollow Stem Auger WELL CONSTRUCTION c Casing length 13 ft. d h diameter 2 in. Diameter 8 in. Diameter 2 in. B Detto top of perforations 5 ft. in. Detroated length 8 ft. Perforation type Factory Slot Perforation size 0.011 in. g. Surface sanitary seal 1 ft. Seal material Neat Cement Grout h. Sanitary seal 2.ft. Seal material Neat Cement Grout j. j. Filter pack length 9 ft. Filter pack length 9 ft. Seal material Neaterial Materials Sack Sand k. Bottom seal 0 ft. Seal material None 1 </td <td>COUNTY Alameda</td> <td>_ GROUND SURFACE ELEVATION</td>	COUNTY Alameda	_ GROUND SURFACE ELEVATION
Locking water-tight well cover Locking well plug Image: cover state of the state	WELL PERMIT NO. W2006-0718	_ DATUMNone
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Filter pack interval from <u>4</u> to 13 ft. Pack material <u>#2/16 RMC Pacific</u> <u>Materials Sack Sand</u> k. Bottom seal <u>0 ft.</u> Seal material <u>None</u> I. Sluff in bottom of borehole <u>0 ft.</u>		j. Filter pack length <u>9 ft</u> .
Pack material <u>#2/16 RMC Pacific</u> <u>Materials Sack Sand</u> k. Bottom seal <u>0 ft</u> . b I I. Sluff in bottom of borehole <u>0 ft</u> .		Filter pack interval from <u>4 to 13 ft</u> .
Materials Sack Sand k b k Bottom seal 0 ft. Seal material None I I Sluff in bottom of borehole 0 ft.		Pack material <u>#2/16 RMC Pacific</u>
k. Bottom seal 0 ft. b k Seal material None b I I. Sluff in bottom of borehole 0 ft.		Materials Sack Sand
b I I. Sluff in bottom of borehole <u>0 ft</u> .		k. Bottom seal <u>0 ft</u> .
I I. Sluff in bottom of borehole0 ft.		Seal material None
		I. Sluff in bottom of borehole0 ft.



1466 - 66th Street, Emeryville, CA 94608 Fax: 510-834-0152 Tel: 510-658-4363 Email: RGAEnv@aol.com

WELL CONSTRUCTION DIAGRAM

PROJECT NUMBER 0387	BORING/WELL NOMW2
PROJECT NAME 2100 Franklin Ave	TOP OF CASING ELEV. N/A
COUNTYAlameda	GROUND SURFACE ELEVATION
WELL PERMIT NO	DATUM None
	DATE(S) CONSTRUCTED 8/15/2006
Locking water-tight well cover	EXPLORATORY BORING
Manhadel & Balk was	a. Total depth <u>13 ft</u> .
	b. Diameter <u>8 in</u> .
	Drilling method Hollow Stem Auger
	WELL CONSTRUCTION
	c. Casing length13 ft.
e n n	d. Material Schedule 40 PVC
	d. Diameter <u>2 in</u> .
	e. Depth to top of perforations <u>5 ft</u> .
	f. Perforated length <u>8 ft</u> .
	Perforated interval from 5 to 13 ft.
	Perforation type Factory Slot
	Perforation size0.01 in.
	g. Surface sanitary seal <u>1 ft</u> .
	Seal material Neat Cement Grout
	h. Sanitary seal2 ft.
	Seal material Neat Cement Grout
	i. Filter pack seal1 ft.
	Seal material Bentonite Pellet
	j. Filter pack length9_ft.
	Filter pack interval from <u>4 to 13 ft</u> .
	Pack material #2/16 RMC Pacific
	Materials Sack Sand
	k. Bottom seal _0_ft.
	Seal material None
b b l	I. Sluff in bottom of borehole0 ft.

OP OF CA	SING ELEV.	N/A		
ROUND S	URFACE ELEVAT		N/A	_
ATUM _	None			_
ATE(S) CC	NSTRUCTED	8/15/2	2006	_
	EXPLORATORY E	BORING		
Total de	pth		13	ft.
Diamete	r		8	in.
Drilling r	nethod Hollow	Stem A	Auger	_
	WELL CONSTRU	CTION		
Casing I	ength	-	13	ft.
. Material	Schedule 40 F	VC	_	-
Diamete	r		2	in.
Depth to	top of perforation	s.	5_	ft.
Perforate	ed length		8	ft.
Perforate	ed interval from	5 to	13	ft.
Perforat	ion type Factor	v Slot		

вс	RING	NO.:	MW1 PROJECT NO.: 038	7 PROJECT	NAME:	2100 Franklin Ave, Oa	kland, C	A			
BC	RING	OCAT	TION: In mass excavation Southeast of forme	er UST ELEVATIO	N AND DAT	UM: None					
DF	ILLING	AGE	NCY: Vironex, Inc.	DRILLER: Tim		_	DAT	E & TIME 8/15	STARTED:	DATE & TIME FINISHED: 8/15/06	
cc	MPLE		DEPTH: 13.0 FEET	BEDROCK DEPTH: Nor	e Encounte	red		LOGGE	D BY:	CHECKED BY: DM GIBBS	
FIF	IST W	ATER	DEPTH: 8.5 FEET	NO. OF SAMPLES: 0				UN	iG .	P.G. 7804	
	DEPTH(FT.)		DESCRIPTIO	N	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS	
TELETER DE LE DE L		11111111	0 to 3.0 ft. Brown clay (CL); mo low to medium pla No Petroleum Hydrocarbor 3.0 to 6.0 ft. Bruwn clay (CL) medium plasticity. No (sticity. a (PHC) odor. b (PHC) odor. c (moist, fine sand, c (PHC) odor.	CL				Borin 8-incl 5 Log cc cullecte	g drilled using an a diameter hollow stem auger. onstructed from soil ed from auger flights.	
11111	5	11/11	6.0 to 7.5 ft. Brown clay (CL);	dry, with fine sand, -	CL	See attached Well Construction			Grou encou 1;	undwater initially intered at 8.5 feet, 2:10 , 8/15/06.	
11111		++++	7.5 to 8.5 ft. Brown clay (C to coarse sand, low plasticity	CL); dry, with fine	CL Y	Diagram			Sta meas 1	tic groundwater sured at 6.4 feet, 4:30, 2/20/07.	
	10	111111	8.5 to 13.0 ft. Brown clayer with fine to coarse sand. N	y sand (SC); wet, Na (PHC) odor.	sc				NOTE: Borehole initiate at bottom of mass excavation. Add 12.0 feet to depth as reporte an log in order to obtai		
1 LLLL	15	1111							dep	th below ground surface.	
		TITT							Boreh 13.0 fe	tole terminated at eet (25.0 feet bgs) on 8/15/06.	
	20	1111							wenco	onstructed 8/15/06.	
LILL		1111									
LITTI	25	111111									
	30	TITT									

BO	RING	NO.:	MW2 PROJECT NO.: 0387 PROJECT NA	ME:	2100 Franklin Ave, Oa	kland, C	A		
во	RING	LOCA	ATION: In mass excavation Southeast of former UST ELEVATION	AND DATU	JM: None				
DR	LLING	AGE	ENCY: Vironex, Inc. DRILLER: Tim			DAT	E & TIME 8/15	STARTED:	DATE & TIME FINISHED: 8/15/06
CO		TION		Enner			10001	D BY.	CHECKED BY
FIR	STW	ATER	R DEPTH: 8.5 FEET NO. OF SAMPLES: 0	Enconniel	leu .		DM	IG	DM GIBBS P.G. 7804
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS
		11111	0 ft to 3.0 ft Brown to deep-brown clay (CL); trace fine sand, low plasticity, dry. No Petroleum Hydrocarbon (PHC) odor	CL				Boring 8-inch s Log co	g drilled using an a diameter hollow stem auger. onstructed from soil
111111	5	111111	3.0 ft to 7.5 ft Brown to deep-brown clay (CL); some coarse sand, well graded, low plasticity, moist. No PHC odor.	CL ₹	See attached Well Construction			Grou encou 14	undwater initially intered at 8.5 feet, 4:30, 8/15/06.
		1111	7.5 ft to 8.5 ft Brown clayey sand (SC); well graded fine to coarse grained sand, moist. / No PHC odor. /	SC ∑	Diagram			Sta meas 1-	tic groundwater sured at 6.56 feet, 4:30, 2/20/07.
LI LI LI	10	11111	8.5 ft to 13.0 ft Brown clayey sand (SC); well graded fine to coarse grained sand, wet.	SC				NOTE: at l exca feet to	Borehole initiated bottom of mass vation. Add 12.0 depth as reported in order to obtain
	15	IIIII						dep	th below ground surface.
LI II III		11111						Boreh 13.0 fe Well co	ole terminated at eet (25.0 feet bgs) on 8/15/06. onstructed 8/15/06.
I I I I I	20	11111							
	25	11111111							
THEFT	30	11111							-

во	RING	NO.:	C1	PROJECT NO.: 0387	PROJECT	NAME: 210	0 Franklin Ave, Oakla	nd, CA			
BO	RING	LOCA	TION: At Northeast end	of former UST	ELEVATIO	N AND DATU	JM: None			-	
DR	ILLING	AGE	NCY: RGA Environment	al, Inc. Stainless Steel Hand Auge	DRILLER: PHK			DAT	E & TIME 8/11	E STARTED: 1/06	DATE & TIME FINISHED: 8/11/06
со	MPLE	TION	DEPTH: 13.5	FEET	BEDROCK DEPTH: Nor	ie Encounter	red		LOGGI	ED BY:	CHECKED BY: DM GIBBS
FIF	ST W	ATER	DEPTH: 12.0	FEET	NO. OF SAMPLES: 1 Se	ill, 1 Water				1	P.G. 7804
	DEPTH(FT.)			DESCRIPTION		GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DIA		REMARKS
	1 2 3	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	Excavated Area				No Well Constructed			Boreh using stainle auger. First w at 12.1 13:40, Water 10.3 ft 13:48, groun sampl a Tefle rope. I odor co	ole hand augered a 3.5-inch O.D. iss steel hand vater encountered D ft during drilling, 8/11/06. measured at in borehole, 8/11/06. One dwater grab e collected using on bailer and No sheen or PHC on water sample.
	4 5		3.0 ft to 6.0 ft B fine sand, oran Hydrocarbon (P	rown silt (ML); mi ge moftling. No Pe 'HC) odor.	nor clay, minor etroleum	ML				collec stainle tube. Boreh 13.5 ff Boreh neat c 8/11/C NOTE at botto excavat to deptil to obtai ground	ted in 2-inch O.D. ess steel sampling ole terminated at ., 8/11/06. ole backfilled with eement grout, 16. Borehole initiated m of mass tion. Add 12.0 feet h as reported on log in depth below surface.

PAGE 2 OF 3

BORING N	D.: C1 PROJECT NO.: 0387 PROJECT N/	ME: 2100	Franklin Ave, Oakl	and, CA		
BORING L	OCATION: At Northeast end of former UST ELEVATION	AND DATUR	I: None			
DRILLING	AGENCY: RGA Environmental, Inc. DRILLER: PHK		DATE	E & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING	EQUIPMENT: 3.5-inch O.D. Stainless Steel Hand Auger				av 11706	di linda
COMPLET	COMPLETION DEPTH: 13.5 FEET BEDROCK DEPTH: None Encountered					CHECKED BY: DM GIBBS
FIRST WA	ER DEPTH: 12.0 FEET NO. OF SAMPLES: 1 Soil,	1 Water		-	r ns	P.G. 7804
DEPTH(FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	OId	REMARKS
	(continued from page 1) X 6.0 to 6.75 ft Brown medium sand (SP); dense, wet. No PHC odor.	SP				
7	6.75 to 8.0 ft Brown silty clay (CL); fine to coarse sand, orange and faint gray mottling, medium stiff, moist. No PHC odor.	CL				
9	8.0 ft to 10.0 ft Brown silty sand (SM); fine sand, minor clay, dense, orange mottling. No PHC odor.	SM				
- 10 	10.0 ft to 12.0 ft Brown silty sand (SM); fine sand, minor clay, gray mottling, dense. No PHC odor.	SM	▼ II			
12	(continued on page 3)		$\overline{\nabla}$			

PAGE 3 OF 3

				nd, CA	nklin Ave, Oakla	AME: 2100 F	CT NA	387 PROJE	PROJECT NO .: 038		O.: C1	RING N	BOR
					None	AND DATUM:	TION A	ELEVA	theast end of former UST	At Northeast	OCATION:	RING L	BOR
DATE & TIME FINISHED: 8/11/06 CHECKED BY: DM GIBBS P.G. 7804	DATE & TIME STARTED: 8/11/06				DRILLING AGENCY: RGA Environmental, Inc. DRILLER: PHK DRILLING EQUIPMENT: 3.5-Inch O.D. Stainless Steel Hand Auger					DRI			
	LOGGED BY:		ed LOG			COMPLETION DEPTH: 13.5 FEET BEDROCK DEPTH: None Encountere							
		РНК			, 1 Water	1 Soil,	FIRST WATER DEPTH: 12.0 FEET NO. OF SAMPLES: 1						
ARKS	REMA		DID	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	GRAPHIC COLUMN		ION	DESCRIPTIC			DEPTH(FT.)	
						SP	1111111	page 2) (SP). No PHC	(continued from particular (stand) (st	.0 ft to 13. or.	- 12.0 - 12.0 - odor	13	
						SP	1111	d (SP); fine to /2" in diameter. No	to 13.5 ft Brown sand (sand, gravel up to 1/2 dor.	3.0 ft to 13 barse sand HC odor.	13. coa	10	
												14 15 16	
						SP		/2" in diameter. No	sand, gravel up to 1/2 for.	parse sand HC odor.		14 15 16 17	

BO	RING	NO.:	C2 PROJECT NO.: 0387 PROJECT	NAME: 21	00 Franklin Ave, Oakla	nd, CA				
BO	RING	LOCA	TION: At East end of former UST ELEVATIO	N AND DAT	UM: None					
DRILLING AGENCY; RGA Environmental, Inc. DRILLER: PHK							DATE & TIME STARTED: DATE & TIME FINISHE 8/11/06 8/11/06			
CO	MPLE	TION	DEPTH: 11.0 FEET BEDROCK DEPTH: No	ne Encounte	red	LOGGED BY: PHK			CHECKED BY:	
FIR	STW	ATER	DEPTH: 10.2 FEET NO. OF SAMPLES: 1 S	bil, 1 Water					DM GIBBS P.G. 7804	
DEPTH(FT.)			DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DIA	REMARKS		
	1		Excavated Area		No Well Constructed			Boreh using stainle auger. First w at 10.2 14:28, Water ft in bo 8/11/0 One g sampl a Tefle rope. I PHC c sampl	Borehole hand augered using a 3.5-inch O.D. stainless steel hand auger. First water encountered at 10.2 ft during drilling, 14:28, 8/11/06. Water measured at 9.1 ft in borehole, 14:39, 8/11/06. One groundwater grab sample collected using a Teflon bailer and rope. No sheen but mild PHC odor on water sample	
	4	111111111	3.0 ft to 4.0 ft Dark gray sandy silt (ML); minor clay, stiff, moist. Strong Petroleum Hydrocarbon (PHC) odor.	ML					One soil sample collected in 2-inch O.D. stainless steel sampling tubes. Borehole terminated at 11.0 ft., 8/11/06. Borehole backfilled with	
	5		4.0 ft to 5.5 ft Gray fine to coarse sand (SW); dense, moist. Strong PHC odor.	sw		NOT at bot excav to dep to ob		NOTE: at botto excavat to depth to obtai ground	Borehole initiated m of mass ion. Add 12.0 feet as reported on log n depth below surface.	
	6	1111	5.5 ft to 7.5 ft Brown sandy silt (ML); minor orange mottling, stiff, moist. No PHC odor. (continued on page 2)	ML						

PAGE 2 OF 2

вс	RING	NO.:	C2 PROJECT NO.: 0387 PROJECT N	AME: 2100	Franklin Ave, Oak	land, CA			
BC	RING	LOCA	TION: At East end of former UST ELEVATION	AND DATUR	W: None				
DF	ILLING	G AGE	NCY: RGA Environmental, Inc. DRILLER: PHK			DATE & TIME STARTED: 8/11/06			DATE & TIME FINISHED: B/11/06
DF	ILLING	EQU	IPMENT: 3.5-inch O.D. Stainless Steel Hand Auger			-		-	
CO	OMPLETION DEPTH: 11.0 FEET BEDROCK DEPTH: None				b	LOGGED BY: PHK			CHECKED BY: DM GIBBS
1.0	-	ATER I	NO. OF SAMPLES: 1 Sol	, I water		-			F.G. 7004
	DEPTH(FT.		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS
1111111111111	7	TITITITI TITI	(continued from page 1) 5.5 ft to 7.5 ft Brown sandy silt (ML); minor orange mottling, stiff, moist. No PHC odor.	ML					
	8		7.5 ft to 10.0 ft Brown sandy silt (ML); trace coarse sand, minor orange mottling, stiff, moist. No PHC odor.	ML	¥I:				
	10	1111111111	10.0 ft to 11.0 ft Brown sand (SM). No PHC odor.	SM	Ā				
111111111	12	111111111							

BORING NO.:	C3 PROJECT NO.: 0387 PROJECT N	AME: 2100	Franklin Ave. Oak	land, CA				
BORING LOC.	ATION: At Southwest End of former UST ELEVATION	AND DATUM	None					
DRILLING AG		_	DAT	E & TIME 8/11	DATE & TIME FINISHED: 8/11/06			
COMPLETION	DEPTH: 14.0 FEET BEDHOCK DEPTH; Non	e Encountered	LOGGED BY:			CHECKED BY:		
FIRST WATER	R DEPTH, 12:3 FEET NO. OF SAMPLES: 1 W	101			PH	ιK	DMG	
DEPTH(FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6'	PID		REMARKS	
	Excavated Area	FILL				Borehole hand augered using a 3.5-inch O.D. stainless steel hand auger. First water encountered at 12.3 ft during drilling, 12:05, 8/11/06. Water measured at 10.8 ft in borehole, 12:10, 8/11/06. One groundwater grab sample collected using a Teflon bailer and rope. No sheen or PHC odor on water sample.		
3	3.0 ft to 3.5 ft Brown silt (ML); minor clay, minor fine sand, orange mottling with black macropores 1 to 5 mm in diameter, medium stiff, moist. No Petroleum Hydrocarbon (PHC) odor.	ML				14.0 ft Boreho neat co	ble terminated at ., 8/11/06. ole grouted with ement and a 4 in.	
4 1 1	3.5 ft to 4.5 ft Gray silt (ML); minor clay, minor fine sand, orange mottling with black macropores 1 to 5 mm in diameter, medium stiff, moist. Mild PHC odor.	ML				8/11/0	surface seal of concrete 8/11/06.	
	4.5 ft to 5.0 ft Brown silt (ML); minor clay, minor fine sand, orange mottling with black macropores 1 to 5 mm in diameter, medium stiff, moist. No PHC odor.	ML				at botto excavat to depth to obtai	m of mass ion. Add 12.0 feet as reported on log n depth below	
	5.0 ft to 5.9 ft Brown silty fine sand (SM). No PHC odor.	SM				ground	surface.	
6	5.9 ft to 6.0 ft Gravel 1/4" diameter (GW). No PHC odor.	GW					ALL BAS	
PAGE 2 OF 3

BORING NO .:	C3 PROJECT NO: 0387 PROJECT N	AME: 2100	Franklin Ave. Oakl	and, CA		
BORING LOC	ATION: At Southwest End of former UST ELEVATION	AND DATUM	None			
DRILLING AG	ENCY: HGA Environmental, Inc. DRILLER: PHK			DAT	E& TIME STARTED: 8/11/06	DATE & TIME FINISHED: 8/11/06
DRILLING EQ	UIPMENT: 3.5-Inch O.D. Stainless Steel Hand Auger					
COMPLETION	I DEPTH: 14.0 FEET BEDROCK DEPTH: Nork	Encountered			LOGGED BY:	CHECKED BY: DMG
FIRST WATE	R DEPTH: 12.3 FEET NO. OF SAMPLES: 0		-		FBA	
DEPTH(FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION	BLOW COUNT PER 6"	Q	REMARKS
7	6.0 ft to 8.0 ft Brown silty clay(CL); fine to coarse sand, gravel up to one-inch in diameter, orange and faint gray mottling, gray mottling ends at 7'8", medium stiff, moist. No PHC odor.	CL				
9	8.0 ft to 11.0 ft Brown silty sand (SM); fine sand, minor clay, orange mottling, dense. No PHC odor.	SM	•			
11	11.0 ft to 12.0 ft Brown silty sand (SM); fine sand, minor clay, light gray mottling, dense. No PHC odor.	SM	-			
- 12 -						

PAGE 3 OF 3

BORING NO.	C3 PROJECT NO.: 0387 PROJECT N	AME: 2100	Franklin Ave, Oak	land, CA		
BORING LOC	ATION: At Southwest End of former UST ELEVATION	AND DATUM	. None			
DRILLING AG	ENCY: RGA Environmental, Inc. DRILLER: PHK			DATI	8 TIME STARTEL	DATE & TIME FINISHED: 8/11/06
DRILLING EG	UPMENT: 3.5-Inch O.D. Slainless Steel Hand Auger	_				
COMPLETION	I DEPTH: 14.0 FEET BEDROCK DEPTH: Non	e Encountered	Ľ		LOGGED BY:	CHECKED BY:
FIRST WATE	R DEPTH: 12.3 FEET NO. OF SAMPLES: 0				PHK	DMG
DEPTH(FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	QIA	REMARKS
13 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	12.0 ft to 14.0 ft Brown fine sand (SP); minor silt, one-inch thick layer of fine to coarse sand at 12.0 ft, orange and light gray mottling, dense, wet. No PHC odor.	SP	Ā			

BC	RING	NO.:	B3 PROJECT NO.: 0387 PROJECT N	AME: 210	00 Franklin Street, Oak	land, C	4		
BC	RING	LOCA	TION: Approx. 5 feet East of former UST ELEVATION	AND DATE	UM: None			AL S	
DF		AGE	NCY: RGA Environmental, Inc. DRILLER: Dave Gibbs/P	aul King		DAT	e & Time 7/20	E STARTED: 1/06	DATE & TIME FINISHED: 7/20/06
CC	MPLE	TION	DEPTH: 3.5 FEET BEDROCK DEPTH: None	e Encounte	red	-	LOGGE	ED BY:	CHECKED BY:
FI	IST W	ATER	DEPTH: None Encountered NO, OF SAMPLES: 1 Soi	1	1	DW	IG	DM GIBBS P.G. 7804	
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION	BLOW COUNT PER 6"	DIA		REMARKS
	1		0 ft to 1.5 ft Brown silty clay (CL); orange mottling. No Petroleum Hydrocarbon (PHC) odor.	CL	No Well Constructed			Boreho using a stainle auger. One so collect diamet stainle tube fr	ble hand augered a 3.5-inch O.D. ss steel hand bil sample ed in a 2-inch ter 6-inch long ss steel sampling om the bottom of
	2	1111	1.5 ft to 2.0 ft Shiny black sand (SP). Mild PHC odor.	SP		the bo	rehole. ble terminated at		
	3		2.0 ft to 3.0 ft Gray sand (SP). Strong PHC odor.	SP				3.0 ft. Sampl to 3.5 Boreho neat co 7/20/0	e collected at 3.0 ft. ble backfilled with ement grout on 6.
	4	11111111111						NOTE: at botto Add 12 reported depth b	Borehole initiated m of mass excavation. 0 feet to depth as d on log, to obtain elow ground surface.
	5	11111111111							

BC	RING	NO.:	B4 PROJECT NO.: 0387 PROJECT N	AME: 210	00 Franklin Street, Oak	land, C	4		
вс	RING	LOCA	TION: Approx. 5 leet East of former UST ELEVATION	AND DATU	JM: None				
DF		AGE	NCY: RGA Environmental, Inc. DRILLER: Dave Gibbs/Pr	aul King		DAT	e & Time 7/20	STARTED:	DATE & TIME FINISHED: 7/20/06
cc	MPLE	TION	DEPTH: 3.5 FEET BEDROCK DEPTH: None	Encounter	red		LOGGE	D BY:	CHECKED BY:
FI	RST W	ATER	DEPTH: None Encountered NO. OF SAMPLES: 1 Soi			DMG			P.G. 7804
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS
TELEVITE DE LE CONTRA DE LE CON	1		0 ft to 1.5 ft Brown silty clay (CL); orange mottling. No Petroleum Hydrocarbon (PHC) odor.	CL	No Well Constructed			Boreho using a stainle auger. One so collect diamet stainle tube fr	ble hand augered a 3.5-inch O.D. ss steel hand bil sample ed in a 2-inch ter 6-inch long ss steel sampling om the bottom of
	2		1.5 ft to 2.0 ft Shiny black sand (SP). Mild PHC odor.	SP				the bo	rehole. ble terminated at
	3		2.0 to 3.0 ft Shiny black sand (SP). Strong PHC odor.	SP				3.0 ft. Sampl to 3.5 Boreho neat o 7/20/0	e collected at 3.0 ft. ble backfilled with ement grout on 6.
	4							NOTE: at botton Add 12. reported depth bo	Borehole initiated m of mass excavation. 0 feet to depth as I on log, to obtain elow ground surface.
THEFT	5	TTTTTTTTTT							
F	6	-	-						

BORING NO	2: B5 PROJECT NO.: 0387 PROJECT N	AME: 210	00 Franklin Street, Oak	land, C/	4		
BORING LC	CATION: Approx. 10 feet East of former UST ELEVATION	AND DATU	JM: None			51.	
	GENCY: RGA Environmental, Inc. DRILLER: Dave Gibbs/P	aul King		DAT	E & TIME 7/20	E STARTED: V06	DATE & TIME FINISHED: 7/20/06
COMPLETI	IN DEPTH: 3.5 FEET BEDROCK DEPTH: None	Encounter	red	LOGGED BY:			CHECKED BY: DM GIBBS
FIRST WAT	ER DEPTH: None Encountered NO. OF SAMPLES: 1 Soi	NO. OF SAMPLES: 1 Soil				AG -	P.G. 7804
рертн(гт.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS
3	0 to 3.0 ft Brown silty clay (CL) w/ fine sand; moist. No Petroleum Hydrocarbon (PHC) odor.	CL	No Well Constructed			Boreho using a stainle auger. One so collect diamet stainle tube fr the bor Boreho 3.0 ft. Sampl to 3.5 ft Boreho neat or 7/20/00	ole hand augered a 3.5-inch O.D. ss steel hand oll sample ed in a 2-inch ter 6-inch long ss steel sampling om the bottom of rehole. ole terminated at e collected at 3.0 it. ole backfilled with ement grout on 6.
4 5 6						NOTE: at botton Add 12.0 reported depth be	Borehole initiated n of mass excavation.) feet to depth as on log, to obtain low ground surface.

BC	RING	NO.:	B6 PROJECT NO.: 0387 PROJECT	NAME: 21	00 Franklin Street, Oak	land, C	A		- ALLAN	
BC	RING	LOCA	TION: Adjacent to former UST ELEVATION	AND DAT	UM: None					
DF	ILLING	G AGE	NCY: RGA Environmental, Inc. DRILLER: Dave Gibbs/	aul King		DAT	E & TIME	E STARTED:	DATE & TIME FINISHED:	
DF	ILLING	G EQU	IPMENT: 3.5 inch O.D. Stainless Steel Hand Auger				8/11/06		8/11/06	
cc	MPLE	TION	DEPTH: 4.0 FEET BEDROCK DEPTH: Nor	e Encounte	red		LOGGED BY:		CHECKED BY:	
FIE	STW	ATER	DEPTH: None Encountered NO. OF SAMPLES: 1 Sc	NO. OF SAMPLES: 1 Soil				AG	P.G. 7804	
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6	DID		REMARKS	
	1	TELETER	0 ft to 1.5 ft Brown silty clay (CL); orange mottling, moist. No Petroleum Hydrocarbon (PHC) odor.	CL	No Well Constructed			Boreho using a stainle auger. One so collect diamet stainle tube fr	ole hand augered a 3.5-inch O.D. ss steel hand bil sample ed in a 2-inch ter 6-inch long ss steel sampling om the bottom of	
	2		1.5 ft to 3.5 ft Brown sand (SP); fine grained sand, orange mottling, moist. No PHC odor.	SP				tube norm the bottom of the borehole. Borehole terminated at 4.0 ft. Sample collected at 4.0 to 4.5 ft. Borehole backfilled with neat cement grout on 7/20/06.		
	4	111111	3.5 ft to 4.0 ft Brown and Gray silty sand (SM); fine grained sand, orange mottling with black grains in mottling. No PHC odor.	SM						
F		-	Strong PHC odor.	SM						
	5							NOTE: 1 ft. abc excavat to depth to obtain ground	Borehole initiated ove bottom of mass ion. Add 13.0 feet as reported on log, n depth below surface.	

BC	RING	NO.: I	B7 PROJECT NO.: 0387 PROJECT NA	AME: 210	00 Franklin Street, Oak	land, C/	4		
BC	RING	LOCAT	TION: Onsite, North of former UST ELEVATION	AND DATE	JM: None				
DF			NCY: RGA Environmental, Inc. DRILLER: Paul			DAT	E & TIM 6/5	E STARTED:	DATE & TIME FINISHED: 6/5/06
cc	MPLE	TION E	DEPTH: 5.2 FEET BEDROCK DEPTH: None	Encounter	red		LOGG	ED BY:	CHECKED BY:
FI	RST W	ATERI	DEPTH: 5.2 FEET NO. OF SAMPLES: 1 Wat	er			Pł	нк	P.G. 7804
	DEPTH(FT.)		DESCRIPTION	GRAPHIC	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DId		REMARKS
	1	111111111	0.0 to 1.2 ft Brown clay (CL); fine grained sand, orange and minor black mottling, very stiff, moist. No Petroleum Hydrocarbon (PHC) odor.	CL	No Well Constructed			Boreha using 3 stainle auger. First w at 5.2	ble hand augered 3.5-inch O.D. ss steel hand rater encountered ft during drilling,
		11111	1.2 to 1.9 ft Brown silt (ML); fine grained sand, abundant orange mottling, medium stiff, moist. No PHC odor.	ML				Water in bore 6/5/06	measured at 4.2 ft shole, 9:58 AM, , approx. 5 min.
	2	11111	1.9 to 2.7 ft Brown fine grained silty sand (SM); abundant orange mottling, medium dense, moist. No PHC odor.	SM				One g sampl Teflon No sho	ntered. roundwater grab e collected using a bailer and rope. een or PHC odor
	3		2.7 to 4.0 ft Brown sandy silt (ML); abundant orange mottling, stiff, moist. No PHC odor.	ML				on wa Boreh 5.2 ft., Boreh neat c 6/5/06	tter sample. ole terminated at 8:53, 6/5/06. ole backfilled with ement grout,
	4	1111111111	4.0 to 5.2 ft Brown silt (ML); minor fine sand, minor orange mottling, stiff, moist. No PHC odor.	ML	¥. ▽				
	6	11111111						NOTE: at bottom Add 12.0 reported depth be	Borehole initiated of mass excavation.) feet to depth as on log, to obtain ow ground surface.

BOF	RING	NO.:	B8 PROJECT NO.: 0387 PROJECT N	AME: 210	00 Franklin Street, Oak	land, C/	4			
BOF	RING	LOCA	TION: Onsite, Northeast of former UST ELEVATION	AND DAT	JM: None					
DRI		G AGE	NCY: RGA Environmental, Inc. DRILLER: Nick IPMENT: 3.5 inch O.D. Stainless Steel hand auger.			DAT	E & TIME 6/5 B:	E STARTED: /06 55	DATE & TIME FINISHED: 6/5/06	
COM	IPLE	TION	DEPTH: 5.9 FEET BEDROCK DEPTH: Non	e Encounter	red		LOGGE	ED BY:	CHECKED BY: OM GIBBS	
FIR	ST W.	ATER	DEPTH: 5.9 FEET NO. OF SAMPLES: 1 Wa	ter					P.G. 7804	
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DId		REMARKS	
	1	TITTTTTTTTTTTTT	0.0 to 2.0 ft Brown silty clay (CL); fine grained sand, abundant orange mottling, stiff, moist. No Petroleum Hydrocarbon (PHC) odor.	CL	No Well Constructed			Boreh using stainle auger. First w at 5.9 9:15 A Water in bore 6/5/06	ble hand augered 3.5-inch O.D. iss steel hand rater encountered ft during drilling, M, 6/5/06. measured at 5.0 ft ehole, 9:56 AM, , approx. 5 min.	
	2		2.0 to 2.3 ft Brown sand (SP); abundant orange	SP				after g encou One g	roundwater first intered. roundwater grab	
	3	TITITITI	2.3 to 3.6 ft Brown silt (ML); fine grained sand, abundant orange mottling, medium stiff, moist. No PHC odor.	ML				Boreh Boreh	e collected using a bailer and rope. een or PHC odor ter sample. ole terminated at 6/5/06. ole backfilled with	
	4	1111	3.6 to 4.1 ft Brown sandy silt (ML); abundant black mottling, medium stiff, moist. No PHC odor.	ML				neat c 6/5/06	ement grout,	
	5		4.1 to 5.9 ft Brown silty sand (SM); medium dense, moist. No PHC odor.	SM	¥			NOTE: at botton Add 12.0 reported depth be	Borehole initiated n of mass excavation.) feet to depth as on log, to obtain low ground surface.	
111	~				∇					

BO	RING	NO.:	B9 PROJECT NO.: 0387 PROJECT N	AME: 210	00 Franklin Street, Oal	dand, Ci	4			
BO	AING	LOCA	FION: Onsile, East of former UST ELEVATION	AND DAT	JM: None					
DR	ILLING	G AGE	NCY: RGA Environmental, Inc. DRILLER: Nick IPMENT: 3.5-Inch O.D. Stalnless Steel Hand Auger		-	DAT	E & TIM 6/5 10	E STARTED: 06 :45	DATE & TIME FINISHED: 6/5/06	
CC FIF	MPLE IST W		DEPTH: 6.3 FEET BEDROCK DEPTH: None DEPTH: 6.3 FEET NO. OF SAMPLES; 1 Wat	Encounter	red	LOGGED BY: NRM			CHECKED BY: DM GIBBS P.G. 7804	
	DEPTH(FT.)		DESCRIPTION	GHAPHIC COLUMN	WELL	BLOW COUNT PER 6"	DID		REMARKS	
	1	THITTILL	0.0 to 1.5 ft Brown silty clay (CL); fine grained sand, abundant orange mottling, minor black mottling, stiff, moist. No Petroleum Hydrocarbon (PHC) odor.	CL	No Well Constructed			Borehu using stainle auger. First w at 6.3 11;55	ole hand augered 3.5-inch O.D. iss steel hand rater encountered ft during drilling, AM, 6/5/06.	
		111	1.5 to1.8 ft Brown sand (SP); Abudant orange mottling, medium dense. No PHC odor	SP				One g sampl	proundwater grab le collected using a	
	2 3 4 5		1.8 to 6.2 ft Brown sandy sllt (ML); moderate abundant orange mottling, minor black mottling, reduced mottling at 5.9 ft, medium stiff, moist. No PHC odor.	ML				No she on wa Boreh 6.3 ft., Boreh neat c 6/5/06 NOTE: at botton Add 12.0 reported depth be	Borehole initiated as on log, to obtain a surface.	
F	6	-	(continued on page 2)							

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BORING NO	B9 PROJECT NO.: 0387 PROJEC	T NAME: 2100	Franklin Street, O	akland, CA			
BORING LO	CATION: Onsite, East of former UST ELEVATION	ON AND DATUM	: None				
DRILLING A	GENCY: RGA Environmental, Inc. DRILLER: Nick QUIPMENT: 3.5-Inch O.D. Stalnless Steel Hand Auger			DAT	E & TIME STARTED: 6/5/06 10:45	DATE & TIME FINISHED: 6/5/06	
COMPLETIC	N DEPTH: 6.3 FEET BEDROCK DEPTH; N	one Encountered			LOGGED BY:	CHECKED BY: DM GIBBS	
FIRST WAT	ER DEPTH: 6.3 FEET NO. OF SAMPLES: 1	Water			INFERR	P.G. 7804	
DEPTH(FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	Old	REMARKS	
	- (continued from page 1)	-	∇				
	6.2 to 6.3 ft Brown sand with gravel (SP);	A	<u></u>		-		
7	medium dense, wet. No PHC odor.	QUUITITITITI					
3							
4							
6							

BC	RING	NO.: B10		PROJECT NO .: 038	37 PROJEC	T NAME: 21	00 Franklin Street, Oal	dand, C	A		
BC	RING	LOCATION:	Onsite,	Southeast of former UST	ELEVAT	ON AND DAT	UM: None				
DF	ILLING	G AGENCY:	RGA En	wironmental, Inc.	DRILLER: Nick			DAT	E & TIM	E STARTED:	DATE & TIME FINISHED:
DR	ILLING	G EQUIPMENT:	3.5 inch	O.D. Stainless Steel Har	nd Auger				12	:33	6/0/06
cc	MPLE	TION DEPTH:	7.3	FEET	BEDROCK DEPTH: N	Ione Encounte	red		LOGG	ED BY:	CHECKED BY: DM GIBBS
FIF	IST W	ATER DEPTH:	7.3	FEET	NO. OF SAMPLES: 1	Water			IN	M	P.G. 7804
	DEPTH(FT.)			DESCRIPTI	ON	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS
1111111111	1	- 0.0 f	to 1.1 ft Indant co st. No Pe	Gray/Brown sand barse sand, orang etroleum Hydroca	dy silt (FILL); ge mottling, stiff, arbon (PHC) odor.	FILL	No Well Constructed			Borehu using stainle auger. First w at 7.3	ole hand augered 3.5 inch O.D. ess steel hand rater encountered ft during drilling.
		- 1.1 t with No F	o 1.6 ft abunda PHC odd	Brown sand with Int coarse sand; pr.	gravel (FILL) loose, moist.	FILL				14:36, One g	6/5/06.
LUTERT	2	1.6 t	o 2.7 ft se sand st. No Pl	Brown sand (FIL I and gravel, orai HC odor.	L); with clay, nge mottling, loose,	FILL				ft usin and ro sheen water	g a Teflon bailer pe, 6/5/06. No or PHC odor on sample.
E		-		_		-				Boreh 7.3 ft.,	ole terminated at 12/16/06.
	3		.7 to 2.8 bundan nedium	3 ft Brown/Gray s t coarse sand, or dense, moist. No	ilty sand (FILL); range mottling, PHC odor.					neat c 6/5/06	ole backfilled with ement grout,
		2.81	ft to 4.0	ft No Recovery (FILL)	FILL				NOTE: at botto	Borehole initiated n of mass excavation.
	4	4.0 med	to 5.6 ft lium stiff	Sandy silt (ML); f, moist. No PHC	orange mottling, odor.	- ML				Add 12. reported depth be	0 feet to depth as on log, to obtain elow ground surface.
LITT	6	- 5.6 mec	to 6.5 ft lium stif	Sandy silt (ML); f, moist. No PHC (continued on p	black mottling, odor. age 2)	ML					

PAGE 2 OF 2

BO	RING	NO.:	B10 PROJECT NO.: 0387 PROJECT NA	ME: 2100	Franklin Street, Or	akland, CA	1		
BC	RING	LOCA	TION: Onsite, Southeast of former UST ELEVATION	AND DATUR	I: None		-		
DR	ILLING	AGE	NCY: RGA Environmental, Inc. DRILLER: Nick			DAT	E & TIME ST. 6/5/06	ARTED:	DATE & TIME FINISHED: 6/5/06
DH	ILLING	EQU	JPMENT: 3.5 inch O.D. Stainless Steel Hand Auger			-	12:33		
FIF	IST W	ATER	DEPTH: 7.3 FEET BEDROCK DEPTH: None DEPTH: 7.3 FEET NO. OF SAMPLES: 1 Wate	Encountered		-	NRM	Y:	DM GIBBS P.G. 7804
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DIA		REMARKS
		1111	(continued from page 1)	ML					
	7	111111111	6.5 to 7.3 ft Clay (CL); abundant orange and black mottling, stiff, moist. No PHC odor.	CL	∇				
	8	111111111			-				
111111111	9	11111111							
11111111	10	11111111							
1111111111	11								
	12	1111							

BC	RING	NO.:	B11 PROJECT NO.: 0387 PROJECT N/	AME: 210	0 Franklin Street, Oak	land, C	4	-	
BC	RING	LOCAT	TION: Onsite, South of former UST ELEVATION	AND DATU	JM: None				
DF	ILLING	G AGE	NCY: RGA Environmental, Inc. DRILLER: Nick			DAT	E & TIMI 6/5	E STARTED:	DATE & TIME FINISHED: 6/5/06
DF	ILLING	G EQUI	PMENT: 3.5 inch O.D. Stainless Steel Hand Auger			-	14	:43	
FIF	MPLE		DEPTH: 6.6 FEET BEDROCK DEPTH: None	Encounter	ed		LOGGI	ed by: RM	CHECKED BY: DM GIBBS P.G. 7804
-	-	T			z			1	
	DEPTH(FT		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTIO	BLOW COUNT PER 6"	DID		REMARKS
	1		0.0 to 1.5 ft Brown gravel (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) odor.	FILL	No Well Constructed			Boreho using : stainle auger. First w at 6.6 15:15, One g sample using a rope, 6 PHC o sample Boreho	ble hand augered 3.5 inch O.D. ss steel hand ater encountered ft during drilling, 6/5/06. roundwater grab e collected at 6.6 ft a Teflon bailer and 6/5/06. No sheen or dor on water e.
	3 4 5	111111111111111111111111111111111111111	2.5 to 5.1 ft Light brown silty sand (SM); orange mottling, stiff, moist. No PHC odor.	SM				6.6 ft., Boreha neat c 6/5/06 NOTE: at bottor Add 12. reported depth be	12/16/06. ble backfilled with ement grout, Borehole initiated n of mass excavation. D feet to depth as on log, to obtain low ground surface.
	6		5.1 to 6.0 ft Light brown silty sand (SM); black mottling, stiff, moist. No PHC odor.	SM					
1	0		(continued on page 2)						

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BORING NO .:	B11 PROJECT NO.: 0387 PROJECT	NAME: 2100	Franklin Street, O	akland, CA	1	1 State
BORING LOC	TION: Onsite, South of former UST ELEVATIO	N AND DATUM	: None			
DRILLING AG	NCY: RGA Environmental, Inc. DRILLER: Nick JIPMENT: 3.5 inch O.D. Stainless Steet Hand Auger	-		DATE	E & TIME STARTED: 6/5/06 14:43	DATE & TIME FINISHED: 6/5/06
COMPLETION	DEPTH: 6.6 FEET BEDROCK DEPTH: No	ne Encountered			LOGGED BY:	CHECKED BY: DM GIBBS
FIRST WATER	DEPTH: 6.6 FEET NO. OF SAMPLES: 1 W	later				P.G. 7804
DEPTH(FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	OIA	REMARKS
	(continued from page 1) 6.0 to 6.5 ft Fine gravel (GP) 1/4-inch in diameter. No PHC odor.	GP	∇			

во	RING	NO.:	B12 PROJECT NO.: 0387 PROJECT	NAME: 21	00 Franklin Street, Oal	land, C.	4		
BO	RING	LOCAT	TION: Onsite, South of former UST ELEVATI	ON AND DAT	UM: None				
DR	ILLING	G AGEI	NCY: RGA Environmental, Inc. DRILLER: Paul/Nic	k		DAT	E & TIM 6/5	E STARTED:	DATE & TIME FINISHED: 6/5/06
DR	ILLING	S EQUI	IPMENT: 3.5 inch O.D. Stainless Steel Hand Auger				13	:11	
CC FIF	MPLE	TION I	DEPTH: 6.2 FEET BEDROCK DEPTH: N	one Encounte Nater	red	-	LOGG	ed By: R M	CHECKED BY: DM GIBBS P.G. 7804
-					z			1	
	DEPTH(FT		DESCRIPTION	GRAPHIC	WELL CONSTRUCTIO	BLOW COUNT PER 6"	DID		REMARKS
111111111	1	11111111	0.0 to 1.1 ft Brown silty sand (SM); abundant coarse gravel, orange and black mottling, medium dense. No Petroleum Hydrocarbon (PHC) odor.		No Well Constructed			Boreho using s stainle auger. First w at 6.2	ble hand augered 3.5 inch O.D. ss steel hand ater encountered ft during drilling,
	2	111111111111111111111111111111	1.1 to 4.2 ft Brown sandy silt (ML); coarse sand, gravel, orange mottling, stiff, moist. No PHC odor.	ML				13:54, One g sampli ft usin and ro sheen water Boreh neat c 6/5/06	6/5/06. roundwater grab e collected at 6.2 g a Teflon bailer pe, 6/5/06. No or PHC odor on sample. ble terminated at 12/16/06. ble backfilled with ement grout,
	4	THITT	 3.9 to 4.2 ft Brown sandy silt (ML); coarse sand, gravel, orange mottling, very stiff, moist. No PHC odor. 4.2 to 4.8 ft Brown silt (ML); coarse sand, 					at botton Add 12. reported depth be	n of mass excavation. 0 feet to depth as on log, to obtain low ground surface.
111			orange and black mottling, very stiff, moist. No PHC odor.		-				
11111111	5	1111111	4.8 to 6.2 ft Tan silt (ML); coarse sand, orange and black mottling, very stiff, moist. No PHC odor.	ML					
F	6	-	(continued on page 2)	-					

PAGE 2 OF 2

BORING NO.	: B12	PROJECT NO.: 0387 PROJECT NAME: 2100 Franklin Street, Oakland, CA									
BORING LOC	CATION:	Onsite, S	South of former UST	ELE	ATION AND DA	FUM: None					
DRILLING AC	SENCY:	RGA En	vironmental, Inc.	DRILLER: Nic	k		DAT	E & TIME	STARTED:	DATE & TIME FINISHED:	
DRILLING EQ	UIPMENT:	3.5 Inch	O.D. Stainless Steel H	and Auger				6/5A 14:4	13	6/5/06	
COMPLETIO	N DEPTH:	6.2	FEET	BEDROCK DEPTH	I: None Encoun	erød		LOGGE	D BY:	CHECKED BY: DM GIBBS	
FIRST WATE	R DEPTH:	6.2	FEET	NO. OF SAMPLES	t 1 Water			NHU	M	P.G. 7804	
DEPTH(FT.)			DESCRIPT	TION	GRAPHIC COLUMN	WELL CONSTRUCTION	BLOW COUNT PER 6"	PID		REMARKS	
	-	(continued from	page 2)	-	∇					

вс	RING	NO.:	B13 PROJECT NO.: 0387 PROJECT	NAME: 21	00 Franklin Street, Oal	dand, C	4	-	
вс	RING	LOCA	TION: On Franklin Street, Southwest of UST ELEVATIO	NAND DAT	UM: None				
DF	ILLING	G AGE	NCY: Vironex, Inc. DRILLER: Bryan/Jef			DAT	E & TIM	E STARTED:	DATE & TIME FINISHED:
DF	ILLING	EQL	JIPMENT: Geoprobe 6600				1:00	D PM	1 1/0/06
CC FIE	MPLE		DEPTH: 41.0 FEET BEDROCK DEPTH: Nor	e Encounte	red	-	LOGG	ED BY: FO	CHECKED BY: DM GIBBS P.G. 7804
-	0	1		10		+ -	-	1	
	DEPTH(FT.		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS
F		-	0.0 to 0.2 ft Asphalt		No Well				
	5	11111111111111	0.2 to 8.5 ft Light brown sandy clay (CL); stiff, slightly moist. No Petroleum Hydrocarbon (PHC) odor.	CL	Constructed		0 0 0	Boreho using a Geopro Sampler 5-foot ii was lined in, O.D. o First wat ft durir Borehole	le continuously cored 5-foot long 2-inch O.D. be Macroprobe Barrel r. Samples collected in ntervals. The sampler with 4.8-foot long 1 3/4 cellulose acetate tubes. er encountered at 27.0 ng drilling, 11/8/2006. e terminated at 41.0 ft.
	10	 8.5 to 11.5 ft Brown sand (SW); loose, moist. No PHC odor. 11.5 to 18.0 ft Gray sandy clay (CL); orange 	sw			0	Tempora PVC cas and sam Boreho cement a of co	ry 1-in. diameter slotted ing placed in borehola, ple B13-41W collected. ole grouted with neat and a 4-in. surface seal oncrete. 11/8/2006.	
	15		mottling, medium stiff, moist. No PHC odor.	CL			0	Borehole dista boreh Hydropuu back t Hydropu foot dept sa	B13a drilled at a horiz. nce of 1.5 feet from ole 13 by pushing a nch to 28 ft. and pulling he rod to expose the nch screen from 24-28 h for collection of water mple B13a-28W.
	20	11111111	18.0 to 22.5 ft Gray sandy clay (CL); green mottling, medium stiff, moist. No PHC odor.	CL			0	Water S collected using ne with a sta No PHO detect	ample B13a-28W was d from the Hydropunch aw polyethylene tubing ainless steel foot valve. C odor or sheen were ted in water samples
	25	111111111	22.5 to 27.0 ft Gray sandy clay (CL); orange mottling, medium stiff, moist. No PHC odor.	CL			0	B13-	41W or B13a-28W.
I I I I I I	30	TITT	27.0 to 31.0 ft Brown sand (SW); loose, wet. No PHC odor.	sw			0		

PAGE 2 OF 2

BC	RING	NO.: B13	-	PROJECT NO .:	0387	PROJECT N	IAME: 210	0 Franklin Street, Oak	dand, C	A		20 C 10 V
BC	RING	LOCATION:	On Fran	klin Street, Southwes	t of UST	ELEVATION	AND DATU	IM: None				
DF	ILLING	AGENCY:	Vironex,	Inc.	DRILLEF	R: Bryan/Jeff			DAT	E & TIME	STARTED:	DATE & TIME FINISHED:
DF	ILLING	EQUIPMEN	r: Geoprob	be 6600						11/8/	PM	11/8/06
co	MPLE	TION DEPTH	41.0	FEET	BEDROG	CK DEPTH: None	e Encounter	ed		LOGGE	D BY:	CHECKED BY:
FI	IST W	ATER DEPTH	27.0	FEET	NO. OF	SAMPLES: 2 Wa	iter			EFC	2	P.G. 7804
	DEPTH(FT.)			DESCRIP	TION		GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DIA		REMARKS
F		-				-		No Well				
F		- 31.0	to 32.0 f se, wet. N	t Brown clayey to PHC odor.	sand (SC); i	medium _ 7	SC	Constructed		0		
F		- 32.0	to 35.0 f	t Brown sandy	clay (CL); st	iff, moist					(
F			-HC 000r			Ξ	UL			0		
1111	35	- 35.0 satu	to 38.0 f rated. No	t Brown clayey PHC odor.	/ sand (SC);		sc			0		
	40	- 38.0 - and (- No P	to 40.0 ft gravel (S) HC odor.	Brown well gr W-SC); orange	aded sand w mottling, de	ith clay nse, stiff	sw-sc			0 0		
F		40.0	to 41.0 ft	No core colle	cted.					_	6	
F		-		* ev.u								
E		3				-						
LILI	45					Ē						
E		-				=		1.0		0		
E		Ξ				-						
E		-				-						
F	50	-				-					1 1 1	
E		-				-]	1.0				
F		-										
F		Ξ				-						
E	55	-						2				
F		-				=						
E		E				-	1					
F		-				-						
F	60	-										

BOF	RING	:.00	B14 PROJECT NO.: 0387 PROJECT	NAME: 21	00 Franklin Ave, Oakla	nd, GA				
BOF	RING	OCA	TION: Franklin Street ELEVATION	N AND DAT	UM: None					
DRI	LLING	AGE	NCY: Vironex, Inc. DRILLER: Justin/Bry JIPMENT: Geoprobe 6600	an		DAT	E & TIME 1/30	STARTED:	DATE & TIME FINISHED: 1/31/07	
CO	APLE	TION	DEPTH: 27.0 FEET BEDROCK DEPTH: Nor	e Encounte	red	-	LOGGE	D BY:	CHECKED BY: DM GIBBS	
FIR	STW	ATEH	DEPTH: 24.1 FEET NO. OF SAMPLES: 2 W	aler	-		_	-	P.G. 7804	
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DId		REMARKS	
		11111	0.0 to 3.1 ft Concrete mix (FILL). No Petroleum Hydrocarbon (PHC) odor.	FILL	No Well Constructed			Borehole continuosly cor- using dual tube system consisting of a 5-foot lor 3 5-inch O D, outer casir		
	5		3.1 to 5.1 ft Brown silty clay (CL) with black mottling; medium soft. No PHC odor.	CL			0	and a samp logge	a 2.5-inch I.D. inner ble sleeve. Samples id in 5-foot intervals.	
	9	TTT	5.1 to 7.0 ft Gray-brown silty clay (CL) with black mottling; medium soft. No PHC odor.	CL			U	Samp with O.D	ling sleeve was lined a 5-foot long 2-inch , cellulose acetate	
10		1111	7.0 to 10.5 ft Brown silt (ML) with yellow and green mottling; soft, loose. No PHC odor.	ML				Boreho	ole terminated at 27.0 feet, 01/30/07.	
	10	11111	10.5 to 13.2 ft Brown sand (SW) with red mottling; medium stiff, moist. No PHC odor.	sw			0	Temp slotted in bo B14-2 grout	orary 1-in. diameter d PVC casing placed rehole, and sample 7 collected. Borehole ed with neat cement	
	15	IIII	13.2 to 15.8 ft Gray brown clay (CL); medium soft, medium moist. No PHC odor.	CL			0	and a l	6-inch surface seal of oncrete, 1/31/07.	
	20		15.8 to 20.9 ft Light brown clay (CL); medium stiff, dry. No PHC odor.	CL			0	horiz. fror pushi 56 ft. Hydri 52 collect	a distance of 1.5 feet m borehole B14 by ing a Hydropunch to and pulling back the od to expose the opunch screen from -56 foot depth for tion of water sample	
		E	20.9 to 21.5 ft Gray gravel (GP); loose, dry.	GP				Mate	B14a-56W	
		1111	21.5 to 24.1 ft Light brown silt (ML); stiff, moist. No PHC odor.	ML	∇			Wate Was Hyd	collected from the ropunch using new	
111	25		24.1 to 26.3 ft Sandy silty gravel (GM); very loose, very moist. No PHC odor.	GM	1		0	stain	less steel foot valve.	
-		-	26.3 to 27.0 ft Brown clay (CL); very stiff,	CL						
	30	11111						No l wer sar	PHC odor or sheen e detected in water nples B14-27W or B14a-56W	

BC	RING	NO.:	B15 PROJECT NO.: 0387 PROJECT N	AME: 210	0 Franklin Ave, Oakla	nd, CA			
BC	RING	LOCA	ATION: Franklin Street ELEVATION	AND DATU	JM: None				.1.0
DF	ILLING	G AGI	ENCY: Vironex, Inc. DRILLER: Tim			DAT	E & TIME 1/01/	STARTED:	DATE & TIME FINISHED: 2/1/07
cc	MPLE	TION	I DEPTH: 30.0 FEET BEDROCK DEPTH: None	e Encounter	ed		LOGGE	D BY:	CHECKED BY: DM GIBBS
FIF	ST W	ATEP	R DEPTH: 23.0 FEET NO. OF SAMPLES: 2 Wa	ter					P.G. 7804
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID		REMARKS
11111111		TITLET.	0.0 to 4.3 ft Fill. No Petroleum Hydrocarbon (PHC) odor.	FILL	No Well Constructed			Boreho Using consis 3.5-inc and a samp	le continuosly cored dual tube system ting of a 5-toot long th O.D. outer casing (2.5-inch I.D. inner le sleeve, Samples
1111111	5	1111111	4.3 ft to 10.8 ft Beige-brown sandy silt (SM); loose, slightly moist. No PHC odor.	SM			0	logged Sampli with a O.D.	d in 5-foot intervals. ing sleeve was lined a 5-foot long 2-inch cellulose acetate tubes.
	10	11111					0	Boreho Temp	le terminated at 30.0 ft, 01/31/07. orary 1-in. diameter
E		111	10.8 to 12.5 ft Brown-gray clay (CL); very	CL				in bor B1:	rehole, and sample 5-30W collected.
E		111	12.5 ft to 13.3 ft Brown gray silty clay (CL);	CL				Boreho	ble grouted with neat nent and a 6-inch
	15	I LL L	13.3 ft to 17.1 ft Brown gray clay (CL) with black mottling; very stiff, dry. No PHC odor	CL			0	Boret	2/1/07.
		1111	17.1 ft to 18.4 ft Dark brown clay (CL) with yellow mottling; medium stiff, dry. No PHC odor. Z	CL				horiz. fror pushii	distance of 1.5 feet m borehole 15 by ng a Hydropunch to
1111	20	TITL	18.4 ft to 21.2 ft Dark brown clay (CL) with yellow mottling; medium stiff, dry. No PHC odor.				0	For Hydro 56- collect	d to expose the opunch screen from 60 foot depth for tion of water sample
1111		1111	21.2 ft to 21.6 ft Beige-brown clay (CL); very stiff, dry. No PHC odor. 21.6 ft to 22.5 ft Yellow-brown clayey silt (ML); modulum active maint No RHC odor	ML ML	∇			Water	B15a-60W. Sample B15a-60W
	25	1 TH	22.5 ft to 23.1 ft Gray brown sitty clay (ML); medium stiff, moist. No PHC odor.	GW	-		0	was Hydr polyet	collected from the ropunch using new hylene tubing with a
E	20		mottiling; moist. No PHC odor.	CL			U	staink No F	ess steel foot valve. PHC odor or sheen
1111		1111	25.11 ft to 26.3 ft Gray white sandy clay (CL); moist. No PHC odor. 26.3 ft to 27.3 ft Beige-gray clay (CL); very stiff. dry. No PHC odor. 27.3 ft to 28.4 ft Brown silty clay (CL): losse dry. No PHC odor.	CL				were	e detected in water pples B15-30W or B15a-60W.
E	30	1-1-1	28.4 ft to 29.0 ft Brown clay (CL); stiff, dry. No PHC odor.	SM			0		

во	RING	NO.:	B16 PROJECT NO.: 0387 PROJECT I	NAME: 21	00 Franklin Street, Oak	land, C/	4				
80	RING	LOCA	TION: West side of Franklin Street, East-Northeast of UST ELEVATION	NAND DAT	UM: None						
DR	ILLING	AGE	NCY: Vironex, Inc. DRILLER: Tim/Emer	30N		DAT	E & TIME	STARTED:	DATE & TIME FINISHED:		
DR	ILLING	EQU	JIPMENT: Geoprobe 6600				12:20	PM			
co	MPLE	TION	DEPTH: 25.0 FEET BEDROCK DEPTH: Non	e Encounte	red		LOGGE	D BY: O	CHECKED BY: DM GIBBS		
FIH	ST W	ATEH	IDEPTH: 13.5 FEET NO. OF SAMPLES: 1 W	ater					P.0. 7804		
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DIA		REMARKS		
11.11.1.1.1.1		1111111	0.0 to 0.2 ft Asphalt 0.2 to 5.0 ft Brown sandy clay (CL); black mottling, medium stiff, slightly moist. No Petroleum Hydrocarbon (PHC) odor.	CL	No Well Constructed		0	Bore cored 2-inc Ma Sa	hole continuously using a 5-foot long h O.D. Geoprobe croprobe Barrel mpler. Samples llected in 5-foot		
11111	5	11111	5.0 to 8.0 ft Brown clay (CL); black mottling, stiff, slightly moist. No PHC odor.	CL			0	inter was lon cellul	vals. The sampler lined with 4.8-foot g 1 3/4 in. O.D. ose acetate tubes.		
11111	10	11111	8.0 to 11.0 ft Brown sand (SW); moist. No PHC odor.	sw			0	First v at 13.	water encountered .5 ft during drilling, 11/8/2006.		
		11111	11.0 to 11.5 ft Gray clay (CL); black mottling, moist. No PHC odor. 11.5 to 12.0 ft Brown sand (SW); loose, wet. No PHC odor.	CL SW CL SW	Ţ		0	Borehole 25.0 ft. To diameter casing borehole B16-25 Borehole	ole terminated at . Temporary 1-in. ater slotted PVC sing placed in		
	15		mottling, medium stiff, moist. No PHC odor. 13.5 to 14.0 ft Brown sand (SW); loose, wet. No PHC odor.	CL			0		hole, and sample 3-25W collected. hole grouted with		
			14.0 to 16.0 ft Brown sandy clay (CL); orange mottling, moist. No PHC odor. 16.0 to 21.5 ft Brown sandy clay (CL); orange	CL			0	surfac	e seal of concrete, 11/8/2006.		
	20	1111					0	No P were sa	HC odor or sheen detected on water mple B16-25W.		
			21.5 to 23.0 ft Brown silty sand (SM); soft,	SM			0				
THILL	25	LILLII.	23.0 to 25.0 ft Gray sandy clay (CL); moist, stiff. No PHC odor.	CL			0				
	30	11111									

BC	RING	NO.:	B17 PROJECT NO.: 0387 PROJECT	AME: 210	00 Franklin Street, Oak	land, C.	A			
BC	DRING	LOCA	TION: West side of Franklin Street, Southwest of UST ELEVATION	AND DAT	UM: None					
DF	RILLING	AGE	NCY: Vironex, Inc. DRILLER: Tim/Emer	son		DAT	E & TIME	STARTED:	DATE & TIME FINISHED;	
DF	RILLING	EQU	JIPMENT: Geoprobe 6600				9:30	4/06 AM	11/14/06 11:30 AM	
co	OMPLE	TION	DEPTH: 34.0 FEET BEDROCK DEPTH: Nor	e Encounte	red		LOGGE	D BY:	CHECKED BY:	
FI	RSTW	ATER	DEPTH: 28.0 FEET NO. OF SAMPLES: 2 W.	aler	_		EF	0	P.G. 7804	
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID		REMARKS	
F		-	0.0 to 0.2 ft Asphalt		No Well					
	5		0.2 to 8.0 ft Brown sandy clay (CL); medium stiff, moist. No Petroleum Hydrocarbon (PHC) odor.	CL	Constructed		0 0 0	Bore cored 2-ind Ma Sample in 5- sam 4.8-foo cellu First w	chole continuously using a 5-foot long ch O.D. Geoprobe acroprobe Barrel er. Samples collected foot intervals. The pler was lined with ot long 1 3/4 in. O.D. lose acetate tubes.	
11111	10	11111	8.0 to 11.0 ft Brown sand (SW); loose, moist. No PHC odor.	sw			0	28.1 Temp slotted	orary 1-in. diameter PVC casing placed	
		11111	11.0 to 17.0 ft Gray sandy clay (CL); orange mottling, moist. No PHC odor.				0	in bo B1 Boreho ft, 11: Boreho	rehole, and sample 7-34W collected. le terminated at 34.0 30 AM, 11/14/2006. ble grouted with neat	
11111	15	11111		CL			0	cemer s Boreb	it and a 4-in. surface eal of concrete, 11/14/2006.	
1111		1111	17.0 to 21.5 ft Green-gray sandy clay (CL); orange mottling, stiff, moist. No PHC odor.				0	horiz. from pushin	distance of 1.5 feet borehole B17 by a Hydropunch to 41	
	20	1111		CL			0	ft. and to exp scree dept	pulling back the rod ose the Hydropunch en from 37-41 foot hs for collection of	
E		1111	21.5 to 28.0 ft Brown silty sand (SM); soft, saturated. No PHC odor.				0	water Water	sample B17a-41W. Sample B17a-41W	
	25	1111		SM	5		0	was Hydr polyet stainl	collected from the ropunch using new hylene tubing with a ess steel foot valve.	
111		111	29.0 to 29.5 th Groop gray wall graded aged with				0	No F were	PHC odor or sheen e detected in water	
E		111	clay and gravel (SW-SC); wet. No PHC odor.	SW-SC	¥		0	san	ples B17-34W or B17a-41W.	
E	30	111	stiff, moist. No PHC odor.	CL			0			

PAGE 2 OF 2

BORING NO.: B17 PROJECT NO.: 0387 PROJECT NAME: 2100 Franklin Street,							land, C	4			
BORING LOC	ATION:	West side	e of Franklin Street, Southwes	t of UST ELEVATION	AND DAT	JM: None		-			
DRILLING AG	ENCY:	Vironex,	inc.	DRILLER: Tim/Emersi	n		DAT	E & TIME	STARTED:	DATE & TIME FINISHED:	
DRILLING EQ	UIPMENT:	Geoprobe	e 6600				1	11/14 9:30	AM	11/14/06 11:30 AM	
	N DEPTH:	34.0	FEET	BEDROCK DEPTH: None	Encounter	ed		LOGGE	D BY:	CHECKED BY: DM GIBBS	
FIRST WATER	H DEP1H:	28.0	FEEI	NO. OF SAMPLES: 2 Wa	ter		-	_		P.G. 7804	
DEPTH(FT.			DESCRIPTION		GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID		REMARKS	
	30.0 to	34.0 ft	No Core Collected.			No Well Constructed					
		_			-			-			

80	RING	NO.:	B18 PROJECT NO.: 0387 PROJECT N	AME: 210	00 Franklin Ave, Oakla	nd, CA			
BC	RING	LOCA	TION: 21st Street ELEVATION	AND DATU	JM: None				
DF		G AGE	NCY: Vironex, Inc. DRILLER: Justin/Brya	In		DAT	E & TIME 1/31	STARTED:	DATE & TIME FINISHED: 2/1/07
cc	MPLE	TION	DEPTH: 25.0 FEET BEDROCK DEPTH: Non	e Encounter	ed		LOGGE	D BY:	CHECKED BY:
FIF	RST W	ATER	DEPTH: 25.0 FEET NO. OF SAMPLES: 2 We	iter	_		FJ	0	P.G. 7804
	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6'	DIA		REMARKS
1111111111111	5	11111111111	0.0 to 7.0 ft Concrete fill (FILL). No Petroleum Hydrocarbon (PHC) odor.	FILL	No Well Constructed		0	Boreho using consis 3.5-ing and a samp logge Sampl with O D	ble continuosly cored g dual tube system sting of a 5-foot long ch O.D. outer casing a 2.5-inch I.D. inner ile sleeve. Samples d in 5-foot intervals. ing sleeve was lined a 5-foot long 2-inch cellulose acetate
F		-	7.0 to 8.1 ft Brown-biege silty sand (ML); -	ML				0.0	tubes.
E		1	8.1 to 9.4 ft Brown clayey sand (SC);	sc				Boreho	le terminated at 25.0
	10	111	9.4 to 11.3 ft Dark brown silt (SC); medium stiff. Grades into unit below. No PHC odor.	SC			0	First	water encountered 25.0 ft, 2/1/2007.
		11111	11.3 to 14.4 ft Gray clay (CL) with black mottling; very stiff. No PHC odor.	CL				Temp slotted in bo	orary 1-in. diameter I PVC casing placed rehole, and sample
1111	15	TTT	14.4 to 16.1 ft Gray clay (CL) with black mottling; very stiff. No PHC odor.	CL			0	Boreho cer surfa	ble grouted with neat nent and a 6-inch ce seal of concrete,
		111	16.1 to 18.1 ft Brown gravel with clay (GC); medium loose, moist. No PHC odor.	GC				Borel	2/1/07. hole 18a drilled at a
	20	111111	18.1 to 22.1 ft Brown clay (CL) slowly grading into beige silt in the lower part of unit; medium stiff, moist. No PHC odor.	CL			0	horiz. froi pushi 59 ft. Hydro	distance of 1.5 feet m borehole 15 by ng a Hydropunch to and pulling back the of to expose the opunch screen from
1111		1111	22.1 to 25.0 ft Brown silty gravel (GM); loose, very moist. No PHC odor.	GM				55 collec	tion of water sample B18a-59W.
TITINTITI	25 30				÷		0	Water was Hydr polyet stain No F were san	r Sample B18a-59W collected from the ropunch using new thylene tubing with a ess steel foot valve. PHC odor or sheen a detected in water nples B18-25W or B18a-59W.

во	RING	O.: B19	PROJECT NO .: 0387	PROJECT N	IAME: 210	0 Franklin Ave, Oakla	nd, CA			
BO	RING	OCATION: Franklin St	reet	ELEVATION	AND DAT	JM: None		-		
DR	ILLING	AGENCY: Vironex, In EQUIPMENT: Geoprobe	c. DRIL	LER: Tim			DAT	E & TIME 3/20 8:00	E STARTED: 0/07	DATE & TIME FINISHED: 3/20/07 10:00 AM
CC	MPLE	ION DEPTH: 20.0	FEET BEDR	ROCK DEPTH: None	e Encounter	ed		LOGGI	ED BY:	CHECKED BY: DM GIBBS P.G. 7804
- 1	01 m	I I I I I I I I I I I I I I I I I I I	FEED NO. (UF SAMPLES: 2 Wa	Rer I			-	T	
	DEPTH(FT.		DESCRIPTION		GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS
-		- 0.0 to 1.0 ft Gra	avel, cement and sand	(FILL). No -	FILL	No Well			Borehol	e continuosly cored
F		Petroleum Hyd	rocarbon (PHC) odor.	OSO NO	FILL	Constructed			O.D. Ge	eoprobe Macrocore
		PHC odor.	own sand (FILL); loose,	dry. No -	FILL			0	Sar collect The sar	npler. Samples ed in 5-ft intervals. npler was lined with
11111111111	5	5.1 to 9.8 ft Bro	wn sandy silt (ML); me moist. No PHC odor.	dium –	ML			0	a 4.8-ft cellulo First wa 15.0 ft, Tempo	long 1 ³ / ₄ -inch O.D. se acetate tubes. tter encountered at 3/20/07, 8:30 AM. rary 1-in. diameter
	10	9.8 to 11.2 ft B brick, stiff, dry.	rown sand (SP); fragme No PHC odor.	ents of	SP			0	slotted in bore B19	PVC casing placed hole, and sample -20W collected.
11111111	15	- 11.2 to 14.1 ft F medium moist. - 14.1 to 18.0 ft (- saturated, No F	Black clay (CL); mediun No PHC odor. Green-gray silt (ML); me PHC odor.	n stiff,	CL	Ā		0	Boreh 20 Boreh neat cr 4-inc cor	ole terminated at 0 ft, 03/20/07. ole backfilled with ement grout and a h surface seal of acrete, 3/20/07.
1111				-	ML				Boreho horiz. c	le B19a drilled at a listance of 1.5 feet borebole 15 by
	20	18.0 to 20.0 ft (medium stiff, m	Green-gray silty sand (S loist. No PHC odor.	SM);	SM			0	pushin 59 ft. a roo Hydroj 48-5 collecti	g a Hydropunch to nd pulling back the I to expose the bunch screen from 52 foot depth for on of water sample B19a-52W.
	25								Water was of Hydro polyeth stainle No Pl	Sample B19a-52W collected from the opunch using new ylene tubing with a ss steel foot valve. HC odor or sheen detected in water
F	30	-		-					sam	bles B19-20W or B19a-52W

BC	RING	NO.:	B20 PROJECT NO.: 0387 PROJECT N	AME: 210	00 Franklin Ave, Oakla	nd, CA					
BC	RING	OCA	TION: Broadway - Northeast ELEVATION	AND DATU	JM: None						
DF	ILLING	AGE	INCY: Vironex, Inc. DRILLER: Tim	-		DAT	E & TIME 3/19/ 2:20	STARTED: /07 PM	DATE & TIME FINISHED: 3/19/07 3:30 PM		
CC	MPLE	TION	DEPTH: 20.0 FEET BEDROCK DEPTH: Non	e Encourter	red		LOGGE	D BY:	CHECKED BY: DM GIBBS P.G. 7804		
Fit	IST W	UEH	IDEPTH: 18.0 FEET NO. OF SAMPLES: 1 WE	iter					P.G. 7604		
	DEPTH(FT.		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID		REMARKS		
11111		11111	0.0 to 3.0 ft Concrete Slab.		No Well Constructed		0	Bore cored	hole continuosly a 5-ft long 3.5-inch .D. Geoprobe		
E	-		3.0 to 4.8 ft Brown sand (FILL); brick fragments. – No Petroleum Hydrocarbon (PHC) odor.	FILL				Mac Sampl interv	es collected in 5-ft vals. The sampler		
	5		4.8 to 6.3 ft Brown yellow sand (ML); loose, medium soft. No PHC odor.	ML			0	was lon	lined with a 4.8-ft g 1¾-inch O.D.		
		1111	medium stiff to very stiff. No PHC odor.	CL				First v	First water encountered at 18.0 ft, 3/19/07, 3:00		
11111111	10	IIIIIIIIIIII	9.1 to 14.1 ft Dark gray clay with gravel (CL); medium stiff, medium moist. No PHC odor.	CL			0	Te diam ca borel	PM. emporary 1-in. neter slotted PVC asing placed in hole, and sample		
	15	LIT.	14.1 to 16.0 ft Brown sand (SP); very loose, moist. No PHC odor.	SP			0	Boret 20)-20W collected. hole terminated at).0 ft, 03/19/07.		
111111		11111	16.0 to 20.0 ft Brown gravel (GM); very loose, saturated. No PHC odor.	GM	Ā		0	neat c 4-inc cor	the backmed with ement grout and a sh surface seal of increte, 3/19/07.		
	20	1111						were	detected in water mple B20-20W		
	25										
TTTT	30	11111									

BO	RING	NO.:	B21 PROJECT NO.: 0387 PROJECT N	IAME: 210	00 Franklin Ave, Oaklas	nd, CA				
BO	RING	LOCA	TION: Broadway - Southwest ELEVATION	AND DAT	JM: None					
DR DR	ILLING	AGE	INCY: Vironex, Inc. DRILLER: Tim			DAT	E & TIME 3/19 4:06	STARTED: /07 PM	DATE & TIME FINISHED: 3/19/07 5:00 PM	
CC	MPLE	TION	DEPTH: 20.0 FEET BEDROCK DEPTH: None	e Encounter	bed		LOGGE	D BY:	CHECKED BY: DM GIBBS P.G. 7804	
File	STW	ATEH	IDEPTH: 16.0 FEET NO. OF SAMPLES: 1 Wa	Iter			-	-	F.G. 7604	
-	DEPTH(FT.		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DID		REMARKS	
		111111	0 to 4.0 ft Brown gray gravel, sand and cement (FILL); loose. No Petroleum Hydrocarbon (PHC) odor.	FILL	No Well Constructed		0	Bore cored O Mac	hole continuosly a 5-ft long 3.5-inch .D. Geoprobe rocore Sampler. es collected in 5-ft	
E	5	-	4.0 to 5.0 ft Gray gravel (FILL); loose. No PHC odor	FILL				inter	als. The sampler	
	10		5.0 to 16.0 ft Brown sand (FILL); loose, medium moist. No PHC odor.	FILL			0	was lon celluk First v at 16. Tr diam ca bore B21 Borel	aned with a 4.8-ft g 1 ³ / ₄ -inch O.D. (se acetate tubes.) vater encountered 0 ft, 3/19/07, 4:30 PM. (amporary 1-in.) (eter slotted PVC) (sing placed in (hole, and sample) (-20W collected.) (nole terminated at (a.4, 23/10/07)	
	20		16.0 to 20.0 ft Brown gravel (FILL); loose, saturated. No PHC odor.	FILL	Ţ		0	20 Boreh neat c 4-inc col No P were sa	0.0 ft, 03/19/07. Nole backfilled with ement grout and a sh surface seal of increte, 3/19/07. HC odor or sheen detected in water mple B21-20W	
F	30	-								

BC	RING	10.:	B22 PROJECT NO.: 0387 PROJECT	NAME: 210	00 Franklin Ave, Oakla	nd, CA				
BC	RING	.OCA	TION: Southeast of Broadway ELEVATIO	N AND DAT	UM: None					
DF	ILLING	AGE	ENCY: Vironex, Inc. DRILLER: Tim			DAT	E & TIME	STARTED:	DATE & TIME FINISHED:	
DF	RILLING	EQU	JIPMENT: Geoprobe 6600				2:00	PM	2:45 PM	
cc	MPLE	TION	DEPTH: 20.2 FEET BEDROCK DEPTH: Nor	e Encounte	red		LOGGE	D BY:	CHECKED BY: DM GIBBS	
FIF	RST WA	TER	DEPTH: 17.4 FEET NO. OF SAMPLES: 1 W	aler			FJ		P.G. 7804	
8	DEPTH(FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	DIA		REMARKS	
1111111		111111	0 to 4.0 ft Concrete and gravel (FILL); loose. No Petroleum Hydrocarbon (PHC) odor.	FILL	No Well Constructed		0	Bore cored C Mac Samp	chole continuosly a 5-ft long 3.5-inch).D. Geoprobe procore Sampler. les collected in 5-ft	
111111	5	111111	4.0 to 8.0 ft Brown sand (SP); loose, medium moist. No PHC odor.	SP			0	intern was lon cellul	vals. The sampler lined with a 4.8-ft Ig 1 ³ /4-inch O.D. ose acetate tubes.	
	10		8.0 to 13.0 ft Dark gray clay (CL); some organic material, medium stiff, medium moist. No PHC odor.	CL			0	First at 17 T diar	water encountered .4 ft, 3/20/07, 2:20 PM. emporary 1-in. neter slotted PVC asing placed in	
	15	1111111	13.0 to 17.4 ft Dark green-gray clay (CL); medium soft, medium moist. No PHC odor.	CL			0	borehole, and sample B22-20W collected. Borehole terminated at 20.2 ft, 03/20/07. Borehole backfilled with neat cement grout and a		
	20	1111111111111111111	17.4 to 20.2 ft Dark green silty clay (CL); very moist. No PHC odor.	CL	÷		0	4-Inc co No P were sa	HC odor or sheen detected in water mple B22-20W	
TITTTT	30	1111111								

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во	RING	NO.:	B23 PROJECT NO.: 0387 PROJECT	NAME:	2100 Franklin St	treet I	nvestig	ation, Oak	land	
BC	RING	LOC	East side of Broadway, 45 feet south of 20th S	reet			ELEVAT	TION AND D	атим: None	
DR	ILLIN	IG AG	ENCY: Vironex, Inc.	ÐRILLI	R: Sayphone	DAT	E & TIME 7/23	STARTED: /08 20	DATE & TIME FINISHED: 7/23/08 1405	
co	MPL	ETIO	N DEPTH: 8.0 Feet BEDROCK DEPTH: 1	Not Enco	ountered	LOGGED BY: CHECK			CHECKED BY:	
FIF	STW	ATER	R DEPTH: Not Encountered NO. OF SAMPLES: 1	lone			ML	.D		
DEPTH (FT.)			DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	OII		REMARKS	
		11111	Concrete (2.0 fl.) underlain by 1.0 fl. of hard road base of silty fine sand.		No Well Constructed		0	Borehole I to 3.0 ft. d O.D. hand compacted auger beyo	hand augered from 2.0 epth using a 3.5-inch auger. Road base too I to continue with hand ond 3.0 feet.	
		111	3.0 to 8.0 ft. Brown fine sand (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) odor.	FILL			0	Borehole	continuously cored	
	9		7.0 ft. Color change to gray.				0	from 3.0 to long 2-inc Macrocore with 5-foo transparen	o 8.0 ft. using a 5-foot h O.D. Geoprobe e barrel sampler lined ot long 1.5-inch O.D. ht PVC sleeves.	
	10				Drilling refusal en feet on BART stat nembrane. Boreh sealed with dry be asphalt patch pend inspection of prop	counte ion pro ole ter ntonite ling BA osed 4	red at 8. tective nporaril and ART x4x8-ft.	Water not drilling. Drilling re feet. Bore bentonite. 0	encountered during fusal encountered at 8.0 hole backfilled with	
		111111111			trench to expose p membrane.	notecti	ve			
	20									
1111111	25									
	30	11111								

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80	UNG	NO.:	B24 PROJECT NO.: 0387 PROJEC	TNAN	AE: 2	2100 Franklin S	treet In	nvesti	gation, Oak	tland
BO	RING	LOC	West side of Franklin Street, 45 feet south of	20th	Stree	t		ELEVA	TION AND DA	atum: None
DR	LLIN	GAG	SENCY: Vironex, Inc.	D	RILLER	: John	DATE	& TIM 7/29	e started: /08	date & time finished: 7/29/08
DR	LLIN	GEC	QUIPMENT: Geoprobe 6600					08	30	1025
co	MPLE	TIO	N DEPTH: 30.0 Feet BEDROCK DEPTH:	BEDROCK DEPTH: Not Encountered					ED BY:	CHECKED BY:
FIR	ST W	ATER	R DEPTH: Not Encountered NO. OF SAMPLES: 1	Wat	er			M	LD	
DEPTH (FT.)			DESCRIPTION			WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS	
-		-	0.0 to 1.5 ft. Asphalt and road base.	-		No Well Constructed		0	Borehole I to 3.0 ft. d	hand augered from 0.0 epth using a 3.5-inch
		111111	 1.5 to 3.0 ft. Grayish brown silty sand (FILL); very loose, dry, with concrete and rock rubble and tree roots No Petroleum Hydrocarbon (PHC) odor. 3.0 to 4.0 ft. Light brown clayey silt (FILL); stiff, dry with orange mottling. No PHC odor. 	NIVILL		Constructed		0	O.D. hand refusal end construction Borehole (3.0 to 30.0	auger. Hand auger countered on on debris at 3.0 feet. continuously cored from ft. using a 5-foot long
	2		4.0 fb With brick fragments		FILL			0	2-inch O.1 barrel sam long 1.5-ii PVC sleev	 Geoprobe Macrocore pler lined with 5-foot ich O.D. transparent es.
	10	1111	10.0 ft. Moist, color change to gray.	1111				0	3 to 5 ft. 3	60% гесочегу
		1111		1111				0	5 to 10 ft.	90% recovery
_	15	1111	14.0 to 15.0 ft. Dark gray to black clay (FILL); soft, moist, with some wood construction debris. Slight oil odor.	M	-			12	15 to 20 f	1. 90% recovery
		1111	15.0 to 18.0 ft. Dark gray to black clayey sand (SC); loose, wet. Slight oil odor.		SC			15	20 to 25 f	t. 90% recovery
	20	1111	 18.0 to 20.0 ft. Gray silty clay (CL); medium stiff, moist, with tree root fragments. Slight oil odor. 20.0 to 23.0 ft. Dark gray clayey sand (SC); medium 		CL			17	25 to 30 i	t. 70% recovery
		1111	dense, moist, with minor gravel to 0.25 in. diameter. No PHC odor.		SC			0	Water not drilling.	encountered during
	75	1111	23.0 to 25.0 ft. Blue-gray clay (CL); stiff, moist, with minor coarse sand. No PHC odor.		CL			0	Borehole t on 7/29/08 upon remo	erminated at 30.0 ft. Borehole collapsed val of drill rods. Hydro- rted into borehole to
	25		25.0 to 27.0 ft. Brown silty sand (SM); loose, moist. No PHC odor.		SM			0	30.0 ft. and collect wat sample coll or sheen of	I retracted to 26.0 ft. to er sample B24-W; lected at 1105, no odor n sample. Borehole
		1111	27.0 to 30.0 ft. Light brown silt (ML); stiff, moist, with orange mottling. No PHC odor.	1111	ML			0	again colla of Hydrop water leve Borehole g using neat	psed upon withdrawal unch, unable to take I measurement. prouted on 7/29/08 cement grout.
-	30	-		-	-				-	

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BOI	GING	NO.:	D20 PROJECT NO.: U387 PROJECT N.	AME:	2100 Franklin S	treet li	nvesti	gation, Oal	ciand	
BO	RING	LOC	ATION: West side of Franklin Street, 150 feet from B20				ELEV	ATION AND DA	TUM: None	
DR	LLIN	G AG	EENCY: Vironex, Inc. DUPMENT: Geoprobe 6600	DRILLEF	a: Sayphone	DATE	а тім 7/23 10	e started: 708 15	DATE & TIME FINISHED: 7/23/08 1050	
co	MPLE	TIO	NDEPTH: 20 0 Feet BEDROCK DEPTH: No	t Encor	ontered		LOGG	ED BY:	CHECKED BY:	
FID	er n/	TED	DEPTH. Not Encountered No OFFICIERS, 1 W	ater		-	M	LD		
FIR	-	I En	NO. OF SAMPLES: 1 W	aler	Z	1	-	1	the second se	
DEPTH (FT			DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION	BLOW COUNT PER 6"	PID	REMARKS		
-		-	0.0 to 0.5 ft. Asphalt and road base		No Well			Borehole	hand augered from 0.0	
		1111	0.5 to 2.5 ft. Brown fine sand (FILL); very loose, dry No Petroleum Hydrocarbon (PHC) odor 2.5 to 7.0 ft. Construction debris (FILL)	FILL	Constructed		0	to 2.5 ft. depth using a 3.5-ind O.D. hand auger. Hand auger refusal encountered on construction debris at 2.5 feet		
	5	11111	No (PHC) odor.				0	Borehole continuously cored fro 2.5 to 20.0 ft. using a 5-foot long 2-inch O.D. Geoprobe Macrocon barrel sampler lined with 5-foot long 1 5-inch O.D. transparent		
	10	111111	 7.0 to 14.0 ft. Olive-green silty clay (CL); stiff, moist,	CL			0	2.5 to 5 ft	res. 10% recovery	
		11111		¥				5 to 10 ft.	100% recovery	
1 1 1			14.0 to 15.0 ft. Brown silty sand (SM); medium dense,	SM			0	10 to 15 ft	. 100% recovery	
	15	111111	15.0 to 19.0 ft. Brown gravelly sand (SW); loose, wet,	sw			0	15 to 20 fl	100% recovery	
_			19.0 to 20.0 ft. Olive-green silty sand (SM); medium dense, moist, with black and orange mottling.	SM			Ŭ	Water not drilling.	encountered during	
	20 25							Borehole 7/23/08. diameter placed in measured Sample B no odor o Borehole using nea	terminated at 20.0 ft. on Temporary 1-in. slotted PVC casing borehole. Water level at 12.5 ft. depth at 1056 25-W collected at 1055; r sheen on sample. grouted on 7/23/08 t cement grout.	
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BORI	G NO	.: В26 реојестно.: 0387 реојес	T NAME:	2100 Franklin S	Street I	nvesti	gation, Oa	kland
BORI	NG LO	CATION: 50 feet south of 21st Street on Webster Street				ELEV	ATION AND D	ATUM: None
DRIL	ING A	GENCY: Vironex, Inc.	DRILI	ER: Sayphone	DATI	7/23 07	ie started: 3/08 30	DATE & TIME FINISHED: 7/23/08 0840
COM	LETI	ом рерти: 25.0 Feet вервоск рерти:	Not Enc	ountered		LOGG	ED BY:	CHECKED BY:
FIRST	WATE	B DEPTH: Not Encountered NO. OF SAMPLES: 1	NO. OF SAMPLES: 1 Water				LD	
	2			Z	-	-	1	
	DEPTH (FT	DESCRIPTION	GRAPHIC	WELL CONSTRUCTIO	BLOW COUN PER 6"	BID		REMARKS
		0.0 to 0.5 ft. Asphalt and road base. 0.5 to 3.0 ft. Brown fine sand (FILL); very loose, dry. No Petroleum Hydrocarbon (PHC) odor. 3.0 to 6.0 ft. Brown sandy clay (FILL); stiff, moist, with brick, rubber, and glass rubble. No (PHC) odor.	FIL	No Well Constructed		0	Borehole to 3.0 fl. c O.D. hand refusal en constructi Borehole 3.0 to 25./ 2-inch O. barrel san	hand augered from 0.0 lepth using a 3.5-inch I auger. Hand auger countered on on debris at 3.0 feet. continuously cored from 0 ft. using a 5-foot long D. Geoprobe Macrocore ppler lined with 5-foot
1	0	 6.0 to 12.0 ft. Brown fine sand (SP); loose, moist. No (PHC) odor. 11.0 ft. Dark brown discoloration, slight PHC odor 	SP			0	long 1.5-1 PVC slee 3 to 5 ft.	nch O.D. transparent ves.
	111111	12.0 to 15.0 ft. Light gray silty clay (CL); stiff, moist, with orange mottling No PHC odor.	CL	· .		0	5 to 10 ft.	100% recovery
-	5	15.0 to 19.5 ft. Brown fine sand (SP); loose, moist. No PHC odor.	SP SP			0	15 to 20 f 20 to 25 f	t. 20% recovery 1. 100% recovery
2	0 -	19.5 to 23.0 ft. Light gray-brown clay (CL); stiff, moist, with orange mottling. No PHC odor.	CL.			0		
	-	23.0 to 25.0 ft. Brown silty sand (SM); loose, wet, with fine to coarse sand, and gravel to 0.25 in. diameter No PHC odor.	SM			0	Water not drilling	encountered during
							Borehole on 7/23/01 upon remo punch ins. 27.0 ft, an collect was sample co or sheen of ft. depth f rod remov grouted on cement en	terminated at 25.0 ft. 3. Borehole collapsed yval of drill rods. Hydro- erted into borehole to d retracted to 22.0 ft. to ter sample B26-W; llected at 0855, no odor in sample. Water at 17.4 ollowing Hydropunch 'al, at 0955. Borehole n 7/23/08 using neat out.

RGA ENVIRONMENTAL, INC. PAGE 1 OF 1 PROJECT NO .: 0387 BORING NO.: B27 2100 Franklin Street Investigation, Oakland PROJECT NAME: East side of Webster Street, 175 feet north of B30 ELEVATION AND DATUM: None BORING LOCATION: DATE & TIME FINISHED: DATE & TIME STARTED: DRILLING AGENCY: Vironex, Inc. DRILLER: Jeremy 8/28/08 8/28/08 0935 0830 Geoprobe 6600 DRILLING EQUIPMENT: LOGGED BY: CHECKED BY: COMPLETION DEPTH: 20.0 Feet BEDROCK DEPTH: Not Encountered MLD NO. OF SAMPLES: 1 Water Not Encountered FIRST WATER DEPTH: WELL CONSTRUCTION LOG BLOW COUNT PER 6" DEPTH (FT. GRAPHIC COLUMN PID REMARKS DESCRIPTION Borehole hand augered from 0.0 0.0 to 1.5 ft. Asphalt and road base. No Well to 8.0 ft. depth using a 3.5-inch 0 Constructed O.D. hand auger. 1.5 to 12.0 ft. Brown fine sand (SP); very loose, moist --No Petroleum Hydrocarbon (PHC) odor. 0 5 5.0 ft. With some gravel to 0.25-inch diameter. Borehole continuously cored from 8.0 to 20.0 ft. using a 5-foot long SP 2-inch O.D. Geoprobe Macrocore barrel sampler lined with 5-foot long 1.5-inch O.D. transparent **PVC** sleeves. 0 10 8 to 10 ft. 100% recovery 12.0 to 13.0 ft. Grayish brown clayey silty sand (SM); stiff, wet. No PHC odor. SM 10 to 15 ft. 100% recovery 13.0 to 14.0 ft. Brown fine sand (SP); loose, wet, with minor silt. No PHC odor. SP 0 14.0 to 15.0 ft. Grayish brown silty sand (SM); loose, wet, with orange mottling. No PHC odor. SM 15 15 to 20 ft. 100% recovery 15.0 to 18.5 ft. Brown fine sand (SP); loose, wet. No PHC odor. SP 0 18.5 to 20.5 ft. Grayish brown silty sand (SM); Water not encountered during SM loose, wet. No PHC odor. drilling. 20 Borehole terminated at 20.0 ft. on 8/28/08. Temporary I-in. diameter slotted PVC casing placed in borehole, and water level measured at 12.4 ft. at 0955, and at 12.3 ft. at 1010. Water sample B27-W collected at 1010; no odor or sheen on sample. 25 Borehole grouted on 8/28/08 using neat cement grout.

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BO	RING	NO.:	B30 PROJECT NO.: 0387 PROJEC	CT N/	AME:	2100 Franklin S	treet In	nvesti	gation, Oal	cland
BO	RING	LOC	East side of Webster Street, 78 feet north of	19tł	h Street			ELEVA	TION AND D	ATUM: None
DR		G AG	ENCY: Virogex, Inc.		DRILLER	: Jeremy	DATE	& TIM 8/28 110	e started: /08 00	DATE & TIME FINISHED: 8/28/08 1145
co	MPLE	TION	NEPTH- 20 0 Feet BEDROCK DEPTH-	No	t Encou	intered		LOGG	ED BY:	CHECKED BY:
FIR	STW	ATER	DEPTH: 14.0 Feet NO. OF SAMPLES:	SAMPLES: 1 Water				M	LD	and the second
DEPTH (FT.)			DESCRIPTION			LOG WELL WELL	BLOW COUNT PER 6"	PID		REMARKS
_		-	0.0 to 1.5 ft. Asphalt and road base.			No Well Constructed		0	Borehole to 5.0 ft. c	hand augered from 0.0 lepth using a 3.5-inch
	5	11111111111	 1.5 to 8.0 ft. Grayish brown silty sand (SM); loose, moist, with orange mottling. No Petroleum Hydrocarbon (PHC) odor. 		SM			0	O.D. hand Borehole 5.0 to 20. 2-inch O. barrel san long 1.5-i	l auger. continuously cored from 0 ft. using a 5-foot long D. Geoprobe Macrocore apler lined with 5-foot nch O.D. transparent
	10	111111	8.0 to 12.0 ft. Grayish brown clayey sand (SC); medium deose, moist. No PHC odor.	THILT	SC			0	5 to 10 ft.	. 70% recovery
	15		 12.0 to 17.5 ft. Brown fine sand (SP); loose, wet. Water discolored by sewage. No PHC odor. 13.5 ft. Piece of old clay pipe present. Saturated at 14.0 ft. 	THILL	∑ SP			0	10 to 15 f	1. 60% recovery 1. 90% recovery
LITIT			17.5 to 20.0 fl. Grayish brown silty sand (SM); medium dense, moist. No PHC odor.		SM			0	Water end	countered during t 14.0 feet depth.
	20 25			THAT THE FEET OF THE PARTY OF T					Borehole 8/28/08. diameter placed in B30-W c or sheen subseque depth at Borehole using nea	terminated at 20.0 ft. on Temporary 1-in. slotted PVC casing borehole, and sample ollected at 1150; no odor on sample. Water ntly measured at 14.4 ft. 1155. grouted on 8/28/08 it cement grout.

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BORDE	100	Base of walkway up ramp left of garage entra	nce			ELEV	TION AND B	TUM: None	
BORING	LOC	ATION: Base of walkway up famp left of galage entra	nee		DATE	ELEW	E STARTED.	DATE & TIME FINISHED	
DRILLIN	G AG	ENCY: Vironex, Inc. DRILLER	Brian/I	Manuel		11/1 08	5/08 345	11/15/08 0930	
COMPLE	TIO	N DEDTU, 13 5 Feet PEDDOCK DEPTU.	Jot Enco	untered	LOGGED BY:			CHECKED BY:	
COMPLE	TED	DEPTH: 15.5 FEEL BEDROCK DEFTH. 1	Water	Junicicu		M	LD		
TROT WATER DET		CORTIN: NOT EACOUMERCO NO. OF SAMPLES.			-	-	1		
DEPTH (FT.)		DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTIO	BLOW COUNT PER 6"	DD		REMARKS	
	111	0.0 to 0.5 ft. Concrete slab. 0.5 to 2.5 ft. Dark brown clayey silt (ML); medium stiff, dry. No Petroleum Hydrocarbon (PHC) odor.	ML	No Well Constructed		0	Borehole o 0.5 to 13.5 2.0-inch O Macrocore	continuously cored from 5 fl. using a 3-foot long 0.D. Geoprobe e barrel sampler lined est long 1 S inch O.D.	
	11	2.5 to 4.0 ft. Dark grayish-brown clay (CL); stiff, moist. No PHC odor.	CL				transparen	at PVC tubes.	
- 5		4.0 to 6.0 ft. Orange-brown gravelly sand (SW); loose, moist, with gravel to 0.25 in. diameter. No PHC odor.	sw			0	3 to 6 ft. 2	2.6 ft. recovery	
	1111	6.0 to 9.0 ft. Grayish-brown silty clay (CL); medium stiff, moist, with orange mottling. No PHC odor.	CL				6 to 9 ft. 2 9 to 12 ft.	2.4 ft. recovery 2.8 ft. recovery	
Ξ	-	9.0 to 10.0 ft. Dark brown clayey sand (SC); medium dense, moist. No PHC odor.	SC			0	12 to 13.5	ft. 1.1 ft. recovery	
- 10	1111	10.0 to 13.0 ft. Grayish-brown silty clay (CL); medium stiff, moist. No PHC odor.	CL				Drilling re	efusal at 13.5 ft.	
=		/13.0 to 13.5 ft. Orange-brown silty gravelly sand (SW); very dense, dry, with gravel to 1-in. diameter. No PHC odor.	sw			0	Water not drilling.	encountered during	
- 15							Borehole 11/15/08. diameter placed in borehole.	terminated at 13.5 ft. on Temporary 1-in. slotted PVC casing borehole. No water in	
	LEFLE						PVC casin hole, and 0 to 6 ft. o O.D. hand	ng removed from bore- borehole enlarged from depth using a 3.5-inch d auger	
20							Temporar PVC casi borehole. borehole and at 8.1	y 1-in. diameter slotted ng again placed in Water measured in at 12.1 ft depth at 1345, ft. at 1400.	
=			=				Water sar 1455; no	nple B31-W collected at odor or sheen on sample	
_ 25	THE						Borehole using tren grout.	grouted on 11/15/08 nie pipe and neat cemen	
	1111								
- 20	-		-						

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BOI	UNG	NO.:	B32 PROJECT NO.: 0387 PROJECT N	AME:	2100 Franklin S	treet l	nvestig	gation, Oal	land	
во	RING	LOC	ATION: Across garage parking office				ELEVA	TION AND DA	TUM: None	
DR		G AG	EENCY: Vironex, Inc. DRILLER:]	Brian/N	fanuel	DATI	E & TIMI 11/1: 10	e started: 5/08 30	date & time finished: 11/15/08 1115	
co	MPI F	TIO	N DEPTH: 16 0 Feet BEDROCK DEPTH: No	t Enco	untered		LOGGI	ED BY:	CHECKED BY:	
FIR	ST WA	TER	REPTH: Not Encountered NO. OF SAMPLES: 1 V	Water, 5 Soil			MI	D		
DEPTH (FT.)			DESCRIPTION		WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	E REMARKS		
		11111	0.0 to 0.5 ft. Concrete slab. 0.5 to 3.0 ft. Brown silty clay (CL); stiff, moist. Bluish green discoloration and strong Petroleum Hydrocarbon (PHC) odor from 2.0 to 2.5 ft. 3.0 to 8.0 ft. Orange-brown silty sand (SM); medium	CL	No Well Constructed B32-2.5		2065	Borehole of 0.5 to 16.0 2.0-inch C Macrocore with 2.8-fe transparen	ontinuously cored from ft. using a 3-foot long D. Geoprobe barrel sampler lined oot long 1.5-inch O.D. t PVC tubes.	
	5		dense, moist. Very strong PHC odor. 3.0 to 3.5 ft. Bluish green staining and trace gravel to 0.5-in diameter.	SM	B32-5.5		12	0.5 to 3 ft 3 to 6 ft 2 6 to 9 ft 2	2.7 ft. recovery .8 ft. recovery .4 ft. recovery	
	10	111111	8.0 to 12.0 ft. Bluish gray clayey silt (ML); medium stiff, moist, with orange mottling. Strong PHC odor.	ML	B32-8.5		19	9 to 12 fl. 12 to 15 ft	2.5 ft. recovery 2.8 ft. recovery 1.0 ft. recovery	
	15	LITTLE LITTLE	11.5 to 12.0 ft. With gravel to 0.75-in. diameter. 12.0 to 16.0 ft. Orange-brown clayey gravelly sand (SW); medium dense, moist, with bluish green staining, and gravel to 0.5-in. diameter. Strong PHC odor.	• sw	B32-11.5 B32-14.5		8 90	Drilling re Water not	fusal at 16.0 ft. encountered during	
	20							Borehole 11/15/08. diameter placed in borehole. PVC casii hole, and 0 to 14.5 0.D. hand Temporar PVC casii borehole.	terminated at 16.0 ft. on Temporary 1-in. slotted PVC casing borehole. No water in mg removed from bore- borehole enlarged from ft. depth using a 3.5-inch l auger y 1-in. diameter slotted mg again placed in Water measured in	
	25							borehole i and at 11. Water san 1640, stro on sample Borehole using tren grout.	at 12.3 ft depth at 1620, 9 ft. at 1630. nple B32-W collected at ng PHC odor and sheen 2. grouted on 11/15/08 nie pipe and neat cement	
RGA ENVIRONMENTAL, INC.

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BORING NO.:	B33 PROJECT NO.: 0387 PROJECT	NAME:	2100 Franklin S	treet In	ivestig	gation, Oal	land
BORING LOG	ATION: East side of parking garage				ELEVA	TION AND DA	TUM: None
DRILLING AGENCY: Vironex, Inc. D		ULLER: Brian/Manuel			DATE & TIME STARTED: - 11/15/08 1220		DATE & TIME FINISHED: 11/15/08 1350
Same and a sensory approved and sensory approved an			LOGGED BY:		ED BY:	CHECKED BY:	
COMPLETION DEPTH: 14.0 FCCL BEDROCK DEPTH: NO		UL ENCOL	Vator		MLD		
FIRST WATE	R DEPTH: Not Encountered NO. OF SAMPLES: 1	water	z		_		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION	BLOW COUNT PER 6"	PID	REMARKS	
5	0.0 to 0.5 ft. Concrete slab. 0.5 to 1.5 ft. Dark brown gravelly clayey sand (SC); medium dense, moist, with gravel to 0.5-in. diameter. No Petroleum Hydrocarbon (PHC) odor. 1.5 to 14.0 ft. Grayish brown silty clay (CL); stiff, moist, with orange mottling. No PHC odor. 3.0 to 3.5 ft. With sand and gravel to 0.25-in. diameter.	SC CL	No Well Constructed		0 0 0	Borehole (0.5 to 14.0 2.0-inch C Macrocord with 2.8-fo transparer 0.5 to 3 ft 3 to 6 ft. 2 6 to 9 ft. 2 9 to 12 ft. 12 to 14 ft Drilling re Water not drilling.	continuously cored from 0 ft. using a 3-foot long 0.D. Geoprobe barrel sampler lined bot long 1.5-inch O.D. t PVC tubes. 2.4 ft. recovery 2.7 ft. recovery 2.7 ft. recovery 2.0 ft. recovery efusal at 14.0 ft. encountered during
20						Borehole 11/15/08. diameter placed in borehole. PVC casi hole, and 0 to 12.0 O.D. hand Temporar PVC casi borehole and at 12 Water san 1550; no sample. Borehole using trei grout.	terminated at 14.0 ft. on Temporary 1-in. slotted PVC casing borehole. No water in mg removed from bore- borehole enlarged from ft. depth using a 3.5-incl d auger y 1-in. diameter slotted mg again placed in to 14.0 ft. (original e borehole to 14.0 ft. en). Water measured in at 12.8 ft depth at 1520, .5 ft. at 1540. mple B33-W collected at PHC odor or sheen on grouted on 11/15/08 mie pipe and neat cemer