



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

December 17, 2013

Mr. James Gotcher (Sent via E-mail to: JGotcher@ci.pleasanton.ca.us)
City of Pleasanton Public Works
P.O. Box 520
Pleasanton, CA 94566-0802

Subject: Case Closure for Fuel Leak Case No. RO0002938 and GeoTracker Global ID T0600194363, City of Pleasanton Fire Station #3, 3200 Santa Rita Road, Pleasanton, CA 94566

Dear Mr. Gotcher:

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. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Total Petroleum Hydrocarbons as gasoline remains in soil at concentrations up to 660 ppm.
- Total Petroleum Hydrocarbons as diesel remains in soil at concentrations up to 1,200 ppm.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Donna Drogos".

Donna Drogos, P.E.
Division Chief

Enclosures:

1. Remedial Action Completion Certification
2. Case Closure Summary

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

ALEX BRISCOE, Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

REMEDIAL ACTION COMPLETION CERTIFICATION

December 17, 2013

Mr. James Gotcher (Sent via E-mail to: JGotcher@ci.pleasanton.ca.us)
City of Pleasanton Public Works
P.O. Box 520
Pleasanton, CA 94566-0802

Subject: Case Closure for Fuel Leak Case No. RO0002938 and GeoTracker Global ID T0600194363, City of Pleasanton Fire Station #3, 3200 Santa Rita Road, Pleasanton, CA 94566

Dear Mr. Gotcher:

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

cc:

Colleen Winey (QIC 8021)
Zone 7 Water Agency
100 North Canyons Pkwy\
Livermore, CA 94551
(Sent via E-mail to: cdizon@zone7water.com)

Closure Unit
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(uploaded to GeoTracker)

Danielle Stefani (w/enc)
Livermore-Pleasanton Fire Department
3560 Nevada Street,
Pleasanton, CA 94566
(Sent via E-mail to: dstefani@pfire.org)

Hilary Mann
Engeo, Incorporated
2010 Crow Canyon Place, Suite 250
San Ramon, CA 94583
(Sent via E-mail to: HMann@engeo.com)

Shawn Munger
Engeo, Incorporated
2010 Crow Canyon Place, Suite 250
San Ramon, CA 94583
(Sent via E-mail to: SMunger@engeo.com)

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker (w/enc)
eFile (w/orig enc)

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

I. AGENCY INFORMATION

Date: December 26, 2012

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: City of Pleasanton Fire Station #3		
Site Facility Address: 3200 Santa Rita Road, Pleasanton, CA 94566		
RB Case No.: ----	Local Case No.: ----	LOP Case No.: RO0002938
URF Filing Date: 09/20/1996	Geotracker ID: T0600194363	APN: 946-1109-56
Responsible Parties	Addresses	Phone Numbers
James Gotcher City of Pleasanton Public Works	200 Old Bernal Avenue P.O. Box 520 Pleasanton, CA 94566-0802	(925) 931-5684

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
--	550	Diesel	Removed	09/12/1996
---	550	Gasoline	Removed	09/12/1996
Piping			Removed	09/12/1996

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Both tanks were found to be in good condition during removal. The pipes to both the gasoline and diesel dispensers had ½ to 1 inch holes. .		
Site characterization complete? Yes	Date Approved By Oversight Agency: ----	
Monitoring wells installed? Yes	Number: 3	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 26 feet bgs	Lowest Depth: 58 feet bgs	Flow Direction: Predominantly to the south southwest, which is the direction of the regional groundwater gradient; a variation to northwest gradient observed during one quarter.
Most Sensitive Current Use: Drinking water source.		

Summary of Production Wells in Vicinity: The nearest water supply well is municipal well Mocho #4, which is located approximately 1,200 feet south of the site. Based on the distance from the site and generally low concentrations of petroleum hydrocarbons detected in grab groundwater and monitoring well groundwater samples, municipal supply well Mocho #4 is not expected to be a receptor for the site. Three additional municipal supply wells (Mocho #1, 2, and 3) are located approximately 1,800 to 2,450 feet south of the site. Based on the distance from the site and generally low concentrations of petroleum hydrocarbons detected in grab groundwater and monitoring well groundwater samples, these additional municipal supply wells are not expected to be receptors for the site. The Stoneridge municipal supply well is located approximately 3,300 feet east of the site. Based on the distance from the site and generally low concentrations of petroleum hydrocarbons detected in grab groundwater and monitoring well groundwater samples, the Stoneridge well is not expected to be a receptor for the site.	
Are drinking water wells affected? No	Aquifer Name: Amador Subbasin of Livermore-Amador Basin
Is surface water affected? No	Nearest SW Name: Arroyo Mocho Canal is approximately 1,150 feet south of site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified.	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Livermore-Pleasanton Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tanks	550-gallon 550-gallon	The tanks were transported to Erickson, Inc. in Richmond, CA for disposal	09/12/1996
Piping	Not Reported	The piping was transported to Erickson, Inc. in Richmond, CA for disposal	09/12/1996
Free Product	----	----	----
Soil	74.4 tons	The soil was transported to TPS, Inc. in Richmond, CA for disposal	09/12/1996
Groundwater	----	----	----

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	660	660	620(1)	<50(1)
TPH (Diesel)	12,000	1,200	49,000(2)	<61(2)
TPH (Motor Oil)	290	290	990	<120(2)
Benzene	<0.005	<0.005	<0.5	<0.5
Toluene	<0.005	<0.005	<0.5	<0.5
Ethylbenzene	0.88	0.035	<0.5	<0.5
Xylenes	1.8	<0.005	<0.5	<0.5
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	8.9(4)	8.9(4)	Not Analyzed	Not Analyzed
MTBE	<0.005(5)	<0.005(5)	<0.5(6)	<0.5(6)
Other (8240/8270)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed

- 1) The maximum concentration before cleanup is from a grab groundwater sample collected from boring SR-2 on 04/03/2008; not detected at concentrations above reporting limits during groundwater monitoring from 02/14/2011 through 12/28/2011.
- (2) The maximum concentration before cleanup is from a grab groundwater sample collected from boring SR-2 on 04/03/2008; the maximum concentration after cleanup is from groundwater samples collected during the most recent groundwater monitoring event on 12/28/2011.
- (3) The maximum concentration before cleanup is from a grab groundwater sample collected from boring SB-2 on 03/10/2009; the maximum concentration after cleanup is from groundwater samples collected during the most recent groundwater monitoring event on 12/28/2011.
- (4) Total lead = 8.9 ppm; no other metals analyzed.
- (5) MTBE, ETBE, TAME, and DIPE <0.005 ppm; TBA <0.05 ppm; EDB and EDC = <0.004 ppm.
- (6) MTBE, DIPE; ETBE, TAME, EDB, and EDC <0.5 ppb; TBA <4.0 ppb.

Site History and Description of Corrective Actions:

The site is Livermore-Pleasanton Fire Department Station #3 located at the intersection of Santa Rita Road and West Las Positas Boulevard in Pleasanton, CA. Surrounding land use is mixed commercial and residential.

Two underground storage tanks (USTs) were removed from the Site in September 1996. The USTs were both 550 gallons in volume; one tank was used for gasoline, and the other tank was used for diesel fuel. The tanks were reportedly free of holes or other signs of corrosion but associated piping was found to have been rusted with visible leaks. Confirmation soil samples collected at the time of tank removal contained total petroleum hydrocarbons as diesel (TPHd) at a maximum concentration of 2,800 ppm.

Additional soil was excavated from the former tank area in November 1996. A sample collected from a gravel soil layer, 2 feet below the ground surface (bgs), contained TPHd at a concentration of 12,000 ppm. Following additional excavation, a confirmation soil sample collected from the same gravel layer contained TPHd at a concentration of 2 ppm.

In June 2007, one soil boring (SR-1) was advanced near the former UST location for the purpose of soil and groundwater characterization; however, the boring was terminated before groundwater was encountered. A soil sample collected from a depth of 12 feet bgs contained TPHd at a concentration of 2.2 ppm. An additional soil boring (SR-2) was advanced at the Site in April 2008. A soil sample collected from a depth of 15 feet bgs and a grab groundwater sample contained TPHd at concentrations of 1,100 ppm and 49,000 ppb, respectively.

During an additional site investigation in March 2009, five soil borings were advanced to a maximum depth of 60 feet bgs. Both soil and grab groundwater samples were collected from the soil borings. Soil samples collected from soil boring SB-1, which was located adjacent to the former USTs, contained TPHd at concentrations ranging from 57 to 1,200 ppm and TPHg at concentrations ranging from 19 to 660 ppm. Soil samples from the remaining soil borings, which were outside the area of the USTs, did not contain TPHg or TPHd at concentrations above the reporting limits.

Three monitoring wells (MW-1 through MW-3) were installed at the site in January 2011. The groundwater monitoring wells were sampled quarterly from February 24, 2011 to December 28, 2011. During the initial groundwater sampling event on February 14, 2011, TPHd and TPHmo were detected in groundwater at maximum concentrations of 170 and 520 ppb, respectively. TPHd and TPHmo were not detected at concentrations above reporting limits during the most recent quarterly monitoring event on December 28, 2011. TPHg, BTEX, MTBE, and other fuel oxygenates were not detected at concentrations above reporting limits during the four groundwater monitoring events.

Based on the results of grab groundwater samples and quarterly groundwater monitoring from three monitoring wells, a plume of TPHd and TPHmo may be present within the area of the former USTs. TPHg, BTEX, MTBE, or other fuel oxygenates do not appear to be dissolved in groundwater at concentrations above water quality criteria.

IV. CLOSURE

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, closure of this site appears to be consistent with the policies established by the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy which became effective on August 17, 2012.		
<p>Site Management Requirements:</p> <p>This fuel leak case has been evaluated for closure consistent with the criteria in the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Sites that meet the general and media-specific criteria in the LTCP are considered to not pose a threat to human health, safety, or the environment and are appropriate for closure pursuant to Health and Safety Code section 25296.10. Therefore, no site management requirements are placed on the site.</p>		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 3
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

The site has not been evaluated for vapor intrusion to indoor air. The depth to groundwater is typically more than 26 feet bgs and benzene has not been detected in groundwater at concentrations above the reporting limit. The site appears to meet the conditions for a bioattenuation zone using LTCP criteria. Based on these conditions, the site appears to meet the media-specific criteria for vapor intrusion in Scenario 3 (Low Concentration Groundwater Scenario without Oxygen Data) of the LTCP. Cases that meet these LTCP criteria are assumed to not pose unacceptable health risks for petroleum vapor intrusion.

Benzene and ethylbenzene have not been detected in shallow soil at concentrations that exceed the direct contact and outdoor air exposure criteria prescribed in the LTCP for residential and commercial land use. However, no laboratory analyses have been performed for naphthalene in shallow soil. During overexcavation of the tank pit area, soil containing up to 12,000 ppm of TPHd was removed. A confirmation soil sample collected from the sidewall of the excavation contained 2.2 ppm of TPHd. Based on the apparent removal of the largest mass of TPHd contaminated soil, it appears likely that concentrations of naphthalene in residual soil are likely to be less than the LTCP criteria for direct contact and outdoor air exposure. Therefore, the site meets the LTCP criteria for direct contact and outdoor air exposure.

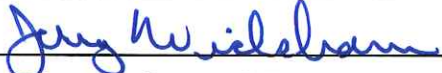
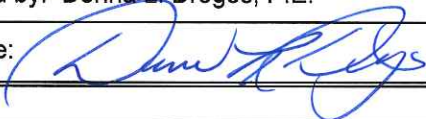
The site appears to meet the prescribed numerical groundwater media-specific criteria for closure under the LTCP based on the following conditions:

1. The plume that exceeds water quality objectives is less than 100 feet in length.
2. There is no free product.
3. The nearest water supply well and surface water body is more than 1,000 feet from the plume boundary.
4. The dissolved concentrations of benzene and MTBE are less than 1,000 ppb.

Conclusion:

Alameda County Environmental Health staff believe that the site meets the criteria for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 2/13/13
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: 	Date: 2/13/13

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: 02/13/13	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 03/26/13	Date of Well Decommissioning Report: 12/09/13	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 3	Number Retained: 0
Reason Wells Retained: ----		
Additional requirements for submittal of groundwater data from retained wells: None.		
ACEH Concurrence - Signature: Jerry Wiselham		Date: 12/17/13

Attachments:

1. Site Vicinity Map and Site Plan (2 pp)
2. Groundwater Contour Maps (3 pp)
3. Chemical Concentration Maps and Tank Removal Sample Location Maps (5 pp)
4. Soil Analytical Data (9 pp)
5. Groundwater Analytical Data (2 pp)
7. Boring Logs (20 pp)

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

Wickham, Jerry, Env. Health

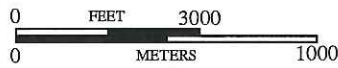
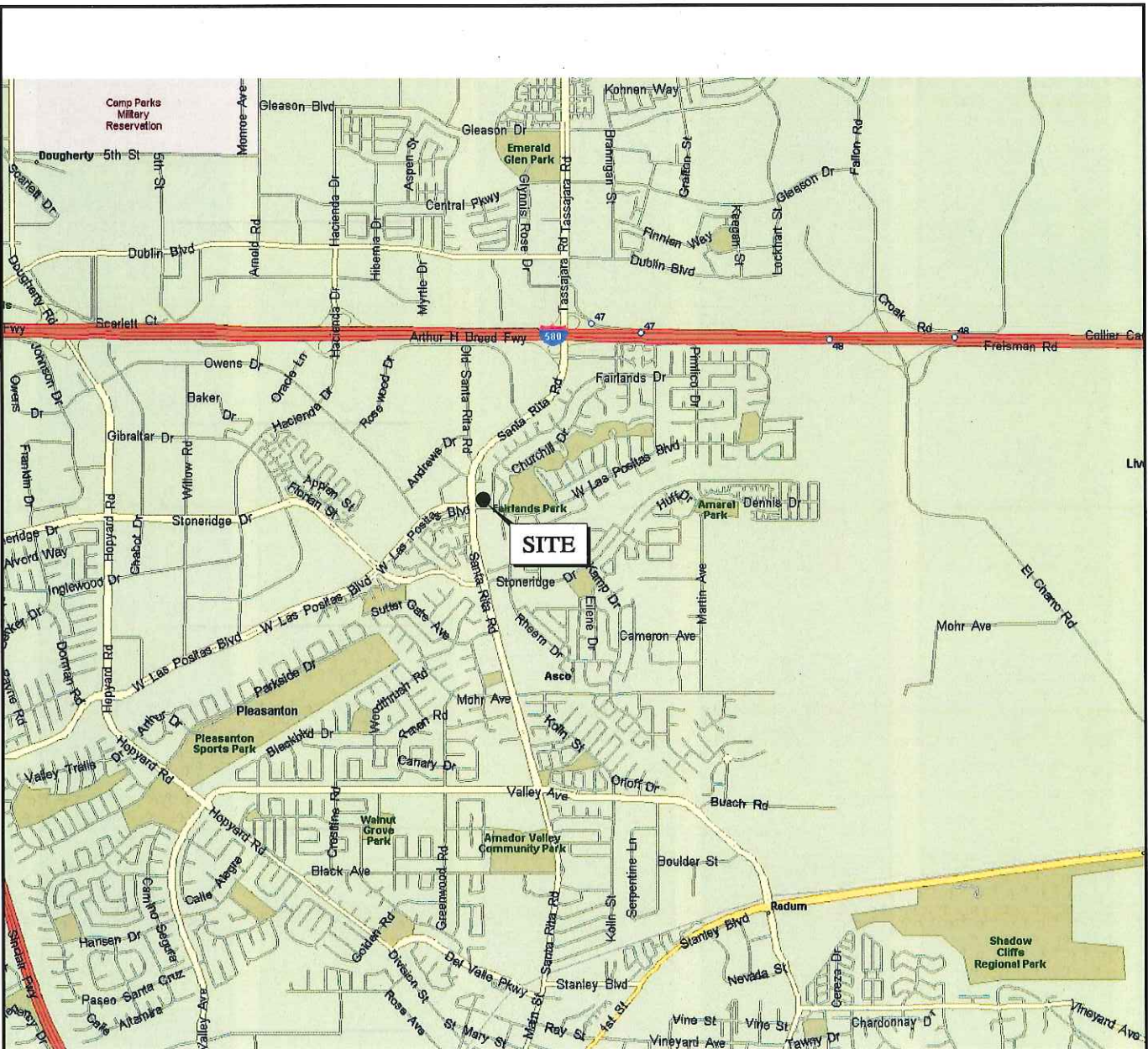
From: Wickham, Jerry, Env. Health
Sent: Wednesday, February 13, 2013 2:39 PM
To: Cherie McCaulou
Subject: RO2938 3200 Santa Rita Road, Pleasanton
Attachments: RO2938_Closure_summary_2013-02-13.pdf

Hi Cherie,

This email provides notification of pending closure for ACEH case RO2938, 3200 Santa Rita Road, Pleasanton.

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org

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BASE MAP SOURCE: MS STREETS AND TRIPS



VICINITY MAP
 FIRE STATION #3, 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

PROJECT NO.: 6621.100.120

DATE: AS SHOWN

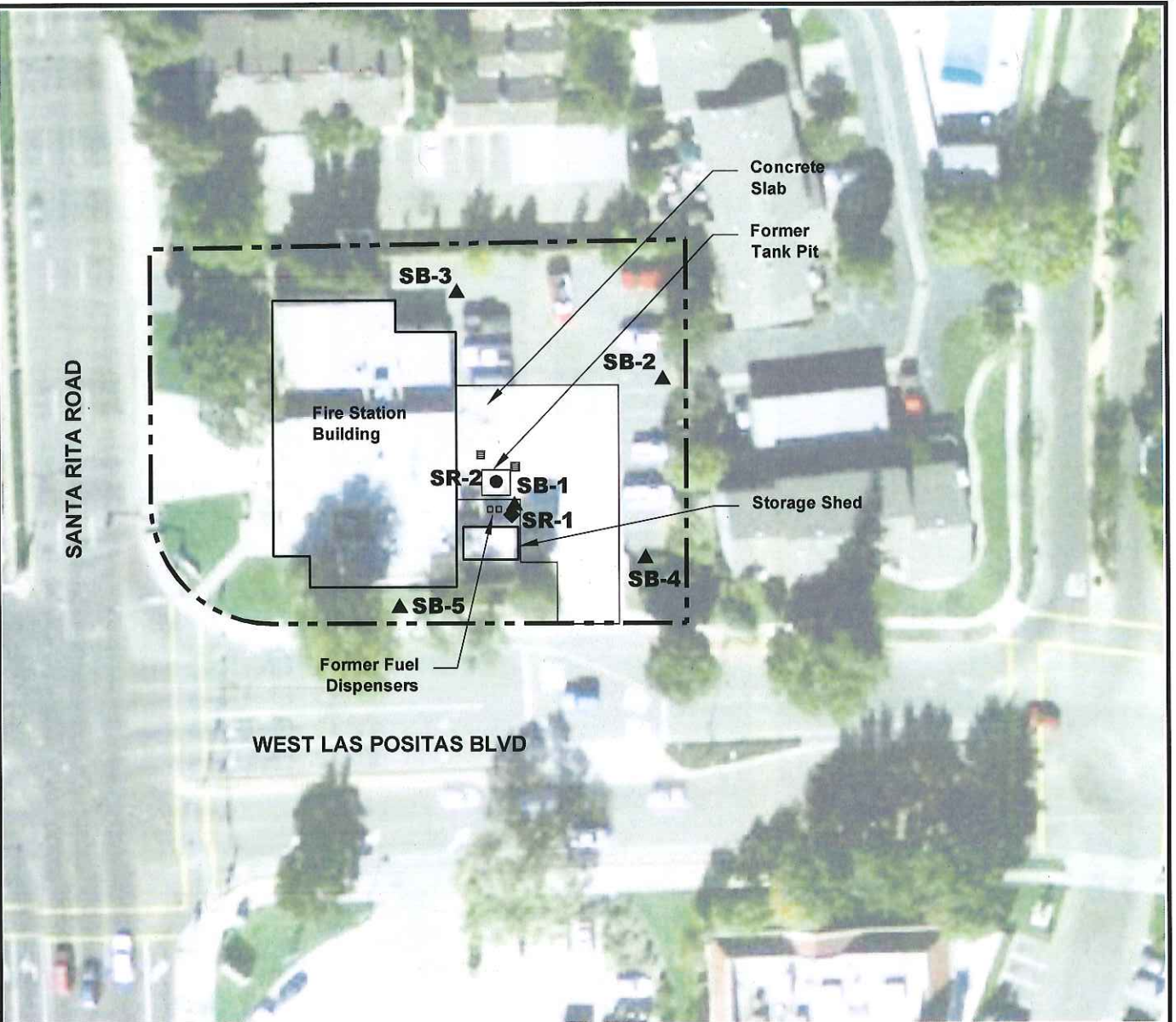
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CHECKED BY: SM

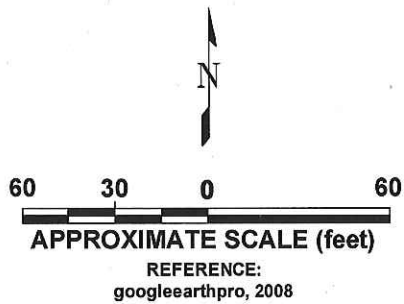
FIGURE NO.

1

PLOTTED: 29 Jun 2009, 9:30pm, dfahmey



ATTACHED IMAGES: SITE-VIC.jpg Images: SITEPLAN.jpg
 ATTACHED XREFS: XRef: Eng-A_8x11_P_Style
 PLEASANTON, CA CAD FILE: L:\2009\CADD\84855\ LAYOUT: SITEPLAN



LEGEND

- PROPERTY LINE
- STORM DRAIN INLET
- SR-1** SOIL BORING (by Kleinfelder, 2007)
- SR-2** SOIL BORING (by Kleinfelder, 2008)
- SB-5** SOIL BORING (by Kleinfelder, 2009)

NOTE: Locations are approximate.

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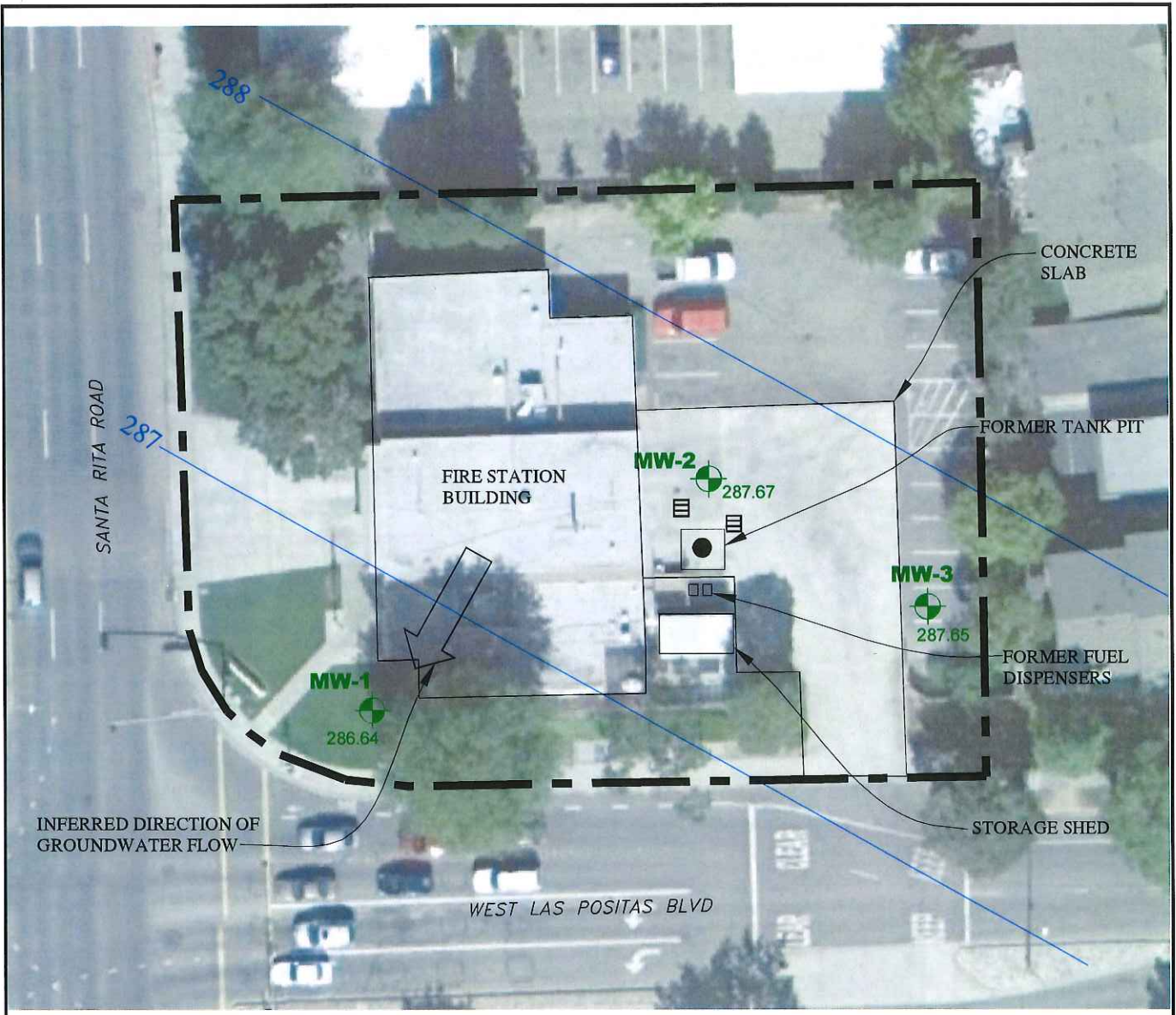


PROJECT NO.	84855
DRAWN:	APR 2009
DRAWN BY:	LGS/JDS
CHECKED BY:	JAL
FILE NAME:	FH#3_UST_2009-04.dwg






SITE PLAN
PLEASANTON FIREHOUSE #3 3200 SANTA RITA ROAD PLEASANTON, CALIFORNIA

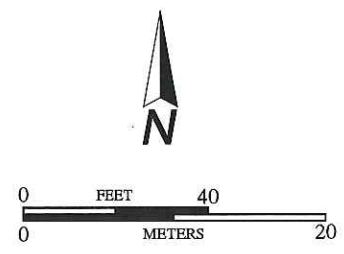
PLATE
2

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EXPLANATION

-  PROPERTY LINE
-  STORM DRAIN INLET
-  **MW-3** LOCATION OF PROPOSED MONITORING WELL
-  **287.67** GROUNDWATER ELEVATION (FT-MSL)
-  **288** GROUNDWATER CONTOUR (FT-MSL)



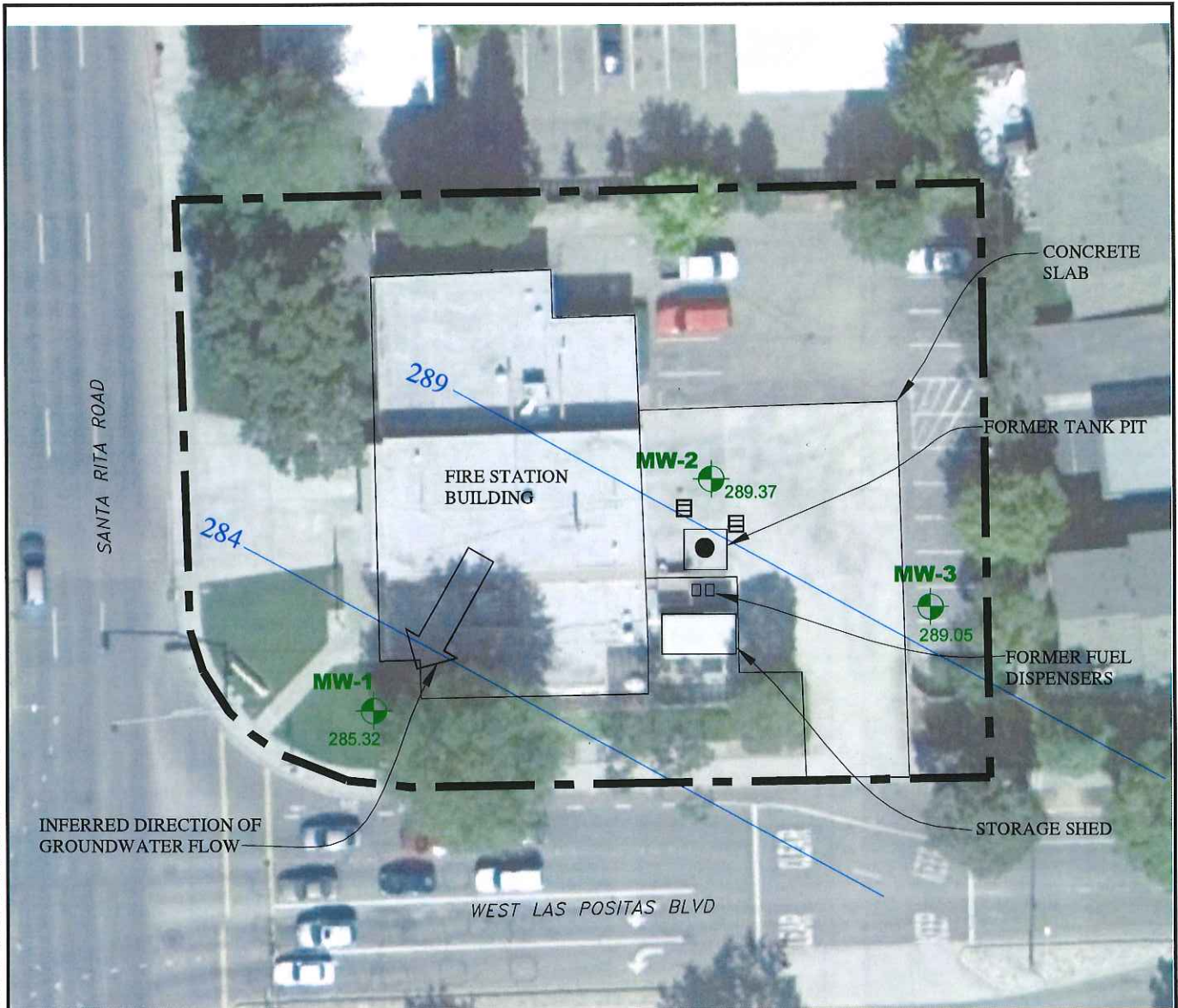
BASE MAP SOURCE: KLEINFELDER, GOOGLE EARTH, 2011

 ENGEO <i>Expect Excellence</i>	GROUNDWATER ELEVATIONS - DECEMBER 2011 FIRE STATION #3, 3200 SANTA RITA ROAD PLEASANTON, CALIFORNIA		PROJECT NO.: 6621.100.120	FIGURE NO. 2
			DATE: AS SHOWN	
			DRAWN BY: SRP	CHECKED BY: SM






G:\Drafting\DRAWING2_Dwg\6621\100\100\GroundwaterElevations-12-11\6621100120-2-GroundwaterElevations-12-11-0112.dwg 1-31-12 07:43:36 AM spotters ORIGINAL FIGURE PRINTED IN COLOR

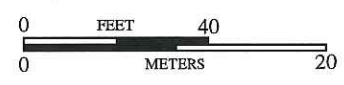
ATTACHMENT 2

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EXPLANATION

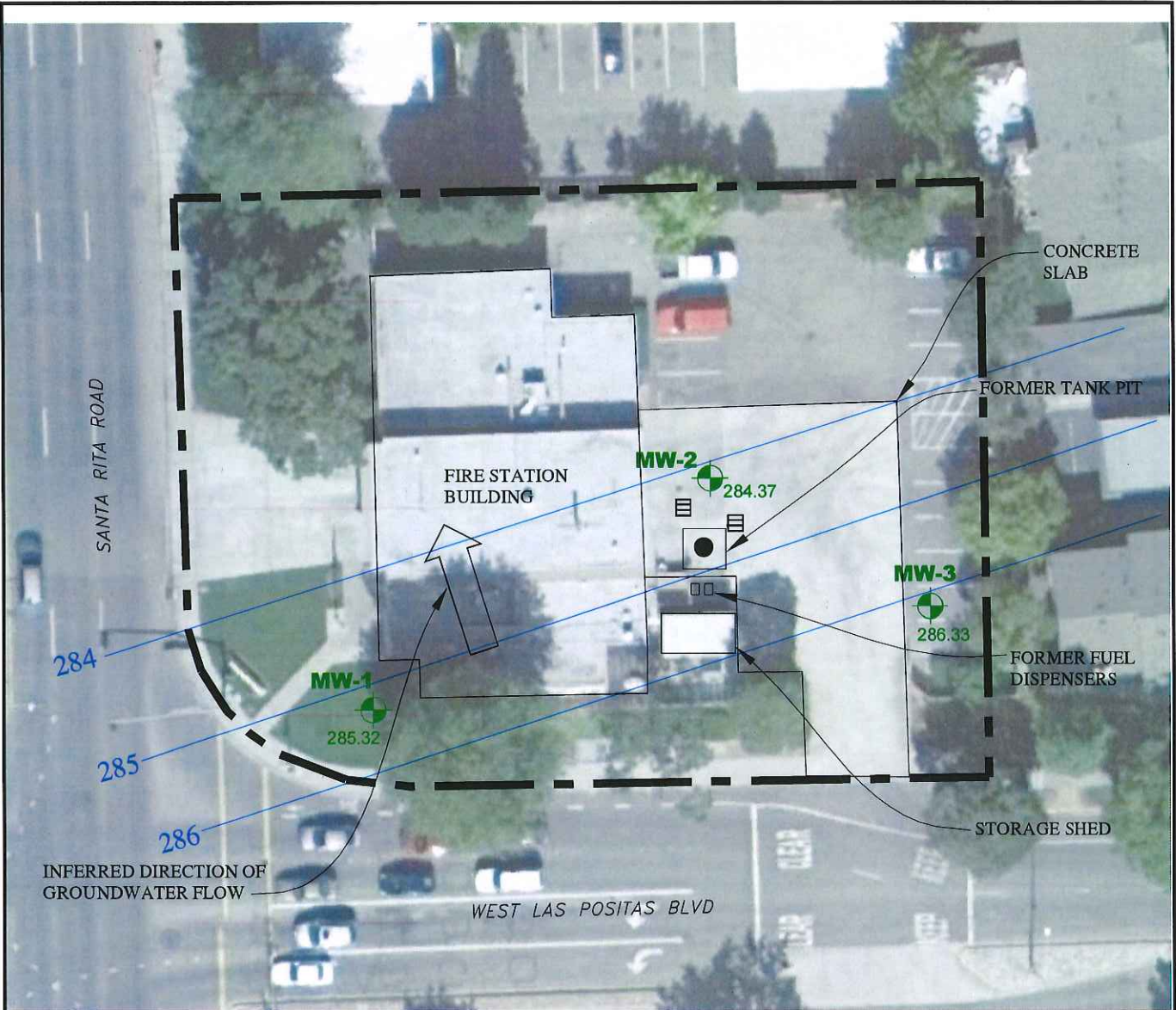
-  PROPERTY LINE
-  STORM DRAIN INLET
-  LOCATION OF PROPOSED MONITORING WELL
-  289.05 GROUNDWATER ELEVATION (FT-MSL)
-  289 GROUNDWATER CONTOUR (FT-MSL)



BASE MAP SOURCE: KLEINFELDER, GOOGLE EARTH, 2011

	<p align="center">GROUNDWATER ELEVATIONS - SEPTEMBER 2011 FIRE STATION #3, 3200 SANTA RITA ROAD PLEASANTON, CALIFORNIA</p>	PROJECT NO.: 6621.100.120	FIGURE NO.
		DATE: AS SHOWN	2
		DRAWN BY: SRP	CHECKED BY: SM

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EXPLANATION

- PROPERTY LINE
- STORM DRAIN INLET
- N
 APPROXIMATE LOCATION OF PROPOSED MONITORING WELL
- 286.33
 GROUNDWATER ELEVATION (FT-MSL)
- GROUNDWATER CONTOUR (FT-MSL)



BASE MAP SOURCE: KLEINFELDER, GOOGLE EARTH, 2011

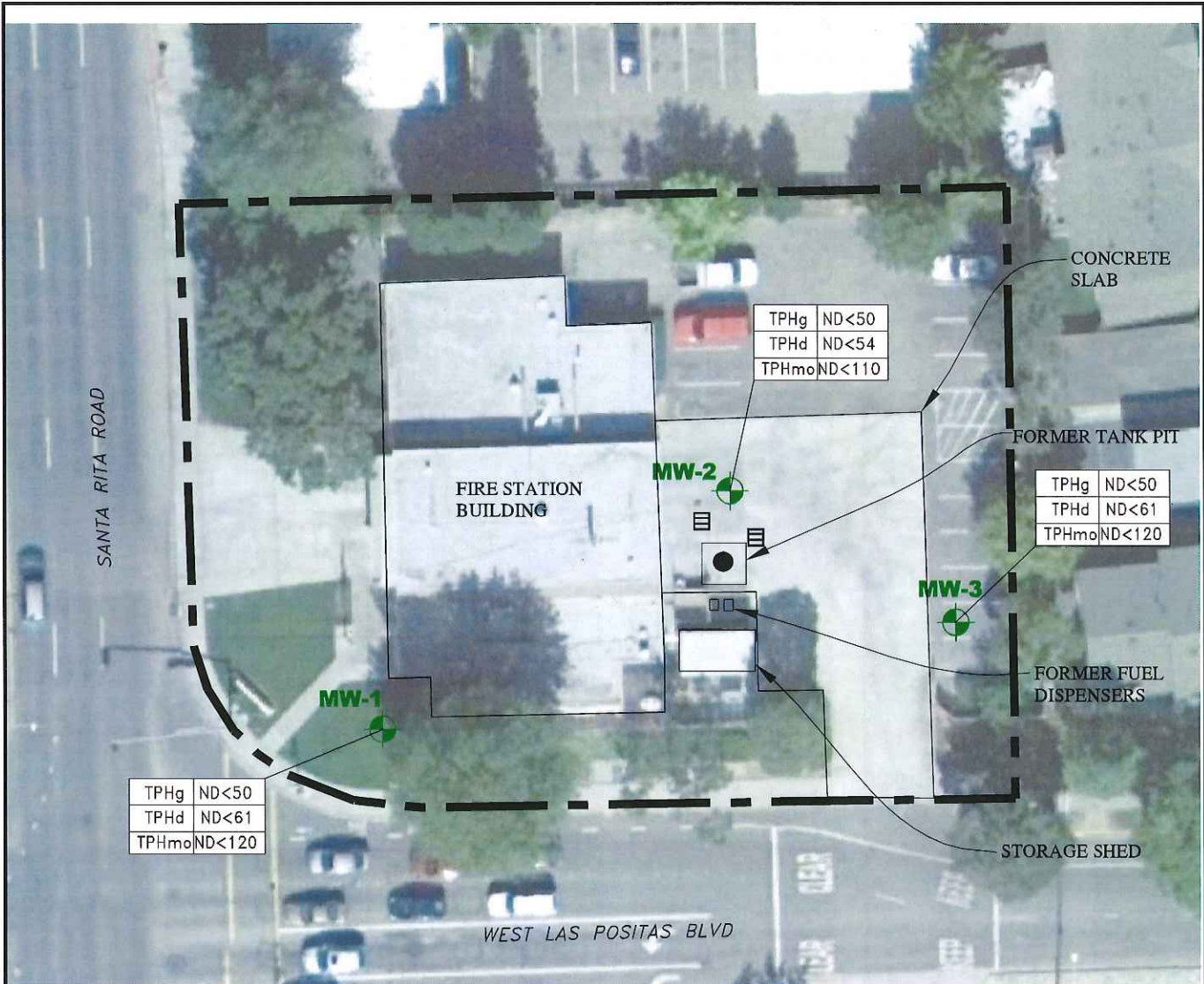


GROUNDWATER ELEVATIONS -FEBRUARY 2011
 FIRE STATION #3, 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA




PROJECT NO.: 6621.100.120	
DATE: AS SHOWN	
DRAWN BY: SRP	CHECKED BY: SM

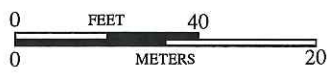
FIGURE NO.
2

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EXPLANATION

-  PROPERTY LINE
-  STORM DRAIN INLET
-  **MW-3** LOCATION OF PROPOSED MONITORING WELL
- TPHg TOTAL HYDROCARBONS AS GASOLINE CONCENTRATIONS ($\mu\text{g/L}$)
- TPHd TOTAL HYDROCARBONS AS DIESEL CONCENTRATIONS ($\mu\text{g/L}$)
- TPHmo TOTAL HYDROCARBONS AS MOTOR OIL CONCENTRATIONS ($\mu\text{g/L}$)
- ND NON - DETECT CONCENTRATION



BASE MAP SOURCE: KLEINFELDER, GOOGLE EARTH, 2011



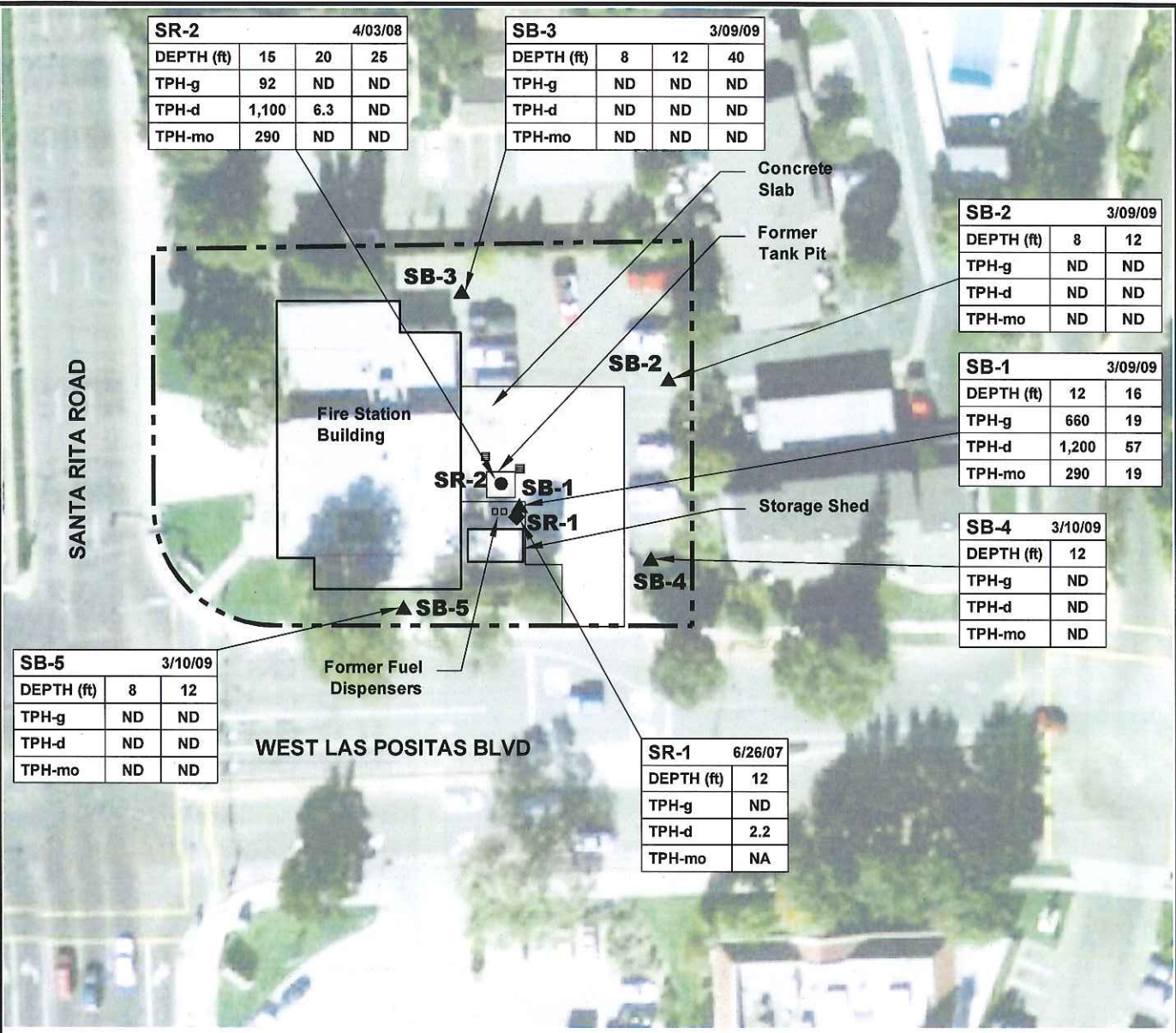
GROUNDWATER ANALYTICAL RESULTS - DECEMBER 2011
 FIRE STATION #3, 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

PROJECT NO.:	6621.100.120
DATE:	AS SHOWN
DRAWN BY:	SRP
CHECKED BY:	SM

FIGURE NO.
3

ATTACHMENT 3

PLOTTED: 30 Jun 2009, 9:06am, dfahmney



SB-5 3/10/09		
DEPTH (ft)	8	12
TPH-g	ND	ND
TPH-d	ND	ND
TPH-mo	ND	ND

SR-1 6/26/07	
DEPTH (ft)	12
TPH-g	ND
TPH-d	2.2
TPH-mo	NA

LEGEND

- PROPERTY LINE
- STORM DRAIN INLET
- ◆ SR-1 SOIL BORING (by Kleinfelder, 2007)
- SR-2 SOIL BORING (by Kleinfelder, 2008)
- ▲ SB-5 SOIL BORING (by Kleinfelder, 2009)

- TPH TOTAL PETROLEUM HYDROCARBONS
- TPH-g TPH AS GASOLINE
- TPH-d TPH AS DIESEL
- TPH-mo TPH AS MOTOR OIL
- 660 CONCENTRATION IN SOIL (mg/kg)
- ND NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- mg/kg MILLIGRAMS PER KILOGRAM



REFERENCE:
googleearthpro, 2008

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NOTE: Locations are approximate.

ATTACHED IMAGES: SITE-VIC.jpg Images: SITEPLAN.jpg
 ATTACHED XREFS: XRef: Eng-A_8x11_P_StyleA
 PLEASANTON, CA CAD FILE: L:\2009\CADD\84855\ LAYOUT: TPH-SOIL



PROJECT NO.	84855
DRAWN:	APR 2009
DRAWN BY:	LGS/JDS
CHECKED BY:	JAL
FILE NAME:	FH#3_UST_2009-04.dwg

TPH CONCENTRATIONS IN SOIL	PLEASANTON FIREHOUSE #3 3200 SANTA RITA ROAD PLEASANTON, CALIFORNIA

PLATE
3

PLOTTED: 30 Jun 2009, 9:06am, dfahmey

SANTA RITA ROAD

WEST LAS POSITAS BLVD

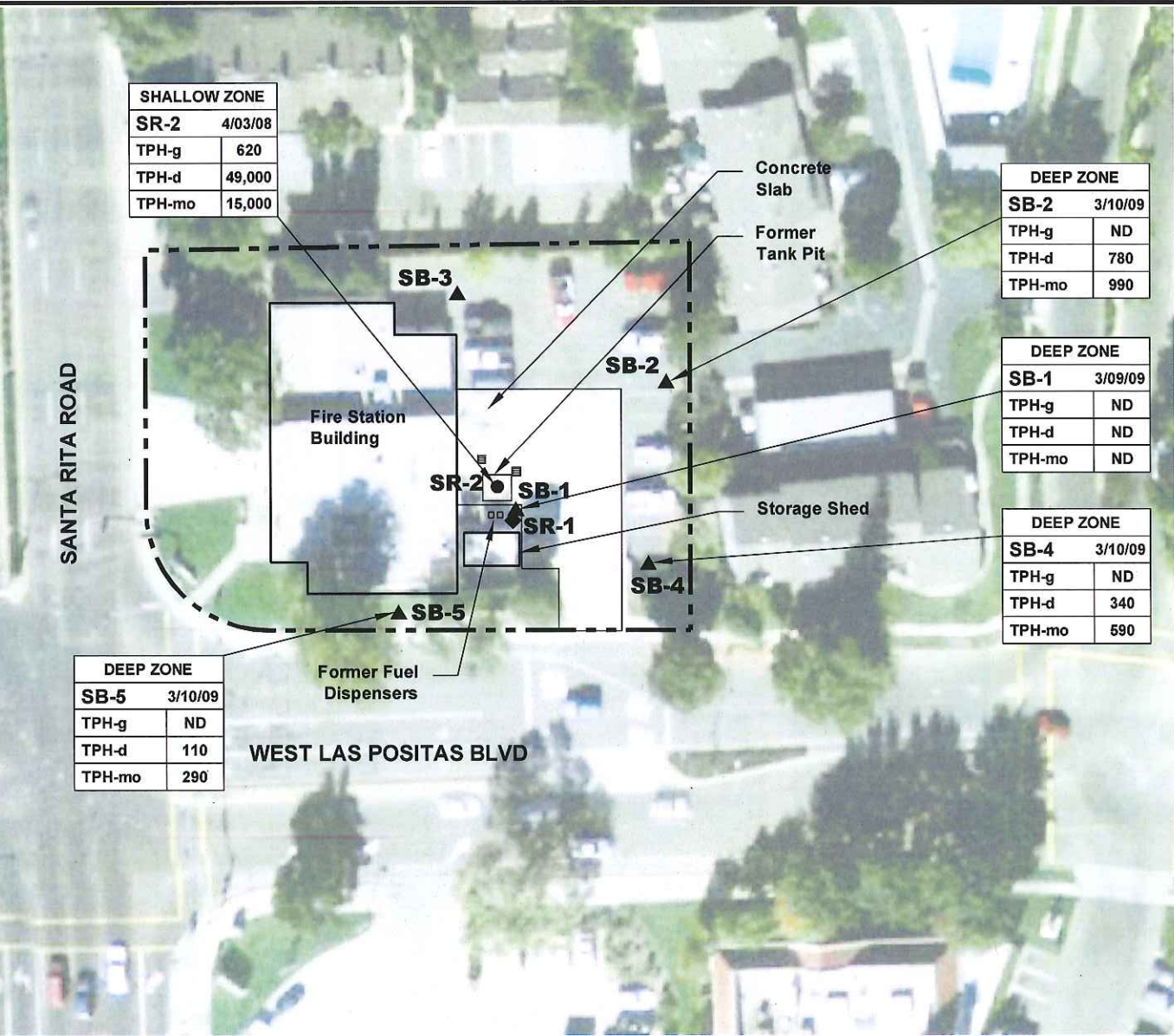
SHALLOW ZONE	
SR-2	4/03/08
TPH-g	620
TPH-d	49,000
TPH-mo	15,000

DEEP ZONE	
SB-2	3/10/09
TPH-g	ND
TPH-d	780
TPH-mo	990

DEEP ZONE	
SB-1	3/09/09
TPH-g	ND
TPH-d	ND
TPH-mo	ND

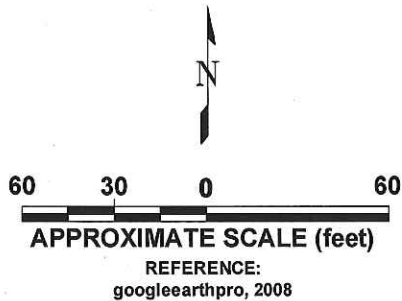
DEEP ZONE	
SB-4	3/10/09
TPH-g	ND
TPH-d	340
TPH-mo	590

DEEP ZONE	
SB-5	3/10/09
TPH-g	ND
TPH-d	110
TPH-mo	290



ATTACHED IMAGES: Images: SITE-VIC.jpg Images: SITEPLAN.jpg
 ATTACHED XREFS: XRef: Eng-A_8x11_P_StyleA
 PLEASANTON, CA CAD FILE: L:\2009\CADD\184855 LAYOUT: TPH-GW

LEGEND



- PROPERTY LINE
- STORM DRAIN INLET
- ◆ SR-1 SOIL BORING (by Kleinfelder, 2007)
- SR-2 SOIL BORING (by Kleinfelder, 2008)
- ▲ SB-5 SOIL BORING (by Kleinfelder, 2009)

- TPH TOTAL PETROLEUM HYDROCARBONS
- TPH-g TPH AS GASOLINE
- TPH-d TPH AS DIESEL
- TPH-mo TPH AS MOTOR OIL
- 780 CONCENTRATION IN GROUNDWATER (µg/L)
- ND NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- NA NOT ANALYZED
- µg/L MICROGRAMS PER LITER

NOTE: Locations are approximate.
 Shallow Zone 20-30 feet bgs
 Deep Zone 60 feet bgs

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PROJECT NO.	84855
DRAWN:	APR 2009
DRAWN BY:	LGS/JDS
CHECKED BY:	JAL
FILE NAME:	FH#3_UST_2009-04.dwg

TPH CONCENTRATIONS IN GROUNDWATER

PLEASANTON FIREHOUSE #3
 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

PLATE

4

Santa Rita Rd



Fire Station #3

Emer. gen. building

SSW-D-4'

PB-G-9 1/2'

Pipe from low area to drain

Drain

Drain

West has Positas Blvd

56'

concrete rubble

S.P. 20' x contaminated

SP-C

SP-S

4 samples collected

P.B.-G-9 1/2'

South S.W.-D-4'

S.P.-C

S.P.-S

Parking

Fence

Fence

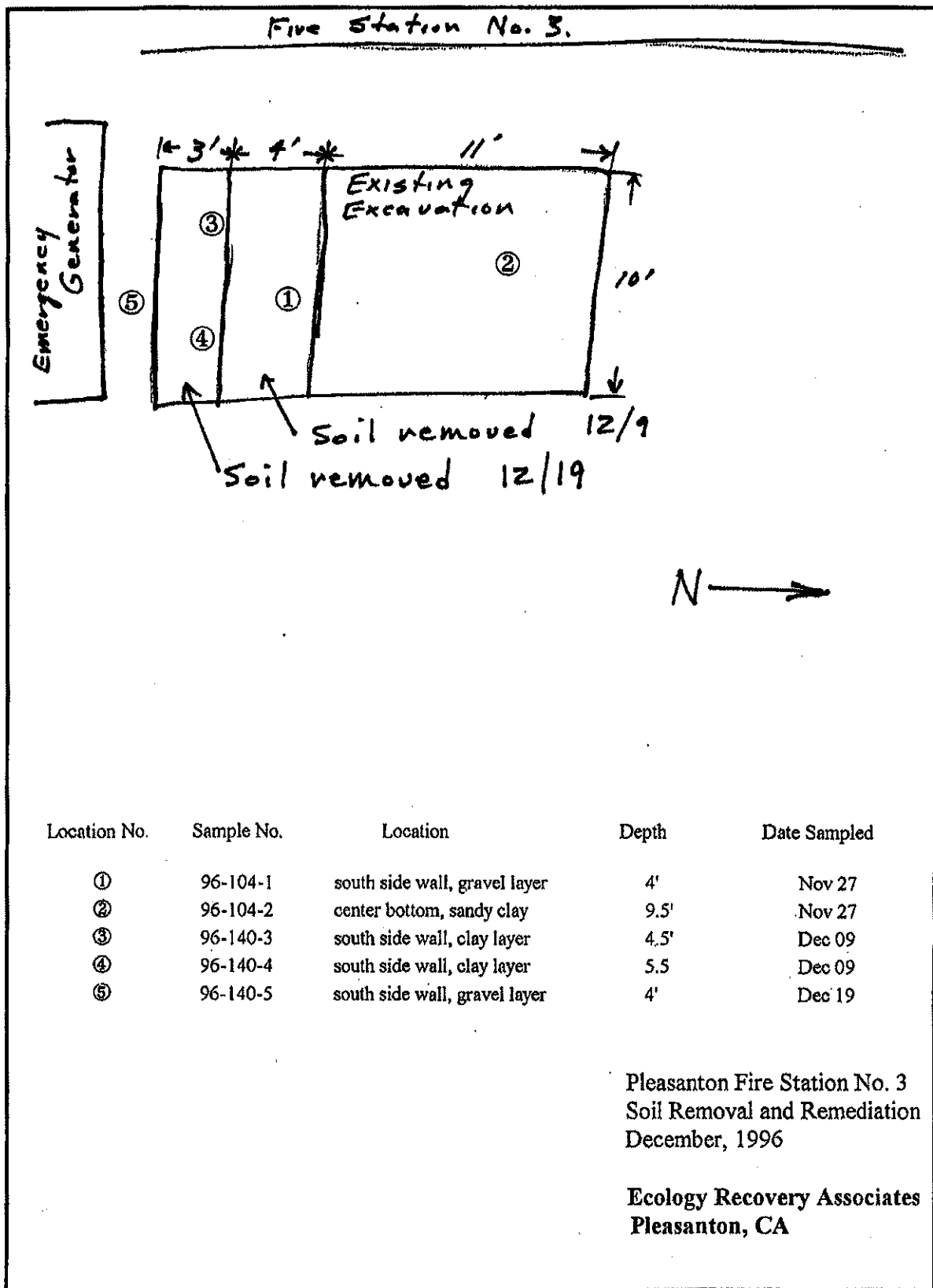




TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
FIRE STATION NO. 3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

		Sample ID, Date and Depth					
Analyte	Method	SB-1-12 3/9/2009 12 feet	SB-1-16 3/9/2009 16 feet	SB-2-8 3/9/2009 8 feet	SB-2-12 3/9/2009 12 feet	SB-3-8 3/9/2009 8 feet	SB-3-12 3/9/2009 12 feet
Petroleum Hydrocarbons (mg/kg)	8015M						
TPH (Gasoline)		660	19	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
TPH (Diesel)		1,200	57	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)
TPH (Motor Oil)		290	19	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
Volatile Organic Compounds BTEX and Oxygenates (mg/kg)	8260B						
Acetone		ND<2.0	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Benzene		ND (<0.20)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Toluene		ND (<0.20)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Ethylbenzene		ND (<0.20)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Total Xylenes		ND (<0.20)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
tert-Amyl Methyl Ether (TAME)		ND (<0.20)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
tert-Butyl Alcohol (TBA)		ND (<2.0)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)
sec-Butyl benzene		0.78	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
n-Propyl benzene		0.30	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Methyl tert-Butyl Ether (MTBE)		ND (<0.20)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Ethylene Dibromide (EDB)		ND (<0.16)	ND (<0.004)	ND (<0.004)	ND (<0.004)	ND (<0.004)	ND (<0.004)
1, 2-Dichloroethane		ND (<0.16)	ND (<0.004)	ND (<0.004)	ND (<0.004)	ND (<0.004)	ND (<0.004)
Metals (mg/kg)							
Lead		8.5	7.0	6.2	ND (<5.0)	ND (<5.0)	ND (<5.0)



**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
FIRE STATION NO. 3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA**

Analyte	Method	Sample ID, Date and Depth						RWQCB - ESLs ¹
		SB-3-40 3/9/2009 40 feet	SB-4-8 3/10/2009 8 feet	SB-4-12 3/10/2009 12 feet	SB-5-8 3/10/2009 8 feet	SB-5-12 3/10/2009 12 feet	Residential Land Use	
Petroleum Hydrocarbons (mg/kg)	8015M							
TPH (Gasoline)		ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	83	
TPH (Diesel)		ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	83	
TPH (Motor Oil)		ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	370	
Volatiles Organic Compounds BTEX and Oxygenates (mg/kg)	8260B							
Acetone		ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	0.066	0.50	
Benzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	0.044	
Toluene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	2.9	
Ethylbenzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	3.3	
Total Xylenes		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	2.3	
tert-Amyl Methyl Ether (TAME)		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	
tert-Butyl Alcohol (TBA)		ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	NE	
sec-Butyl benzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	
n-Propyl benzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	
Methyl tert-Butyl Ether (MTBE)		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	0.023	
Ethylene Dibromide (EDB)		ND (<0.004)	ND (<0.004)	ND (<0.004)	ND (<0.004)	ND (<0.004)	0.00033	
1, 2-Dichloroethane		ND (<0.004)	ND (<0.004)	ND (<0.004)	ND (<0.004)	ND (<0.004)	0.0045	
Metals (mg/kg)								
Lead		8.9	5.4	ND (<5.0)	6.6	8.3	200	

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory. Laboratory data met EPA and laboratory specifications for quality assurance and quality control.
¹ California Regional Water Quality Control Board, San Francisco Bay Region. Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water, Interim Final, November 2007 (Revised May 2008).

Acronyms/Abbreviations:

mg/kg - milligrams per kilogram

ESLs - Environmental Screening Levels

RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)

ND - Not detected at or above laboratory reporting limit

NE - Not established

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
FIRE STATION NO. 3
PLEASANTON, CALIFORNIA**

Analyte	Method	Sample ID and Date				RWQCB - ESLs ¹ Residential Land Use 2007	Hazardous Waste Criteria	
		SR-2-15 4/3/2008	SR-2-20 4/3/2008	SR-2-25 4/3/2008	TTLIC		STLC x 10	
Total Lead (mg/kg)	8020A	11	7.5	12	200	1,000	50	
Petroleum Hydrocarbons (mg/kg)	8015C							
TPH (Gasoline)		92	ND (<1.0)	ND (<1.0)	83	--	--	
TPH (Diesel)		1,100	6.3	ND (<1.0)	83	--	--	
BTEX and Oxygenates (mg/kg)	8260B ²							
Benzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	0.044	--	--	
Toluene		ND (<0.005)	ND (<0.005)	ND (<0.005)	2.9	--	--	
Ethylbenzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	3.3	--	--	
Total Xylenes		0.035	ND (<0.005)	ND (<0.005)	2.3	--	--	
tert-Amyl Methyl Ether (TAME)		ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	--	--	
tert-Butyl Alcohol (TBA)		ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	--	--	
Diisopropyl Ether (DIPE)		ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	--	--	
Ethyl tert-Butyl Ether (ETBE)		ND (<0.005)	ND (<0.005)	ND (<0.005)	NE	--	--	
Methyl tert-Butyl Ether (MTBE)		ND (<0.005)	ND (<0.005)	ND (<0.005)	0.023	--	--	
Ethylene Dibromide (EDB)		ND (<0.004)	ND (<0.004)	ND (<0.004)	0.00033	--	--	
1, 2-Dichloroethane		ND (<0.004)	ND (<0.004)	ND (<0.004)	0.0045	--	--	

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory. Laboratory data met EPA and laboratory specifications for quality assurance and quality control.

¹ California Regional Water Quality Control Board, San Francisco Bay Region. Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater Is Current or Potential Source of Drinking Water, Interim Final, November 2007.

² Samples also analyzed for BTEX compounds and MTBE using EPA Method 8021B.

Acronyms/Abbreviations:

- mg/kg - milligrams per kilogram
- mg/L - milligrams per liter
- ESLs - Environmental Screening Levels
- RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)
- ND - Not detected at or above laboratory reporting limit
- NE - Not established





McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: #84855/S&A; Pleasanton Fire	Date Sampled: 06/26/07
	Client Contact: Jim Lehrman	Date Received: 06/26/07
	Client P.O.:	Date Analyzed: 06/27/07
		Date Extracted: 06/26/07

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0706693

Lab ID	0706693-002A	Reporting Limit for DF = 1	S	W
Client ID	SR-1-12			
Matrix	S			
DF	1			

Compound	Concentration			mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND			0.005	NA
Benzene	ND			0.005	NA
t-Butyl alcohol (TBA)	ND			0.05	NA
Diisopropyl ether (DIPE)	ND			0.005	NA
Ethylbenzene	ND			0.005	NA
Ethyl tert-butyl ether (ETBE)	ND			0.005	NA
Methyl-t-butyl ether (MTBE)	ND			0.005	NA
Toluene	ND			0.005	NA
Xylenes	ND			0.005	NA

Surrogate Recoveries (%)

%SS1:	98				
%SS2:	99				
%SS3:	99				

Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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Kleinfelder, Inc.
7133 Koll Center Pkwy, #100
Pleasanton, CA 94566

Client Project ID: #84855/S&A;
Pleasanton Fire

Date Sampled: 06/26/07

Date Received: 06/26/07

Client Contact: Jim Lehrman

Date Extracted: 06/26/07

Client P.O.:

Date Analyzed 06/29/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B

Analytical methods SW8015Cm

Work Order: 0706693

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
002A	SR-1-12	S	ND	1	82

Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

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Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: #84855/S&A; Pleasanton Fire	Date Sampled: 06/26/07
	Client Contact: Jim Lehrman	Date Received: 06/26/07
	Client P.O.:	Date Analyzed 06/27/07

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method SW3550C

Analytical methods SW8015C

Work Order: 0706693

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0706693-002A	SR-1-12	S	2.2,k	1	87

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.

 Angela Rydelius, Lab Manager

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

W.A. Craig, Inc. P.O. Box 448 Napa, CA 94559-0448	Client Project ID: City of Pleasanton; # 3620	Date Sampled: 09/12/96
		Date Received: 09/12/96
	Client Contact: Bill Craig	Date Extracted: 09/12/96
	Client P.O:	Date Analyzed: 09/12-09/13/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
 EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
68944	PB-D-7'	S	ND	---	ND	ND	ND	ND	105
68945	PB-G-7.5'	S	ND	---	ND	ND	ND	ND	102
68946	SP	S	ND	---	ND	ND	ND	0.008	106
68947	SW-S-4'	S	150,g	---	ND < 0.02	ND < 0.02	0.88	1.8	97
68948	SP-C	S	11,g	---	ND	ND	ND	0.042	100
68949	SP-S	S	190,g	---	ND	0.035	0.37	2.5	100
68950	PB-G-9.5'	S	1.8,g	---	ND	ND	ND	0.025	95
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

EH Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
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W.A. Craig, Inc. P.O. Box 448 Napa, CA 94559-0448	Client Project ID: City of Pleasanton; # 3620	Date Sampled: 09/12/96
		Date Received: 09/12/96
	Client Contact: Bill Craig	Date Extracted: 09/12/96
	Client P.O.:	Date Analyzed: 09/12-09/13/96

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH (d) ⁺	% Recovery Surrogate
68944	PB-D-7'	S	ND	100
68945	PB-G-7.5'	S	ND	100
68946	SP	S	150,a	102
68947	SW-S-4'	S	2800,a	102
68948	SP-C	S	84,a	101
68949	SP-S	S	1900,a	104
68950	PB-G-9.5'	S	29,a	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L.
 # cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.
 + The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

Table 1. Summary of laboratory results from soil sampling at Fire Station No. 3 excavation, Pleasanton, CA.

Sample I D	Date	Location	TPH-d	TPH-g
96-104-1	11/27/96	South side wall-gravel layer	12,000	N.D. ¹
96-104-2	11/27/96	Center bottom of excavation	N.D.	N.D.
96-104-3	12/9/96	South side wall - clay layer	N.D.	N.A.R. ²
96-104-4	12/9/96	South side wall - clay layer	N.D.	N.A.R.
96-104-5	12/19/96	South side wall - gravel layer	2.0	N.A.R.

¹ N.D. = Not detected above reporting limit. See attached lab reports of reporting limits.

² N.A.R. = No analysis required.

TABLE B
Groundwater Monitoring Well Analytical Data
 Fire Station #3, 3200 Santa Rita Road
 Pleasanton, California

Sample ID	Date	Depth to Water ft	Total Petroleum Hydrocarbons (µg/L)			Benzene µg/L	Toulene µg/L	Ethylbenzene µg/L	Xylene(s) µg/L	MTBE µg/L	TBA µg/L	ETBE µg/L	DIPE µg/L	TAME µg/L
			Gasoline	Diesel	Motor Oil									
MW-1	2/14/2011	56.92	ND<50	72	210	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
	6/3/2011	N/A	ND<50	ND<58	ND<120	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
	9/30/2011	57.95	ND<50	ND<60	190	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
MW-2	12/28/2012	55.60	ND<50	ND<61	ND<120	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
	2/14/2011	58.00	ND<50	170	520	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
	6/3/2011	N/A	ND<50	ND<54	ND<110	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
MW-3	9/30/2011	53.00	ND<50	ND<55	ND<110	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
	12/28/2012	54.70	ND<50	ND<54	ND<110	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
	2/14/2011	56.62	ND<50	ND<61	ND<120	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
MW-3	6/3/2011	N/A	ND<50	ND<56	ND<110	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
	9/30/2011	53.90	ND<50	ND<56	ND<110	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5
	12/28/2012	55.30	ND<50	ND<61	ND<120	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<4	ND<0.5	ND<0.5	ND<0.5

12/28/2011

NOTES:

Samples have undergone silica gel cleanup unless otherwise noted.
 µg/L = micrograms per liter

**TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FIRE STATION NO. 3
PLEASANTON, CALIFORNIA**

Analyte	Method	Sample ID and Date	RWQCB - ESLs ¹ Residential Land Use 2007
Petroleum Hydrocarbons (µg/L)	8015C	SR-2 4/3/2008	
TPH (Gasoline)		620	100
TPH (Diesel)		49,000	100
Volatile Organic Compounds (µg/L)	8260B ²		
Benzene		ND (<0.5)	1.0
Toluene		ND (<0.5)	40
Ethylbenzene		ND (<0.5)	30
Total Xylenes		ND (<0.5)	20
tert-Amyl Methyl Ether (TAME)		ND (<0.5)	NE
tert-Butyl Alcohol (TBA)		ND (<2.0)	NE
Diisopropyl Ether (DIPE)		ND (<0.5)	NE
Ethyl tert-Butyl Ether (ETBE)		ND (<0.5)	NE
Methyl tert-Butyl Ether (MTBE)		ND (<0.5)	5.0
Ethylene Dibromide (EDB)		ND (<0.5)	0.05
1, 2-Dichloroethane		ND (<0.5)	0.5

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory. Laboratory data meet EPA and laboratory specifications for quality assurance and quality control.

¹ California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water*, Interim Final, November 2007.

² Samples also analyzed for BTEX compounds and MTBE using EPA Method 8021B.

Acronyms/Abbreviations:

mg/kg - milligrams per kilogram

µg/L - micrograms per liter

ESLs - Environmental Screening Levels

RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)

ND - Not detected at or above laboratory reporting limit

NE - Not established





TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FIRE STATION NO. 3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

Analyte	Method	Sample ID and Date					RWQCB - ESLs ¹
		SB-1 3/9/2009	SB-2 3/10/2009	SB-4 3/10/2009	SB-5 3/10/2009	Residential Land Use	
Petroleum Hydrocarbons (µg/L)	8015M						
TPH (Gasoline)		ND (<50)	ND (<50)	ND (<50)	ND (<50)	100	
TPH (Diesel)		ND (<50)	780	340	110	100	
TPH (Motor Oil)		ND (<250)	990	590	290	100	
Volatile Organic Compounds (µg/L)	8260B						
Benzene		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	1.0	
Toluene		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	40	
Ethylbenzene		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	30	
Total Xylenes		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	20	
tert-Amyl Methyl Ether (TAME)		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NE	
tert-Butyl Alcohol (TBA)		ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	NE	
Diisopropyl Ether (DIPE)		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NE	
Ethyl tert-Butyl Ether (ETBE)		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NE	
Methyl tert-Butyl Ether (MTBE)		ND (<0.5)	0.87	ND (<0.5)	ND (<0.5)	5.0	
Ethylene Dibromide (EDB)		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	0.05	
1, 2-Dichloroethane		ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	0.5	

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory.

Laboratory data met EPA and laboratory specifications for quality assurance and quality control.

¹ California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water*, Interim Final, November 2007 (Revised May 2008).

Acronyms/Abbreviations:

µg/L - micrograms per liter

ESLs - Environmental Screening Levels

RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)

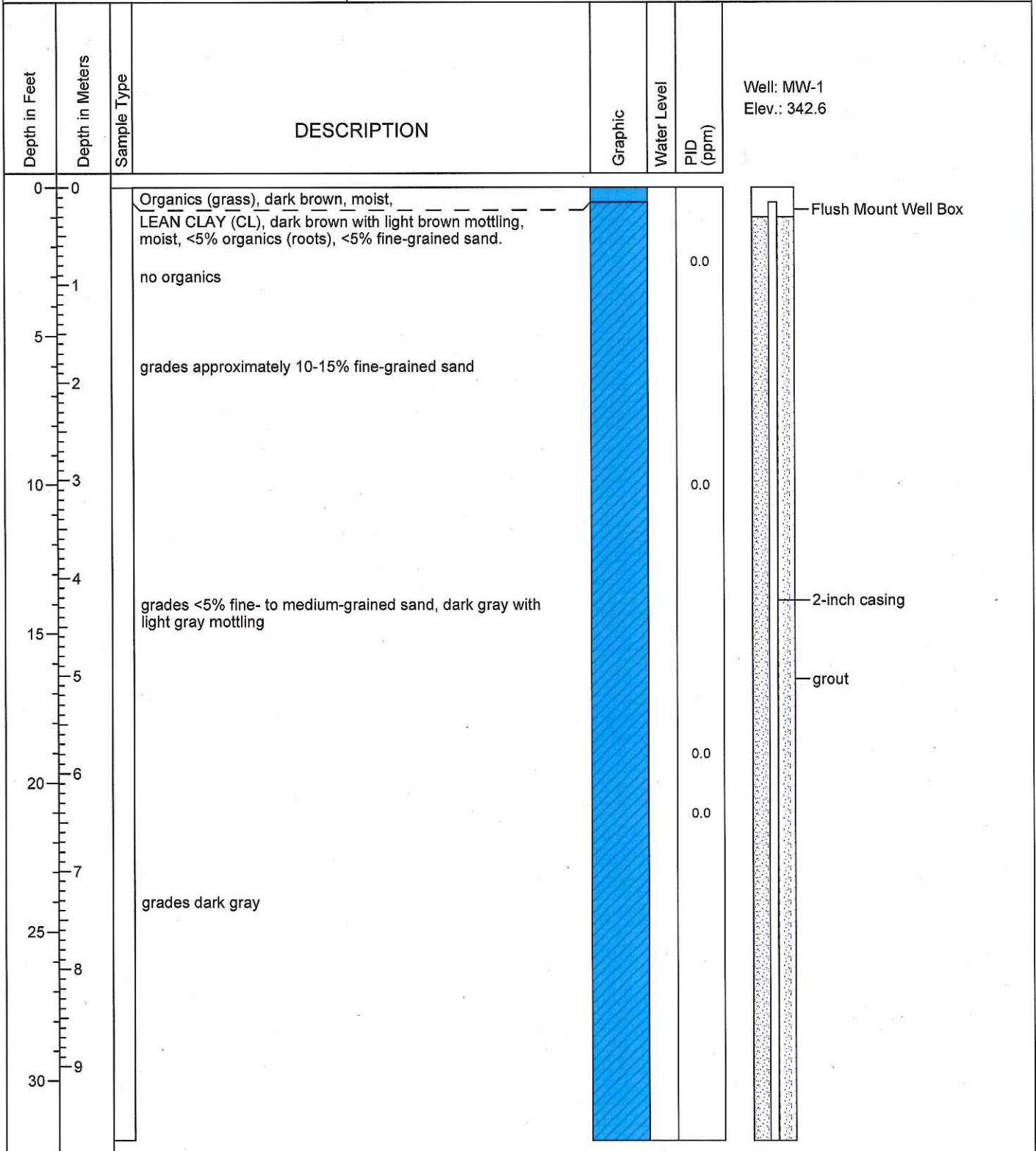
ND - Not detected at or above laboratory reporting limit

NE - Not established

Monitor Well Installation
 Fire Station #3
 Pleasanton, California
 6621.100.120

DATE DRILLED : January 27, 2011
 HOLE DEPTH (FT) : 60
 SUFR ELEV (MSL) : 342.6 Feet
 LATITUDE (NAD83) : 37.692197
 LONGITUDE (NAD83) : -121.878062

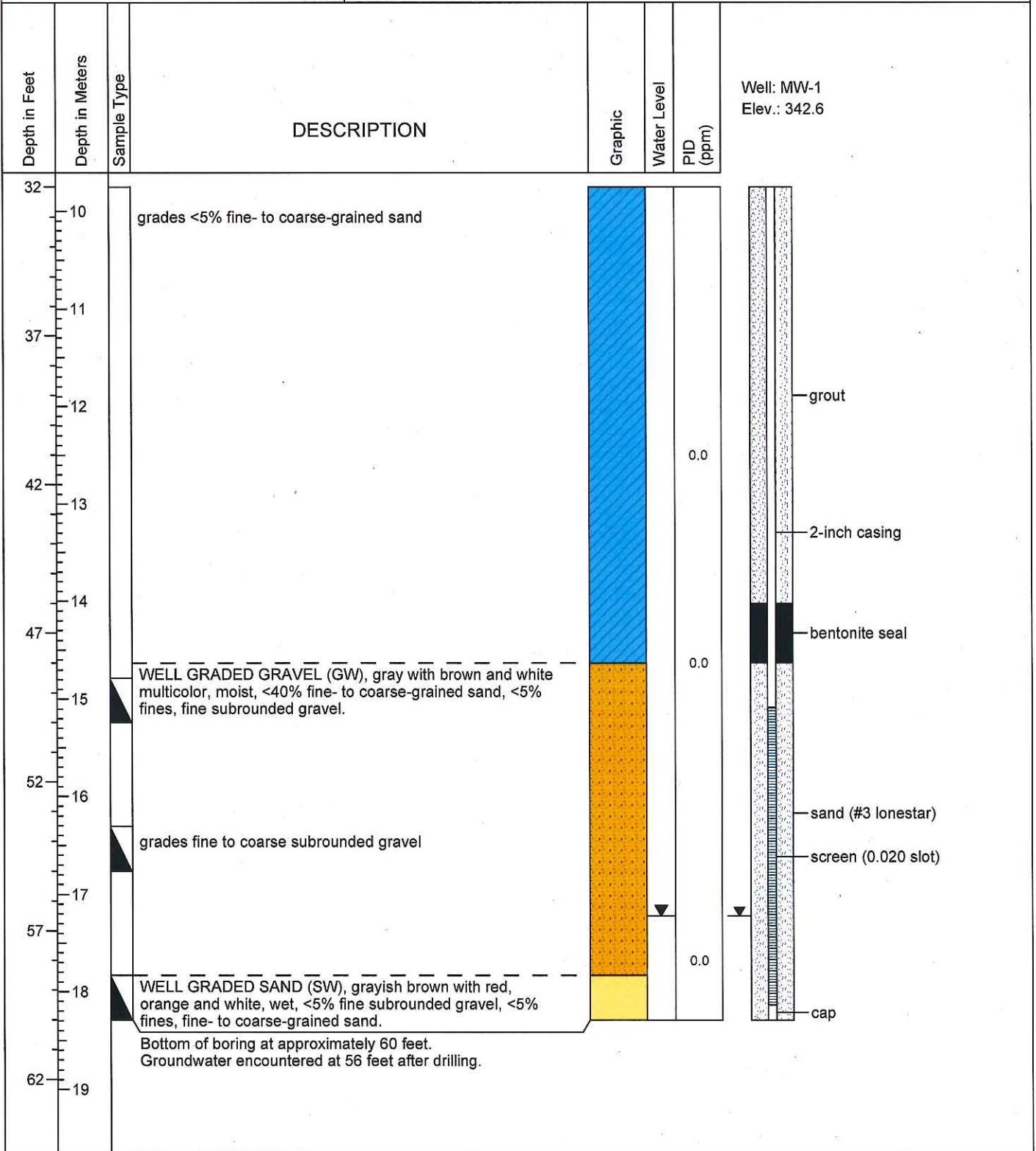
LOGGED/REVIEWED BY : R. Gandolfo/JA
 DRILLING CONTRACTOR: Gregg Drilling
 DRILLING METHOD : Hollow Stem
 HAMMER TYPE : Automatic
 HOLE DIAMETER (IN) : 8



Monitor Well Installation
 Fire Station #3
 Pleasanton, California
 6621.100.120

DATE DRILLED : January 27, 2011
 HOLE DEPTH (FT) : 60
 SUFR ELEV (MSL) : 342.6 Feet
 LATITUDE (NAD83) : 37.692197
 LONGITUDE (NAD83) : -121.878062

LOGGED/REVIEWED BY : R. Gandolfo/JA
 DRILLING CONTRACTOR: Gregg Drilling
 DRILLING METHOD : Hollow Stem
 HAMMER TYPE : Automatic
 HOLE DIAMETER (IN) : 8



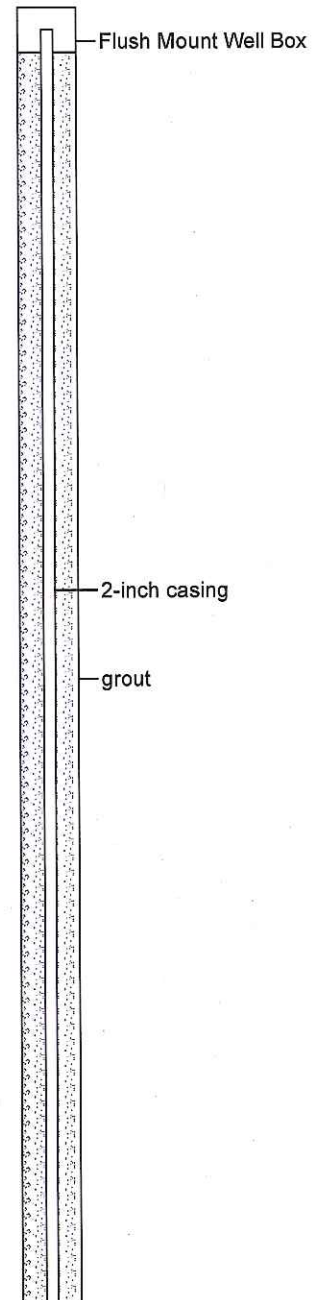
Monitor Well Installation
Fire Station #3
Pleasanton, California
6621.100.120

DATE DRILLED : January 26, 2011
HOLE DEPTH (FT) : 75
SUFR ELEV (MSL) : 342.7 Feet
LATITUDE (NAD83) : 37.692355
LONGITUDE (NAD83) : -121.877847

LOGGED/REVIEWED BY : R. Gandolfo/JA
DRILLING CONTRACTOR: Gregg Drilling
DRILLING METHOD : Hollow Stem
HAMMER TYPE : Automatic
HOLE DIAMETER (IN) : 8

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Graphic	Water Level	PID (ppm)
0	0		Concrete (approximately 8 inches)			
			Aggregate Base (approximately 7 inches)			
			LEAN CLAY (CL), dark brown with light brown mottling, moist,		0.0	
1						
5			grades to <5% fine-grained sand		0.0	
2						
10	3					
4						
15	5		POORLY GRADED SAND (SP), grayish brown, moist, fine-graded sand, <20% fines.		0.0	
5						
20	6		LEAN CLAY (CL), dark brown with gray, moist, <5% fine-grained sand		0.0	
6						
7						
25	8		grades <5% coarse-grained sand		0.0	
8						

Well: MW-2
Elev.: 342.7



Monitor Well Installation
Fire Station #3
Pleasanton, California
6621.100.120

DATE DRILLED : January 26, 2011
HOLE DEPTH (FT) : 75
SUFR ELEV (MSL) : 342.7 Feet
LATITUDE (NAD83) : 37.692355
LONGITUDE (NAD83) : -121.877847

LOGGED/REVIEWED BY : R. Gandolfo/JA
DRILLING CONTRACTOR: Gregg Drilling
DRILLING METHOD : Hollow Stem
HAMMER TYPE : Automatic
HOLE DIAMETER (IN) : 8

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Graphic	Water Level	PID (ppm)	
29	9		grades to no sand				<p>Well: MW-2 Elev.: 342.7</p> <p>2-inch casing grout</p>
34	10				0.0		
39	11				0.0		
39	12		grades <10% fine- to coarse-grained sand		0.0		
44	13						
44	14						
49	15						
49	15		grades approximately 25% fine to medium subangular gravel, fine- to medium-grained sand				
54	16						
54	17		POORLY GRADED GRAVEL (GP), gray and brown, moist to wet, fine- to medium-graded sand, < 5% fines, fine to medium subangular gravel			0.0	

Monitor Well Installation
Fire Station #3
Pleasanton, California
6621.100.120

DATE DRILLED : January 26, 2011
HOLE DEPTH (FT) : 75
SUFR ELEV (MSL) : 342.7 Feet
LATITUDE (NAD83) : 37.692355
LONGITUDE (NAD83) : -121.877847

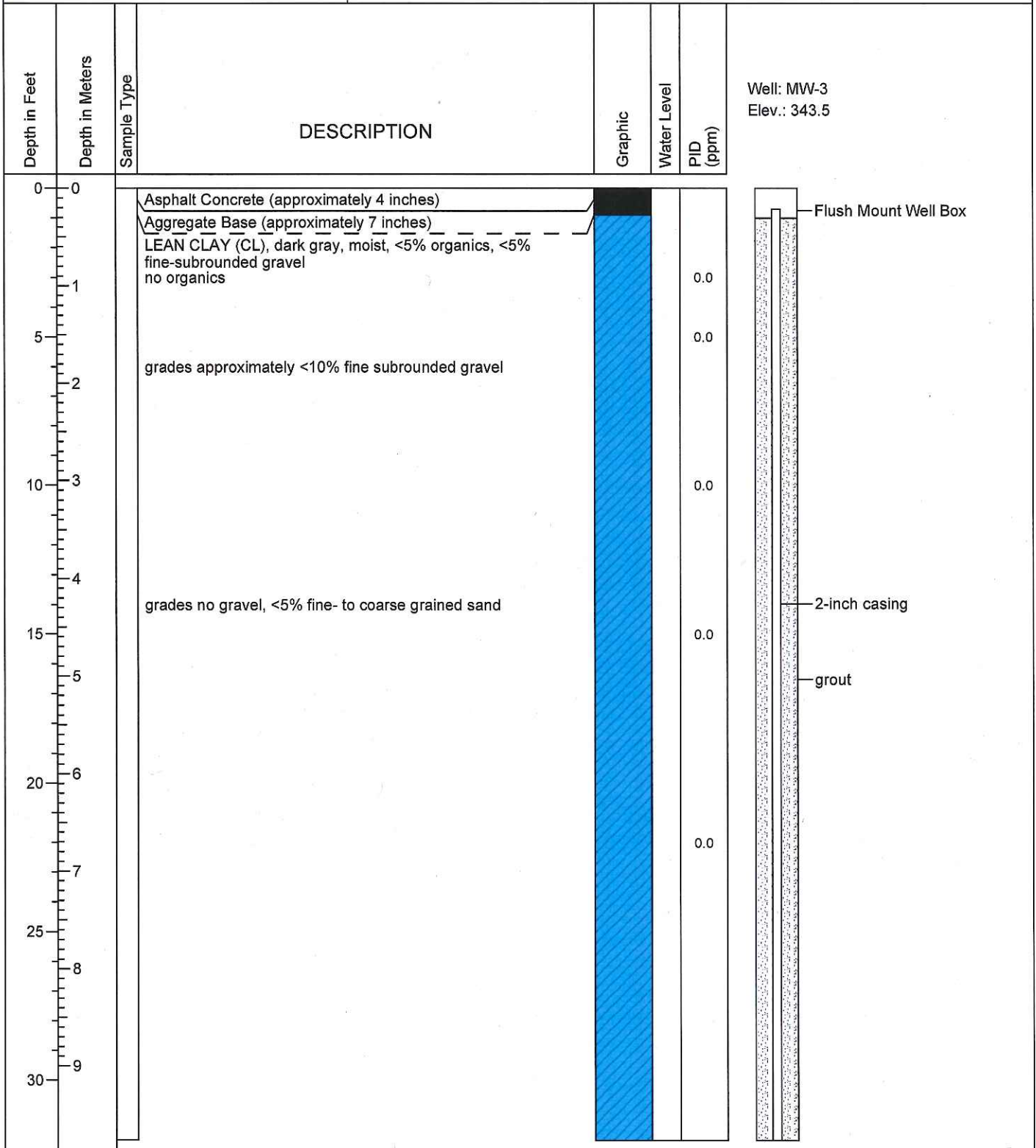
LOGGED/REVIEWED BY : R. Gandolfo/JA
DRILLING CONTRACTOR: Gregg Drilling
DRILLING METHOD : Hollow Stem
HAMMER TYPE : Automatic
HOLE DIAMETER (IN) : 8

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Graphic	Water Level	PID (ppm)	
58	18						<p>Well: MW-2 Elev.: 342.7</p> <p>grout bentonite seal 2-inch casing sand (#3 lonestar) screen (0.020 slot) cap</p>
63	19				0.0		
68	20				0.0		
73	21				0.0		
78	22				0.0		
83	23				0.0		
	24						
	25						
	26						
			<p>Bottom of boring at approximately 75 feet. Groundwater measured at 62 feet after drilling.</p>				

Monitor Well Installation
Fire Station #3
Pleasanton, California
6621.100.120

DATE DRILLED : January 26-27, 2011
HOLE DEPTH (FT) : 60
SUFR ELEV (MSL) : 343.5 Feet
LATITUDE (NAD83) : 37.692252
LONGITUDE (NAD83) : -121.877629

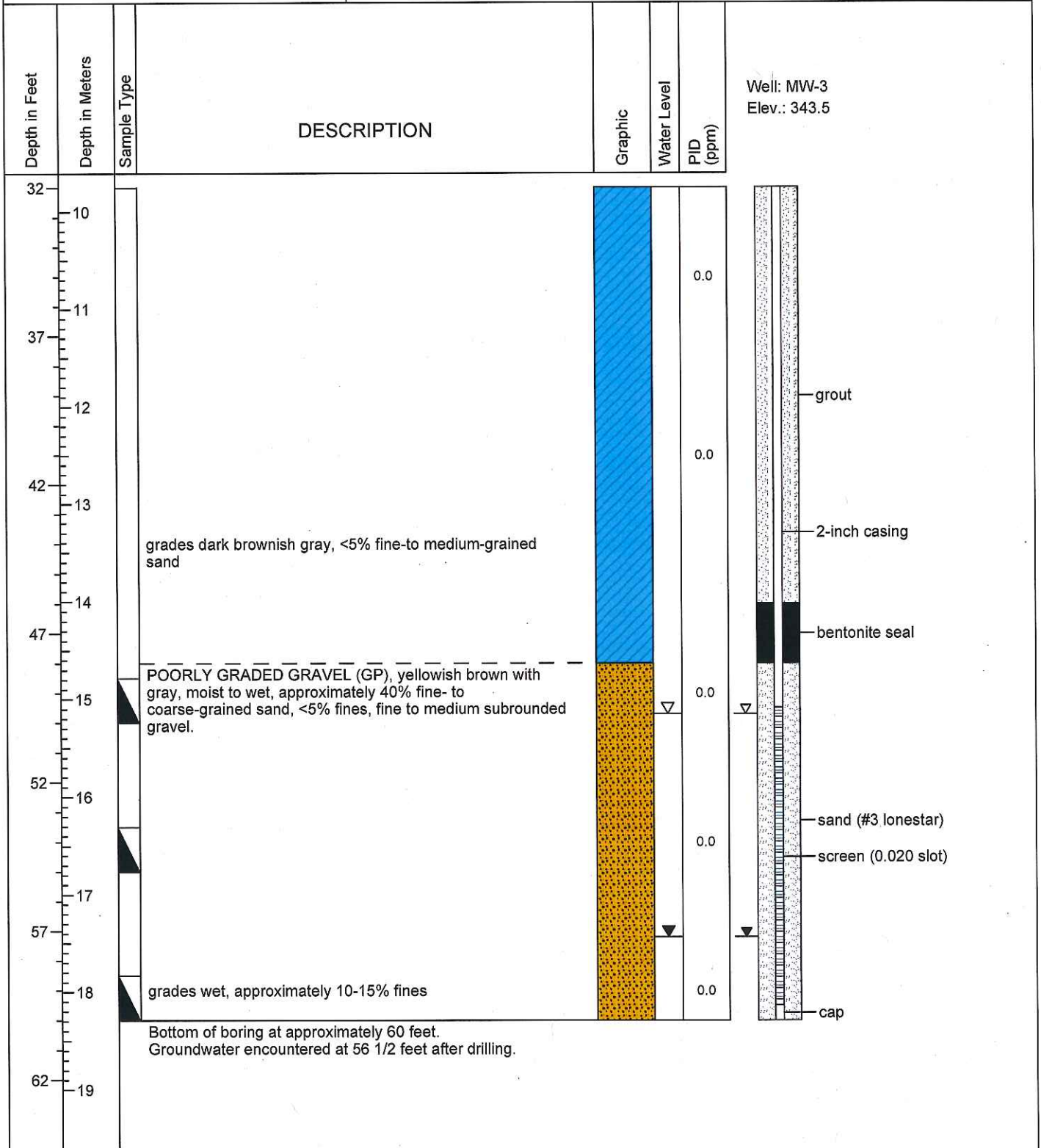
LOGGED/REVIEWED BY : R. Gandolfo/JA
DRILLING CONTRACTOR: Gregg Drilling
DRILLING METHOD : Hollow Stem
HAMMER TYPE : Automatic
HOLE DIAMETER (IN) : 8



Monitor Well Installation
Fire Station #3
Pleasanton, California
6621.100.120

DATE DRILLED : January 26-27, 2011
HOLE DEPTH (FT) : 60
SUFR ELEV (MSL) : 343.5 Feet
LATITUDE (NAD83) : 37.692252
LONGITUDE (NAD83) : -121.877629

LOGGED/REVIEWED BY : R. Gandolfo/JA
DRILLING CONTRACTOR: Gregg Drilling
DRILLING METHOD : Hollow Stem
HAMMER TYPE : Automatic
HOLE DIAMETER (IN) : 8



Date Completed: 3/9/09

Drilling method: Direct Push, Geoprobe 6600

Logged By: N. Berner

Driller: Enprob

Total Depth: 60.0 ft

Hammer Wt: None

Notes: Dry Gravel

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1				0		GRAVEL (GP) -		
2								
3								
4				0				
5								
6								
7								
8				0				
9								
10								
11								
12	SB-1-12	⊗		100	27.6		SILTY CLAY (CL) - gray, moist, medium stiff, low plasticity, discoloration, slight petroleum odor	
13								
14					33.5			
15								
16	SB-1-16	⊗			22.8			
17					<10	- dark grayish-brown, stiff, no odor/discoloration		
18				100	<10			
19					<10			
20					<10	- mottling, very stiff, low plasticity, no odor/discoloration		
21					<10			
22				100				
23								
24					1.7	CLAYEY SILT (ML) - gray, moist, soft, medium plasticity, no odor		
25								

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PROJECT NO. 84855

LOG OF BORING NO. SB-1

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

B-1

6/30/2009 12:52:46 PM

Date Completed: 3/9/09

Drilling method: Direct Push, Geoprobe 6600

Logged By: N. Berner

Driller: Enprob

Total Depth: 60.0 ft

Hammer Wt: None

Notes: Dry Gravel

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks	
26				100	0.0		SILTY CLAY (CL) - grayish-brown, moist, medium stiff, medium plasticity, mottling		
27									
28					0.0				
29									
30				100					
31					0.0				
32								- dark brown	
33									
34				100					
35									
36				100					
37									
38									
39							CLAY (CL) - gray, moist, soft, low plasticity, with fine gravel		
40				100			SILTY CLAY (CL) - dark brown, mottling, moist, medium stiff, medium plasticity		
41									
42									
43								▼ 11:15	
44				100					
45									
46							CLAYEY SILT (ML) - dark brown, mottling, moist, medium stiff, low plasticity		
47									
48				60			POORLY GRADED FINE GRAVEL (GM) - brown, moist, loose, with 50% sand and silt, poorly sorted gravel		
49									
50									

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PROJECT NO. 84855

LOG OF BORING NO. SB-1

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

B-1

6/30/2009 12:52:46 PM

Date Completed: 3/9/09 Drilling method: Direct Push, Geoprobe 6600
 Logged By: N. Berner Driller: Enprob
 Total Depth: 60.0 ft Hammer Wt: None
 Notes: Dry Gravel

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks	
51							POORLY GRADED FINE GRAVEL (GM) - continued		
52				80					
53									
54									
55	SB-1-WD	⊗							10:52 ∇
56				80					
57									
58									
59									
60									
61								Boring halted at approx. 40 feet below ground surface (bgs). Groundwater was not observed in the borehole and shallow groundwater sample could not be collected. Boring was advanced to 60 feet bgs. Geoprobe tool was pulled back approx. 4 feet and groundwater accumulated in the borehole to the level indicated. Backfilled with neat cement grout.	
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									

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PROJECT NO. 84855

LOG OF BORING NO. SB-1

PLEASANTON FIREHOUSE #3
 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

PLATE

B-1

6/30/2009 12:52:46 PM

Date Completed: 3/10/09 Drilling method: Direct Push, Geoprobe 6600
 Logged By: N. Berner Driller: Enprob
 Total Depth: 40.0 ft Hammer Wt: None
 Notes: Pavement

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1				50	0.0		ASPHALT CONCRETE - approximately 2-inches thick	
2					0.0		AGGREGATE BASEROCK - approximately 4-inches thick	
3					0.0		SILTY CLAY (CL) - dark brown, moist, medium stiff, medium plasticity	
4				80	0.0			
5					0.0			
6					0.0			
7					0.0		CLAY (CL) - brown, moist, medium stiff, medium plasticity, brick fragments	
8	SB-2-8	⊗		80	0.0		SILTY CLAY (CL) - dark brown, moist	
9								
10							SANDY SILT (MS) - brown, moist, soft, medium plasticity, fine sand	
11								
12	SB-2-12	⊗						
13					0.0		SILTY SAND (SM) - dark brown, moist, medium dense, fine sand	
14							SILTY CLAY (CL) - gray, moist, mottling, medium stiff, low plasticity	
15					0.0			
16					0.0			
17					0.0			
18					0.0			
19					0.0			
20					0.0			
21					0.0			
22					0.0			
23					0.0			
24					0.0			
25					0.0			

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PROJECT NO. 84855

LOG OF BORING NO. SB-2

PLEASANTON FIREHOUSE #3
 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

PLATE

B-2

6/30/2009 12:52:47 PM

Date Completed: 3/10/09 Drilling method: Direct Push, Geoprobe 6600
 Logged By: N. Berner Driller: Enprob
 Total Depth: 40.0 ft Hammer Wt: None
 Notes: Pavement

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
26					0.0		SILTY CLAY (CL) - continued	
27							SILTY SAND (SM) - dark brown, moist, loose, fine grained sand	
28					0.0		SILTY CLAY (CL) - brown, mottling, moist, medium stiff, medium plasticity	
29								
30					0.0			
31								
32					0.0		- stiff, low plasticity	
33								15:00 ▽
34					0.0			
35								
36					0.0			
37								
38					0.0			
39								
40	SB-2-40	⊗			0.0			
41							Boring halted at approx. 40 feet bgs and left open overnight to obtain a groundwater sample. Groundwater was not observed in the borehole.	
42							Boring was advanced to 60 feet bgs without logging. Geoprobe tool was pulled back approx. 4 feet and groundwater accumulated in the borehole to the level indicated.	
43							Backfilled with neat cement grout.	
44								
45								
46								
47								
48								
49								
50								

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PROJECT NO. 84855

LOG OF BORING NO. SB-2

PLEASANTON FIREHOUSE #3
 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

PLATE

B-2

6/30/2009 12:52:47 PM

Date Completed: 3/9/09 Drilling method: Direct Push, Geoprobe 6600
 Logged By: N. Berner Driller: Enprob
 Total Depth: 40.0 ft Hammer Wt: None
 Notes: Pavement

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1				60			ASPHALT CONCRETE - approximately 2-inches thick	
2							AGGREGATE BASEROCK - approximately 4-inches thick	
3							SILTY CLAY (CL) - dark brown, moist, medium stiff, low plasticity	
4				60				
5							SILTY SAND (SM) - brown, moist, loose, fine sand	
6								
7								
8	SB-3-8	⊗						
9								
10							SANDY CLAY (CL) - brown, moist, stiff, low plasticity	
11							SILTY SAND (SM) - brown, moist, loose, fine sand	
12	SB-3-12	⊗					SILTY CLAY (CL) - grayish-brown, mottling, moist, medium stiff, low plasticity	
13								
14								
15								
16								
17								
18							- stiff	
19								
20								
21								
22								
23								
24								
25							- brown, medium stiff, medium plasticity	

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PROJECT NO. 84855

LOG OF BORING NO. SB-3

PLEASANTON FIREHOUSE #3
 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

PLATE

B-3

6/30/2009 12:52:47 PM

Date Completed: 3/9/09

Drilling method: Direct Push, Geoprobe 6600

Logged By: N. Berner

Driller: Enprob

Total Depth: 40.0 ft

Hammer Wt: None

Notes: Pavement

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
26						Hatched pattern	SILTY CLAY (CL) - continued	
27							- mottling	
28								
29								
30								
31								
32							SILTY CLAY (CL) - brown, mottling, moist, stiff, low plasticity	
33								
34								
35								
36							SILTY SAND (SM) - dark brown, moist, loose, fine grained sand	
37								
38								
39								
40	SB-3-40	X						
41							Boring halted at approx. 40 feet bgs and left open overnight to obtain a groundwater sample. Groundwater was not observed in the borehole.	
42							Backfilled with neat cement grout.	
43								
44								
45								
46								
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49								
50								

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PROJECT NO. 84855

LOG OF BORING NO. SB-3

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

B-3

6/30/2009 12:52:47 PM

Date Completed: 3/10/09

Drilling method: Direct Push, Geoprobe 6600

Logged By: N. Berner

Driller: Enprob

Total Depth: 40.0 ft

Hammer Wt: None

Notes: Pavement

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1					0.0		ASPHALT CONCRETE - approximately 2-inches thick	
2							AGGREGATE BASEROCK - approximately 4-inches thick	
3					0.0		SILTY CLAY (CL) - grayish-brown, moist, medium stiff, low plasticity	
4							SANDY CLAY (CL) - grayish-brown, mottling, moist, soft, medium plasticity, fine grained sand	
5					0.0			
6					0.0			
7					0.0		CLAYEY SAND (ML) - grayish-brown, moist, medium dense, fine grained sand	
8	SB-4-8	⊗						
9					0.0			
10					0.0			
11					0.0			
12	SB-4-12	⊗						
13							CLAY (CL) - gray, moist, medium stiff, low plasticity	
14								
15								
16								
17					0.0		SILTY CLAY (CL) - gray, mottling, moist, stiff, low plasticity	
18					0.0			
19					0.0			
20					0.0			
21					0.0			
22					0.0			
23					0.0			
24					0.0			
25							- brown, mottling, medium stiff, medium plasticity	

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PROJECT NO. 84855

LOG OF BORING NO. SB-4

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

B-4

6/30/2009 12:52:48 PM

Date Completed: 3/10/09 Drilling method: Direct Push, Geoprobe 6600
 Logged By: N. Berner Driller: Enprob
 Total Depth: 40.0 ft Hammer Wt: None
 Notes: Pavement

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
26					0.0		SILTY CLAY (CL) - continued	
27				0.0				
28				0.0				
29				0.0				
30				0.0			- grayish-brown, mottling, stiff, low plasticity	
31				0.0				
32				0.0				
33				0.0				
34				0.0				
35				0.0				
36				0.0				
37								
38							SANDY CLAY (CL) - grayish-brown, mottling, moist, medium stiff, medium plasticity, fine grained sand	
39								
40	SB-4-40	X					Boring halted at approx. 40 feet bgs and left open for approx. 4 hours to obtain a groundwater sample. Groundwater was not observed in the borehole. Boring was advanced to 60 feet bgs without logging. Geoprobe tool was pulled back approx. 4 feet and groundwater accumulated in the borehole to the level indicated. Backfilled with neat cement grout.	
41								
42								
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PROJECT NO. 84855

LOG OF BORING NO. SB-4

PLEASANTON FIREHOUSE #3
 3200 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

PLATE

B-4

6/30/2009 12:52:48 PM

Date Completed: 3/10/09

Drilling method: Direct Push, Geoprobe 6600

Logged By: N. Berner

Driller: Enprob

Total Depth: 40.0 ft

Hammer Wt: None

Notes: Landscaping

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1				60	0.0	[Hatched Pattern]	SANDY CLAY (CL) - dark brown, moist, soft, medium plasticity, fine grained sand	
2					0.0			
3					0.0			
4				60				
5					0.0			
6					0.0			
7					0.0			
8	SB-5-8	⊗		80				
9								
10								
11								[Dotted Pattern]
12	SB-5-12	⊗		100		[Hatched Pattern]	SILTY CLAY (CL) - grayish-brown, mottling, moist, medium stiff, low plasticity	
13								
14								
15								
16				100				
17					0.0			
18								
19					0.0			
20				100				
21					0.0			
22								
23					0.0			
24								
25				100				
						[Hatched Pattern]	SANDY CLAY (CL) - grayish-brown, mottling, moist, stiff,	

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PROJECT NO. 84855

LOG OF BORING NO. SB-5

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

B-5

6/30/2009 12:52:49 PM

Date Completed: 3/10/09

Drilling method: Direct Push, Geoprobe 6600

Logged By: N. Berner

Driller: Enprob

Total Depth: 40.0 ft

Hammer Wt: None

Notes: Landscaping

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
26					0.0	USCS	medium plasticity	
27					0.0		CLAY (CL) - dark brown, mottling, moist, stiff, low plasticity	
28			100	0.0				
29					0.0		SILTY CLAY (CL) - gray, mottling, moist, stiff, low plasticity	
30					0.0			
31					0.0			
32			100		0.0			
33					0.0		- grayish-brown, mottling, stiff, low plasticity	
34					0.0			
35					0.0			
36			100		0.0			
37					0.0			
38					0.0			
39					0.0			
40	SB-5-40	X			0.0			
41							Boring halted at approx. 40 feet bgs and left open for approx. 4 hours to obtain a groundwater sample. Groundwater was not observed in the borehole. Boring was advanced to 60 feet bgs without logging. Geoprobe tool was pulled back approx. 4 feet and groundwater accumulated in the borehole to the level indicated. Backfilled with neat cement grout.	
42								
43								
44								11:23 ▽
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LOG OF BORING NO. SB-5

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE

B-5

PROJECT NO. 84855

6/30/2009 12:52:49 PM

Date Completed: 6/26/07

Drilling method: Direct Push - Geoprobe 5400

Logged By: J. Williams

Fisch Environmental

Total Depth: 28.0 ft

Hammer Wt: None

Notes: Gravel surface

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							SILTY SAND (SM) - dark olive-brown (2.5Y 3/3), moist, loose, poorly graded		
2									
3									
4	SR-1-4			75	0.5		SILTY CLAY (CL) - dark olive-brown (2.5Y 3/3), moist, soft		
5									
6							SILTY SAND with CLAY (SM) - very dark greenish-gray (5GY 3/1), moist, medium dense, poorly graded		
7									
8	SR-1-8			100	0.3		SANDY CLAY (CL) - olive-brown (2.5Y 4/3), wet, soft		
9									
10									
11							FINE SAND (SP) - olive-brown (2.5Y 4/3), moist, loose, poorly graded		
12	SR-1-12			88	0.6		- wet, increasing grain size		
13									
14							MEDIUM SAND (SP) - dark olive-gray, wet, loose, poorly graded		
15									
16	SR-1-16			100	0.0		SILTY CLAY (CL) - very dark gray (5Y 4/1), moist, medium soft		
17									
18									
19							- increasing stiffness		
20				100					
21							CLAY (CH) - dark greenish-gray (10Y 4/1), moist, stiff		
22									
23									
24				100	1.0				
25									
26							CLAY (CL) - very dark grayish-brown (2.5Y 3/2), moist, medium stiff		
27									
28				100	0.0				
29							Refusal at approximately 28 feet below ground surface.		
30							Boring backfilled with neat cement grout.		
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

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LOG OF BORING NO. SR-1

PLATE

KLEINFELDER

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PROJECT NO. 84855

Date Completed: 4/3/08

Drilling method: Direct Push - Geoprobe 6600

Logged By: J. Williams

Vironex

Total Depth: 35.0 ft

Hammer Wt: None

Notes: Concrete surface

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							CONCRETE - 4 inches thick	NO SAMPLE RECOVERY to 10 feet below ground surface	
2							COARSE GRAVEL (GW)- gray (5Y 6/1), dry, loose, well graded		
3									
4									
5									
6									
7									
8									
9									
10									
11							FINE SAND (SP)- olive (5Y 4/3), saturated, loose, poorly graded		
12									
13									
14							CLAY (CL)- very dark gray (5Y 3/1), moist, soft, slight hydrocarbon odor		
15	SR-2--15			100	185		CLAY (CH)- very dark gray (5Y 3/1), moist, stiff		
16									
17							CLAY (CH)- dark olive-gray (5Y 3/2), moist, stiff		
18									
19									
20	SR-2--20			100	0.0				
21									
22									
23									
24									
25	SR-2--25			100	0.0			▽	
26							GRAVEL (GW)- dark olive-gray (5Y 4/2), wet, loose, well graded, grain size decreases with depth		
27									
28									
29							SANDY CLAY (CL)- olive (5Y 4/3), moist, stiff, expansive		
30	SR-2--30			100	0.0		CLAY (CH)- very dark gray (5Y 3/1), moist, very stiff		
31									
32									
33									
34									
35				100	0.0				
36							Boring terminated at approximately 35 feet below ground surface.		
37							Groundwater sample screened from 20 to 30 feet.		
38							Boring backfilled with neat cement grout.		
39									
40									

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KLEINFELDER

PROJECT NO. 84855

LOG OF BORING NO. SR-2

PLEASANTON FIREHOUSE #3
3200 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

PLATE