ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

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

August 17, 2011

Mr. Dean Rubinson (*Sent via E-mail to: dean@ellispartners.com*)
Ellis Partners LLC
111 Sutter Street, Suite 800
San Francisco, CA 94104

Subject: Case Closure for SLIC Case No. RO0003074 and GeoTracker Global ID T10000002920, Britannia Business Center II, 4280 Hacienda Drive, Pleasanton, CA 94588

Dear Mr. Rubinson:

This letter confirms the completion of site investigation and remedial actions for the soil and groundwater investigation at the above referenced site. We are also transmitting the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported releases at the subject site with the provision that the information provided to this agency was accurate and representative of existing conditions. The subject Spills, Leaks, Investigation, and Cleanup (SLIC) 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:

- Residual total petroleum hydrocarbons as hydraulic oil remain in soil beneath the site at concentrations up to 5.6 parts per million (ppm).

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

Sincerely,

Donna L. Drogos, P.E.
LOP and Toxics Program Manager

Enclosure: Case Closure Summary

cc: Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566
(*Sent via E-mail to: dstefani@lpfire.org*)

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

Paul King, P & D Environmental, 55 Santa Clara Avenue, Suite 240, Oakland, CA 94610
(*Sent via E-mail to PDKing0000@aol.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, eFile

CASE CLOSURE SUMMARY
SPILLS, LEAKS, INVESTIGATION, AND CLEANUP PROGRAM

I. AGENCY INFORMATION

Date: August 11, 2011

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: Brittania Business Center II		
Site Facility Address: 4280 Hacienda Drive, Pleasanton, CA 94588		
RB Case No.: ---	STID No.: ---	SLIC Case No.: RO0003074
URF Filing Date: ---	Geotracker ID: T10000002920	APN: 941-2762-18-1

Responsible Parties	Addresses	Phone Numbers
Mr. Dean Rubinson (*E-mail to: dean@ellispartners.com*), Ellis Partners LLC	111 Sutter Street, Suite 800 San Francisco, CA 94104	415-391-9800
---	---	---

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
No tanks. Leak occurred from a failed elevator jack	An estimated 50 to 60 gallons of hydraulic fluid was lost	Hydraulic Fluid	The elevator jack was repaired	The lead occurred sometime between January 2009 and May 2010
Piping			---	---

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: In May 2010, the maintenance company for the elevators found the hydraulic fluid reservoir for one of the three elevators at the Brtttania Business Center II to be empty. On January 18, 2011, the failed hydraulic jack was removed from the elevator pit. A hole was identified in the hydraulic jack casing at the bottom of the hydraulic jack casing. A hole was observed in the PVC casing around the hydraulic jack casing at a depth of approximately 16.5 feet below the top of the PVC casing. The top of the PVC casing was approximately 4 inches below the top of the elevator pit floor.	
Site characterization complete? Yes	Date Approved By Oversight Agency: -----

Monitoring wells installed? Ye s	Number: 4	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: Approximately 8 feet bgs	Lowest Depth: Approximately 16 feet below ground surface	Flow Direction: Regional data indicates that groundwater flow direction is towards the south.
Most Sensitive Current Use: Drinking Water Source		

Summary of Production Wells in Vicinity: Based on review of data from surrounding sites, no water supply wells appear to be located within 1,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: Dublin Subbasin of Livermore-Amador Basin
Is surface water affected? No	Nearest SW Name: Arroyo Mocho is approximately 2,500 feet south of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
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	---	---	---
Piping	---	---	---
Free Product	Estimated 25 gallons	An estimated 25 gallons of hydraulic fluid was contained in the sandy material removed from the inside of the PVC casing	January 19, 2011
Soil	One drum of soil from soil borings 12 cubic yards of soil generated during removal of materials from the inside of the PVC casing	The drum of soil was transported to Alviso Independent Oil in Alviso, CA for off-site disposal. The soil was transported to Nevada Thermal Thermal Services for off-site disposal.	May 20, 2011 July 20, 2011
Groundwater	One drum of groundwater from soil borings 2,470 gallons of oily water	The drum of groundwater was transported to Alviso Independent Oil in Alviso, CA for off-site disposal. The oily water was transported to Altamont Landfill in Livermore, CA for off-site disposal.	May 20, 2011 July 19, 2011

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 1 through 5 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	NA	NA	NA	NA
TPH (Diesel)	NA	NA	NA	NA
TPH (Bunker Oil)	3,000	2.3	<100	<100
TPH (Hydraulic Oil)	3,600	5.6	<250	<250
Benzene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA
Xylenes	NA	NA	NA	NA
Metals	NA	NA	NA	NA
MTBE and Other Oxygenates	NA	NA	NA	NA
VOCs or SVOCs (8260 or 8270)	NA	NA	NA	NA

NA = Not Analyzed

Site History and Description of Corrective Actions:

This case is related to the failure of hydraulic jack for one of three elevators located within an office building at 4280 Hacienda Drive in Pleasanton, CA. Surrounding land use is commercial.

Between January 2009 and May 2010, the building was vacant and there was no known use of the elevator. In May 2010, the subject elevator was found to not be working, the hydraulic fluid reservoir was empty, and the hydraulic system could not be pressurized. On January 18, 2011, the failed hydraulic jack (consisting a piston and associated 6-inch outside diameter steel hydraulic jack casing measuring approximately 15 feet in length) was removed from the elevator pit. The elevator pit floor is four feet below the building first floor level. The hydraulic jack was suspended in a 14.5-inch inside diameter PVC casing with fined grained sand present in the annular space between the hydraulic jack casing and the PVC casing. On January 19, 2001, the fined–grained sand and associated fluids (water and hydraulic fluid) were removed from inside the PVC casing to a depth of approximately 16 feet below the top of the PVC casing. Sand and oily fluid were present in the bottom of the PVC casing. Based on a letter from the elevator vendor dated March 3, 2011, the estimated volume of hydraulic fluid lost form the hydraulic jack system is approximately 50 to 60 gallons.

On January 20, 2011, the fluid and remaining sand were vacuumed from the PVC casing interior to a depth of 16 feet 5 inches below the top of the PVC casing and the bottom of the PVC casing was visually inspected. A flat PVC cap was observed at the bottom of the PVC casing, and a round hole was observed approximately one to two inches above the top of the PVC casing.

On February 13, 2011, one exploratory boring (B1) was advanced in the elevator pit immediately adjacent to the south-southwest side of the PVC casing. The boring was advanced to a depth of 19.5 feet below the elevator pit floor. Petroleum sheen was observed in continuous core beginning at a depth of 13 feet below the top of the elevator floor (approximately 2.5 feet below the depth at which groundwater was first encountered during drilling), and soil saturated with hydraulic fluid was encountered between the depths of 13.5 and 19.0 feet below the top of the elevator floor. The hole observed near the bottom of the PVC casing is at a depth of approximately 16.7 feet below the elevator pit floor. The color and odor of the oil in the soil core was similar to the hydraulic fluid previously removed from the interior of the PVC casing. The soil encountered in the boring consisted predominantly of medium stiff clay.

On March 29 and 31, 2011, borings B2 through B5 were advanced inside the building surrounding the elevator pit to define the extent of contamination. Borings B2 through B5 were drilled to depths of 24 to 30 feet bgs. Soil samples were screened and logged for evidence of contamination and one soil sample was retained for laboratory analysis from a depth of 20.0 feet bgs in each boring. The sample depth of 20 feet bgs corresponds approximately with the depth of the bottom of the PVC casing. Total petroleum hydrocarbons as bunker oil (TPHbo) and hydraulic oil (TPHho) were not detected in soil samples from borings B3, B4, and B5. The soil sample from B2 contained 2.3 ppm of TPHbo and 5.6 ppm of TPHho. Temporary wells were installed in each of the borings to collect grab groundwater samples. TPHbo and TPHho were not detected in the grab groundwater samples at concentrations exceeding the reporting limits of 100 ppb for TPHbo and 250 ppb for TPHho.

A large diameter boring was advanced to remove the contaminated soil in the area of the hydraulic jack casing. On June 20, 2011, a 14-inch diameter auger was used to drill through the bottom cap of the 15-inch PVC casing to a depth of 19.0 feet below the elevator pit floor. The PVC casing was removed and the borehole was enlarged. On June 24, 2011, a 37-inch diameter borehole was advanced to a depth of 22 feet below the elevator pit floor and a 12-foot long 36-inch diameter steel casing was pushed to a depth of 17.5 feet below the elevator pit floor. The borehole was grouted to ground surface with the steel casing remaining in place. A 15-icnh diameter PVC casing was placed in the borehole to a depth of approximately 18.5 feet below the elevator pit floor to house a future elevator hydraulic jack.

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, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: None.		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 4	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: ---		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

None

Conclusion:

Alameda County Environmental Health (ACEH) staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature:	Date: 08/17/11
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature:	Date: 08/17/11

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: 08/17/11	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: NA	Number Decommissioned: 0	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: Jerry Wickham		Date: 08/17/11

Attachments:
1. Regional Location Map and Satellite Image (2 pages)
2. Foundation Plan and Site Map (2 pages)
3. Soil Analytical Data (2 pages)
4. Groundwater Analytical Data (1 page)
5. Soil Boring Logs (5 pages)

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.

Wickham, Jerry, Env. Health

From: Cherie MCcaulou [CMccaulou@waterboards.ca.gov]
Sent: Wednesday, August 17, 2011 12:24 PM
To: Wickham, Jerry, Env. Health
Subject: Re: Pending closure for RO3074, 4280 Hacienda Drive, Pleasanton

Jerry - Thank your for your notification that ACEH is closing this case. The Regional Board staff has no objection to the case closure for petroleum releases at 4280 Hacienda Drive, Pleasanton, Alameda County.

Sincerely,

Cherie McCaulou
Engineering Geologist
San Francisco Bay Regional Water Quality Control Board
cmccaulou@waterboards.ca.gov
510-622-2342

>>> "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org> 8/17/2011 12:01 PM >>>
Hi Cherie,

This email provides notification of pending closure for case RO3074, 4280 Hacienda Drive, Pleasanton.

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

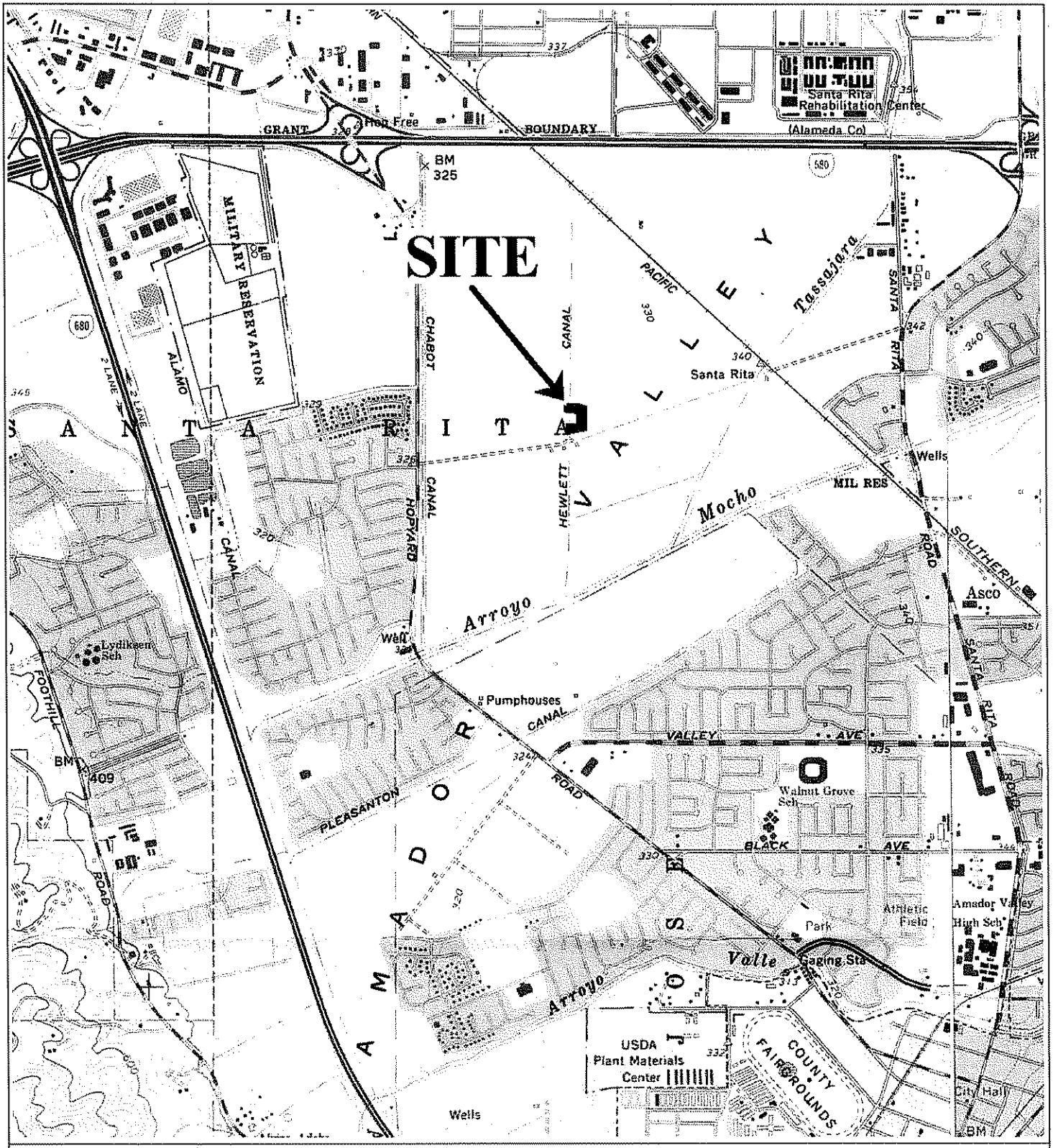

Figure 1
Site Location Map
4280 Hacienda Drive
Pleasanton, California

Base Map From:
U.S.Geological Survey 7.5 Minute Quadrangles
Dublin, California, and Livermore, California
Topomap Photorevised 1980,

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 1,000 2,000
SCALE IN FEET

ATTACHMENT 1

4280 hacieda drive, pleasanton, CA

	4280 Hacienda Dr, Pleasanton, CA 94588	

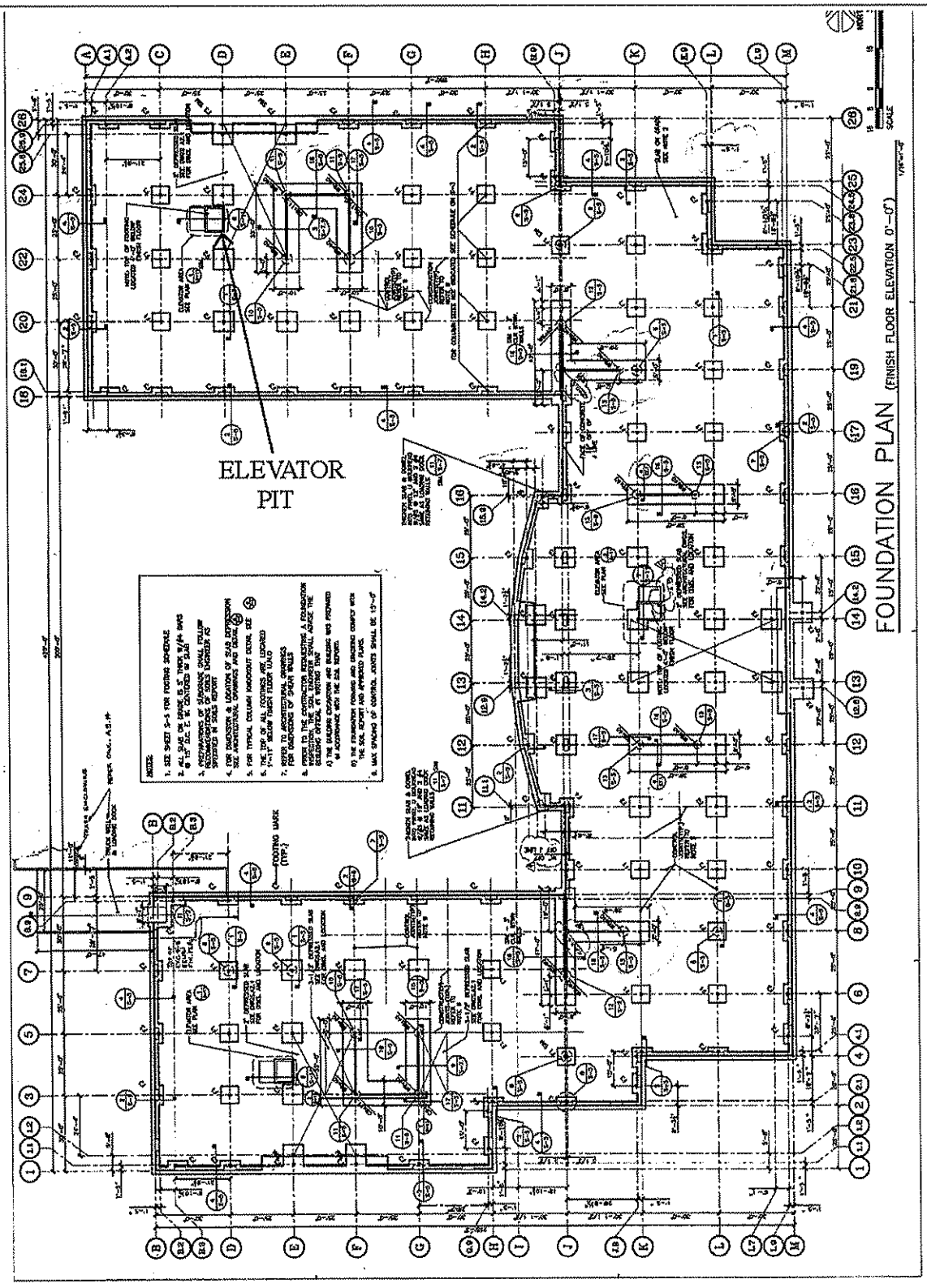

Figure 3
Foundation Plan
4280 Hacienda Drive
Pleasanton, California

N

Base Map From: Hallenbeck, Chamorro & Associates, Brittania Business Center, Hacienda Business Park Foundation Plan Dated 12/9/92	P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610	0 30 60 APPROXIMATE SCALE IN FEET

ATTACHMENT 2

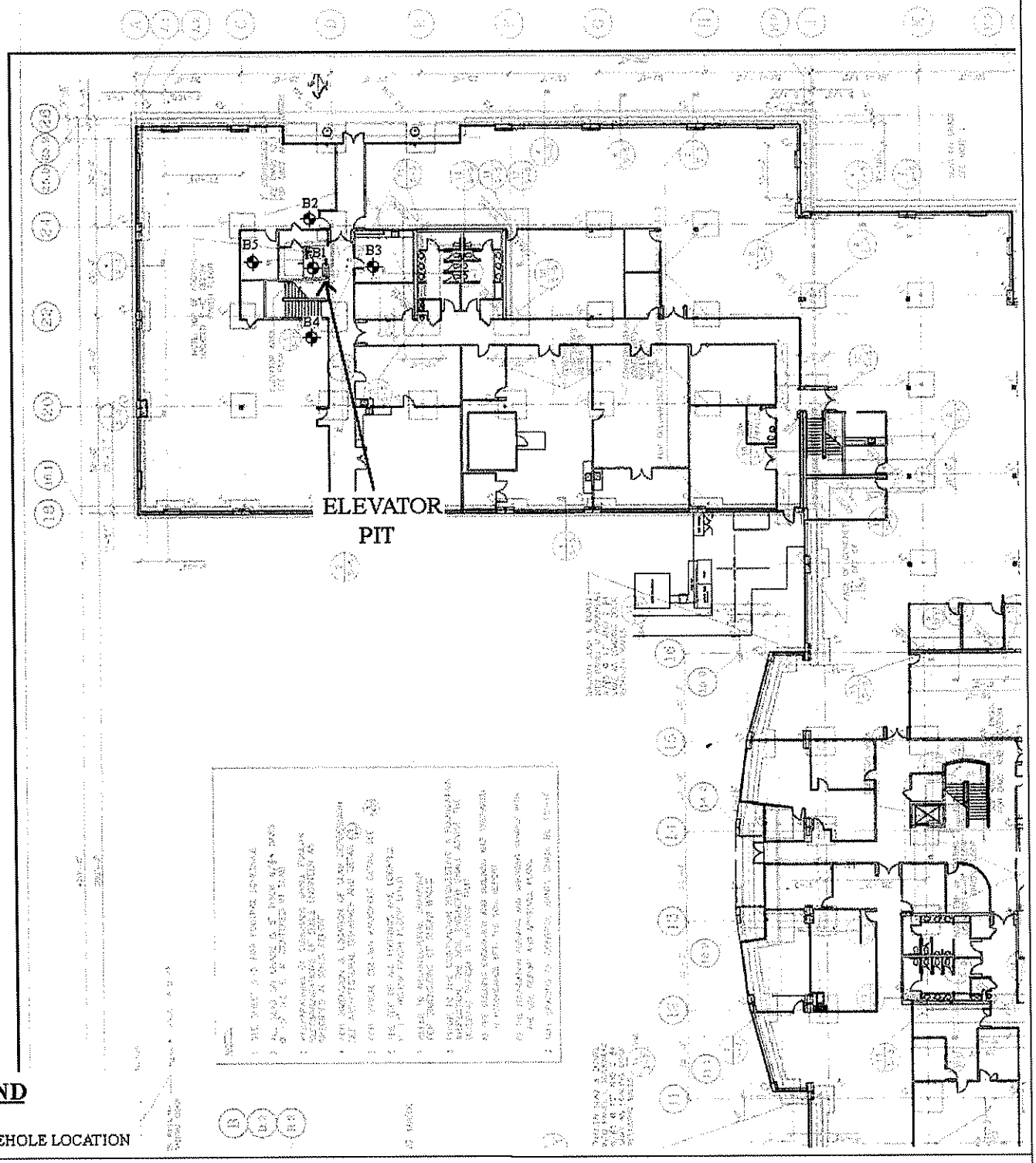

Figure 4
Site Plan Detail
4280 Hacienda Drive
Pleasanton, California

N

Base Map From:
Hallenbeck, Chamorro & Associates,
Brittania Business Center, Hacienda
Business Park Foundation Plan
Dated 12/9/92

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 20 40
APPROXIMATE SCALE IN FEET

TABLE 2

Summary of Soil Sample Analytical Results

Date Sampled	Sample ID	TPH-BO	TPH-HO
3/29/2011	B2-20	2.3, a	5.6, a
3/31/2011	B3-20	ND<2.0	ND<5.0
3/31/2011	B4-20	ND<2.0	ND<5.0
3/29/2011	B5-20	ND<2.0	ND<5.0
ESL		*5,000*	*5,000*

NOTES

TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
TPH-HO = Total Petroleum Hydrocarbons as Hydraulic Oil.
ND = Not Detected.
a = Laboratory Note: contains oil range compounds.
ESL = Environmental Screening Level, developed by San Francisco Bay-Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table C-Deep Soils, Commercial/Industrial Land Use.
Results in BOLD indicate a detected concentration that exceeds the respective ESL value.
Results are in milligrams per kilogram (mg/kg) unless otherwise noted.

ATTACHMENT 3

McCampbell Analytical, Inc.
"When Quality Counts"

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

P & D Environmental	Client Project ID: #0523; 4280 Hacienda Dr., Pleasanton, CA	Date Sampled:	02/03/11
		Date Received:	02/04/11
55 Santa Clara, Ste.240	Client Contact: Michael Deschenes	Date Extracted:	02/14/11
Oakland, CA 94610	Client P.O.:	Date Analyzed:	02/15/11-02/16/11

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550B/3630C Analytical methods: SW8015B Work Order: 1102171

Lab ID	Client ID	Matrix	TPH-Bunker Oil (C10-C36)	TPH-Hydraulic Oil (C18-C36)	DF	% SS	Comments
1102171-001A	B1-1.0	S	2000	2400	50	112	e7,e2
1102171-002A	B1-9.5	S	3000	3600	50	113	e7,e2
1102171-003A	B1-19.0	S	13	18	1	116	e7,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	2.0	5.0	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.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

TABLE 3

Summary of Groundwater Sample Analytical Results

Date Sampled	Sample ID	TPH-BO	TPH-HO
4/11/2011	B2	ND<100	ND<250
4/11/2011	B3	ND<100	ND<250
4/11/2011	B4	ND<100	ND<250
4/11/2011	B5	ND<100	ND<250
ESL		*100*	*100*

NOTES

TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
TPH-HO = Total Petroleum Hydrocarbons as Hydraulic Oil.
ND = Not Detected.
a = Laboratory Note: contains oil range compounds.
ESL = Environmental Screening Level, developed by San Francisco Bay-Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table C-Deep Soils, Commercial/Industrial Land Use.
Results in BOLD indicate a detected concentration that exceeds the respective ESL value.
Results are in micrograms per Liter (ug/L) unless otherwise noted.

ATTACHMENT 4

P&D ENVIRONMENTAL, INC.

BORING NO.: B1	PROJECT NO.: 0523	PROJECT NAME: 4280 Hacienda Drive, Pleasanton	
BORING LOCATION: In Elevator Pit at Southwest corner of PVC Hydraulic jack casing			ELEVATION AND DATUM: None
DRILLING AGENCY: K.M. McRae, Inc.	DRILLER: Matt	DATE & TIME STARTED: 2/3/11 1030	DATE & TIME FINISHED: 6/21/11 through 6/27/11
DRILLING EQUIPMENT: Rail-Mounted Hollow Stem Auger Rig			
COMPLETION DEPTH: 19.5 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLD	CHECKED BY: PHK
FIRST WATER DEPTH: 11.0 Feet	NO. OF SAMPLES: 3 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Brown fine silty sand (FILL); with some angular gravel to 0.5-inch diameter.	FILL		No Well Constructed		Borehole drilled in elevator pit. Elevator pit is 4.0 ft. below first floor grade. Depth of 0.0 ft. is top of elevator pit floor. Borehole drilled from 0.0 to 18.0 ft. using a rail-mounted 6.5-inch O.D. Hollow Stem Auger Rig.
		X		B1-1.0	0	
	0.5 to 8.5 ft. Dark Brown clay (OH); soft to medium stiff, moist, with reddish-brown mottling and rootlets. No Petroleum Hydrocarbon (PHC) odor.	OH			0	Soil continuously cored using a 2.0-inch O.D. California modified split spoon sampler pushed by a 1,200 lb. rail-mounted drill rig
5					0	
				▼		
	8.5 to 13.0 ft. Grayish-brown clay (CL); medium stiff, moist. No PHC odor.				0	
		X		B1-9.5 ▽		
10	Wet at 10.5 ft.					First encountered water during drilling at 10.5 ft.
	Saturated at 11.0 ft.					Water level measured in borehole at 8.1 ft. at 1348.
	13.0 to 19.5 ft. Gray clay (CL); soft, saturated, with some angular gravel to 0.25-inch diameter between 14.0 to 17.5 ft. Hydraulic oil visible at 13.0 ft. Saturated with hydraulic oil 13.5 to 19.0 ft..	CL			0	Water level measured from top of adjacent PVC casing at 7.3 ft. at 1420. Top of PVC is 0.3 ft. below top of elevator pit floor.
15						After sample collection to 19.5 ft. depth, hollow stem auger removed from borehole 2/3/11 and borehole collapsed to 15.0 ft. depth.
	Medium stiff at 19.5 ft.	X		B1-19.0	0	
20						Borehole subsequently destroyed during drilling of 36-inch diameter borehole in elevator pit that extended to 22 ft. depth from 6/21/11 through 6/27/11.
25						
30						

ATTACHMENT 5

P&D ENVIRONMENTAL, INC.

BORING NO.: B2	PROJECT NO.: 0523	PROJECT NAME: 4280 Hacienda Drive, Pleasanton	
BORING LOCATION: North of Elevator Pit, approximately 15 feet from B1			ELEVATION AND DATUM: None
DRILLING AGENCY: Vironex	DRILLER: Mike	DATE & TIME STARTED: 3/29/11 0815	DATE & TIME FINISHED: 6/22/11 0835
DRILLING EQUIPMENT: GeoProbe Badger			
COMPLETION DEPTH: 24.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLD	CHECKED BY: PHK
FIRST WATER DEPTH: 21.5 Feet	NO. OF SAMPLES: 1 Soil, 1 Water		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.5 ft. Concrete slab (6-inches) and sandy gravel base (FILL).	FILL		No Well Constructed	0	Borehole hand augered from 0.0 to 3.0 ft using 3.0-inch O.D. hand auger.
5	1.5 to 8.0 ft. Dark gray clay (OH); medium stiff, moist, with rootlets and black mottling. No Petroleum Hydrocarbon (PHC) odor.	OH			0	Borehole continuously cored using a 3.0-foot long 2.0-inch O.D. Geoprobe single wall drill rods containing a Geoprobe Macrocore barrel sampler. The sampler was lined with 2.8-foot long 1.75-inch O.D. transparent PVC tubes.
				▼	0	3-6 ft 2.8 ft recovery 6-9 ft 2.8 ft recovery 9-12 ft 2.8 ft recovery 12-15 ft 2.8 ft recovery 15-18 ft 2.6 ft recovery 18-21 ft 2.8 ft recovery 21-24 ft 2.8 ft recovery
10	8.0 to 13.0 ft. Dark grayish-brown clay (CL); medium stiff, moist, with black mottling. No PHC odor.				0	Temporary 1.0-inch diameter slotted PVC casing with pre-packed filter placed in borehole.
15	13.0 to 16.5 ft. Color change to brown with black mottling.	CL			0	Water level measured at 16.3 ft at 1046 and at 11.3 ft at 1056. Depth to water was subsequently measured at 8.2 ft at 1224.
	16.5 to 24.0 ft. Color change to grayish-brown.					Because the borehole was inside an unoccupied building, the permitting agency allowed the borehole to be left open for the duration of the project, prior to grouting.
	17.0 to 21.0 ft. Some coarse sand and coarse gravel to 0.5-inch diameter.					
20		⊠		B2-20.0	0	
	Wet at 21.0 ft. Saturated at 21.5 ft.			▽		
					0	Borehole grouted on 6/22/11 using a tremie pipe and neat cement grout.
25						Mr. Jeff Jones with Zone 7 Water Agency on site to observe and document grouting of the borehole.
30						

P&D ENVIRONMENTAL, INC.

BORING NO.: B3	PROJECT NO.: 0523	PROJECT NAME: 4280 Hacienda Drive, Pleasanton	
BORING LOCATION: East of Elevator Pit, approximately 17 feet from B1			ELEVATION AND DATUM: None
DRILLING AGENCY: Vironex	DRILLER: Mike	DATE & TIME STARTED: 3/31/11 0820	DATE & TIME FINISHED: 6/22/11 0925
DRILLING EQUIPMENT: GeoProbe Badger			
COMPLETION DEPTH: 27.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLD	CHECKED BY: PHK
FIRST WATER DEPTH: 22.5 Feet	NO. OF SAMPLES: 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.5 ft. Concrete (6-inches) slab and sandy gravel base (FILL).	FILL		No Well Constructed	0	Borehole hand augered from 0.0 to 3.0 ft using 3.0-inch O.D. hand auger.
5	1.5 to 9.0 ft. Dark gray clay (OH); medium stiff, moist, with abundant organic content and black mottling. No Petroleum Hydrocarbon (PHC) odor.	OH			0	Borehole continuously cored using a 3.0-foot long 2.0-inch O.D. Geoprobe single wall drill rods containing a Geoprobe Macrocore barrel sampler. The sampler was lined with 2.8-foot long 1.75-inch O.D. transparent PVC tubes.
					0	3-6 ft 2.8 ft recovery 6-9 ft 2.8 ft recovery 9-12 ft 2.8 ft recovery 12-15 ft 2.6 ft recovery 15-18 ft 2.8 ft recovery 18-21 ft 2.6 ft recovery 21-24 ft 2.6 ft recovery 24-27 ft 2.6 ft recovery
10	9.0 to 14.0 ft. Dark grayish-brown clay (CL); medium stiff, moist, with black mottling. No PHC odor. 11.0 to 12.0 ft. Some coarse sand.					Temporary 1.0-inch diameter slotted PVC casing with pre-packed filter placed in borehole.
15	14.0 to 15.0 ft. Color change to dark brown with black mottling. Expansive clay.	CL			0	Expanding clays from 14.0 to 24.0 ft. Difficulty inserting temporary well past 14.0 ft. Borehole extended to 27.0 ft to confirm depth of saturated zone. Well was dry at 1050.
	15.0 to 27.0 ft. Color change to dark grayish-brown with black mottling. Expansive clay.				0	Because the borehole was inside an unoccupied building, the permitting agency allowed the borehole to be left open for the duration of the project, prior to grouting.
20		X		B3-20.0		
	Wet at 22.0 ft. Saturated at 22.5 ft. 24.0 to 27.0 ft. stiff clay			▽	0	
25						Borehole grouted on 6/22/11 using a tremie pipe and neat cement grout.
						Mr. Jeff Jones with Zone 7 Water Agency on site to observe and document grouting of the borehole.
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P&D ENVIRONMENTAL, INC.

BORING NO.: B4	PROJECT NO.: 0523	PROJECT NAME: 4280 Hacienda Drive, Pleasanton	
BORING LOCATION: South of Elevator Pit, approximately 20 feet from B1			ELEVATION AND DATUM: None
DRILLING AGENCY: Vironex	DRILLER: Mike	DATE & TIME STARTED: 3/31/11 1125	DATE & TIME FINISHED: 6/22/11 0905
DRILLING EQUIPMENT: GeoProbe Badger			
COMPLETION DEPTH: 30.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLD	CHECKED BY: PHK
FIRST WATER DEPTH: 26.5 Feet	NO. OF SAMPLES: 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.5 ft. Concrete slab (6-inches) and sandy gravel base (FILL).	FILL		No Well Constructed	0	Borehole hand augered from 0.0 to 3.0 ft using 3.0-inch O.D. hand auger.
5	1.5 to 11.0 ft. Dark gray clay (OH); medium stiff, moist, with rootlets and black mottling. No Petroleum Hydrocarbon (PHC) odor.	OH			0	Borehole continuously cored using a 3.0-foot long 2.0-inch O.D. Geoprobe single wall drill rods containing a Geoprobe Macrocore barrel sampler. The sampler was lined with 2.8-foot long 1.75-inch O.D. transparent PVC tubes.
10	9.0 to 14.0 ft. Expansive clays.				0	3-6 ft 2.4 ft recovery 6-9 ft 2.8 ft recovery 9-12 ft 2.6 ft recovery 12-15 ft 2.4 ft recovery 15-18 ft 2.8 ft recovery 18-21 ft 2.8 ft recovery 21-24 ft 2.8 ft recovery 24-27 ft 2.6 ft recovery 27-30 ft 2.8 ft recovery
	11.0 to 26.0 ft. Dark brown clay (CL); medium stiff, moist, with black mottling. No PHC odor.	CL				Temporary 1.0-inch diameter slotted PVC casing with pre-packed filter placed in borehole.
15	16.0 to 30.0 ft. Expansive clay.				0	Expanding clays from 9.0 to 30.0 ft. Water not encountered at 24.0 ft. Borehole extended to 27.0 ft. Water encountered during drilling at 26.5 ft. Borehole extended to 30.0 ft. Well was dry at 1548.
20		X		B4-20.0	0	Because the borehole was inside an unoccupied building, the permitting agency allowed the borehole to be left open for the duration of the project, prior to grouting.
	Wet at 26.0 ft. Saturated at 26.5 ft.				0	
25	26.0 to 30.0 ft. Color change to grayish-brown with black mottling.			▽		
	27.0 to 30.0 ft. stiff clay					Borehole grouted on 6/22/11 using a tremie pipe and neat cement grout.
					0	Mr. Jeff Jones with Zone 7 Water Agency on site to observe and document grouting of the borehole.
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P&D ENVIRONMENTAL, INC.

BORING NO.: B5 PROJECT NO.: 0523 PROJECT NAME: 4280 Hacienda Drive, Pleasanton

BORING LOCATION: West of Elevator Pit, approximately 17 feet from B1 ELEVATION AND DATUM: None

DRILLING AGENCY: Vironex DRILLER: Mike

DRILLING EQUIPMENT: GeoProbe Badger

COMPLETION DEPTH: 27.0 Feet BEDROCK DEPTH: Not Encountered

FIRST WATER DEPTH: Not Encountered NO. OF SAMPLES: 1 Soil, 1 Water

DATE & TIME STARTED:	DATE & TIME FINISHED:
3/29/11 1110	6/22/11 0850

LOGGED BY:	CHECKED BY:
MLD	PHK

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 1.5 ft. Concrete slab (6-inches) and sandy gravel base (FILL).	FILL		No Well Constructed	0	Borehole hand augered from 0.0 to 3.0 ft using 3.0-inch O.D. hand auger.
5	1.5 to 9.0 ft. Dark gray clay (OH); medium stiff, moist, with rootlets and black mottling. No Petroleum Hydrocarbon (PHC) odor.	OH				Borehole continuously cored using a 3.0-foot long 2.0-inch O.D. Geoprobe single wall drill rods containing a Geoprobe Macrocore barrel sampler. The sampler was lined with 2.8-foot long 1.75-inch O.D. transparent PVC tubes.
	8.0 to 9.0 ft. Abundant organic content.				0	3-6 ft 2.6 ft recovery 6-9 ft 2.8 ft recovery 9-12 ft 2.8 ft recovery 12-15 ft 2.6 ft recovery 15-18 ft 2.8 ft recovery 18-21 ft 2.8 ft recovery 21-24 ft 2.6 ft recovery 24-27 ft 2.8 ft recovery
10	9.0 to 14.0 ft. Dark grayish-brown clay (CL); medium stiff, moist, with black mottling. No PHC odor.	CL		▼		Temporary 1.0-inch diameter slotted PVC casing with pre-packed filter placed in borehole.
15	14.0 to 23.0 ft. Color change to dark brown with black mottling.				0	Water not encountered during drilling to 24.0 ft on 3/29/11. Water level measured at 23.0 ft at 0705 on 3/31/11. Borehole extended to 27.0 ft on 3/31/11. Water level measured at 11.3 ft at 0811 and at 9.5 ft at 0828.
	23.0 to 27.0 ft. Color change to grayish-brown.				0	
20		X		B5-20.0		
	Wet at 24.5 ft. Saturated at 25.0 ft.				0	Because the borehole was inside an unoccupied building, the permitting agency allowed the borehole to be left open for the duration of the project, prior to grouting.
25				▽		Borehole grouted on 6/22/11 using a tremie pipe and neat cement grout.
						Mr. Jeff Jones with Zone 7 Water Agency on site to observe and document grouting of the borehole.
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