

ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY  
DAVID J. KEARS, Agency Director

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

May 18, 2007

Mr. Tom Ferrell  
Vulcan Materials Company  
11599 Old Friant Road  
Fresno, CA 93730

Subject: Fuel Leak Case No. RO0002527 and Geotracker Global ID T06019700255, Vulcan Materials, 501 El Charro Road, Pleasanton, CA 94566

Dear Mr. Ferrell:

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

**SITE INVESTIGATION AND CLEANUP SUMMARY**

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

- Residual total petroleum hydrocarbons as diesel remain in groundwater at concentrations up to 140 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

Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Ms. Cherie McCaulou (w/enc)  
SF- Regional Water Quality Control Board  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Mr. Toru Okamoto (w/enc)  
State Water Resources Control Board  
UST Cleanup Fund  
P.O. Box 944212  
Sacramento, CA 94244-2120

Ms. Danielle Stefani (w/enc)  
Livermore-Pleasanton Fire Department  
3560 Nevada Street  
Pleasanton, CA 94566

Ms. Colleen Winey, QIC 80201 (w/enc)  
Zone 7 Water Agency  
100 North Canyons Parkway  
Livermore, CA 94551

City of Pleasanton Planning and Community  
Development (w/enc)  
200 Old Bernal Avenue  
P.O. Box 520  
Pleasanton, CA 94566-0802

Mr. Bryan Behr  
ENV America  
244 California Street, Suite 500  
San Francisco, CA 94111

Jerry Wickham (w/orig enc), D. Drogos (w/enc), File (w/enc)



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May 18, 2007

Mr. Tom Ferell  
Vulcan Materials Company  
11599 Old Friant Road  
Fresno, CA 93730

**REMEDIAL ACTION COMPLETION CERTIFICATE**

Dear Mr. Ferell:

Subject: Fuel Leak Case No. RO0002527 and Geotracker Global ID T06019700255, Vulcan Materials, 501 El Charro Road, Pleasanton, CA 94566

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.

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  
Alameda County Environmental Health

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

**I. AGENCY INFORMATION**

Date: May 18, 2007

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: Hazardous Materials Specialist

**II. CASE INFORMATION**

Site Facility Name: Vulcan Materials		
Site Facility Address: 501 El Charro Road, Pleasanton, CA 94566		
RB Case No.: ---	Local Case No.: ---	LOP Case No.: RO0002527
URF Filing Date: 11/25/2002	Geotracker ID: T06019700255	APN: 946-1350-5-3
<b>Responsible Parties</b>	<b>Addresses</b>	<b>Phone Numbers</b>
Tom Ferrell, Vulcan Materials Company	11599 Old Friant Road, Fresno, CA 93730	925-485-5977

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	12,000 gallons	Diesel	Removed	11/05/2002
2	6,000 gallons	Gasoline	Removed	11/05/2002
Piping			Removed	11/05/2002

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and Type of Release: Unknown. No holes, cracks, or other signs of failure were observed in the tanks during removal.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ---	
Monitoring wells installed? No	Number: ---	Proper screened interval? ---
Highest GW Depth Below Ground Surface: 56.6	Lowest Depth: 57.5	Flow Direction: Assumed to southwest based on regional flow direction.
Most Sensitive Current Use: Drinking water source.		

Summary of Production Wells in Vicinity: The nearest water supply well is 3S/1E14B1, which is approximately 550 feet northwest of the site. Based on the distance from the site and cross gradient direction, well 3S/1E14B1 is not expected to be a receptor for the site. Water supply well 3S/1E14A2 is located approximately 800 feet northeast of the site. Based on the distance from the site and cross gradient direction, well 3S/1E14A2 is not expected to be a receptor for the site. Water supply well 3S/1E14G1 is the nearest downgradient well and is located approximately 1,200 feet west of the site. Based on the low concentrations of TPH as diesel detected in groundwater samples at the site and the distance from the site to well 3S/1E14G1, the 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 450 feet northeast 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
Tank	1 – 12,000 gallon tank 1 – 6,000 gallon tank	Transported to Ecology Control Industries in Richmond, CA for disposal	11/05/2002
Piping	Not reported	Transported to Ecology Control Industries in Richmond, CA for disposal	11/05/2002
Free Product	None	--	--
Soil	None	--	--
Groundwater	None	--	--

**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)	31	<0.2	<50	<50
TPH (Diesel)	1,800	<1	140	140
Oil and Grease	NA	NA	NA	NA
Benzene	<0.005	<0.005	<0.5	<0.5
Toluene	0.013	<0.005	<0.5	<0.5
Ethylbenzene	0.034	<0.005	<0.5	<0.5
Xylenes	0.018	<0.005	<0.5	<0.5
Lead	7.1(1)	7.1(1)	<0.005(2)	<0.005(2)
MTBE	<0.005(2)	<0.005(2)	<5(3)	<5(3)
Other (8240/8270)	NA(4)	NA(4)	NA(4)	NA(4)

- (1) Total lead; no other metals analysis conducted.  
 (2) Lead was not detected above a reporting limit of 5 ppb in a grab groundwater sample collected from boring B-5, which was filtered in the laboratory prior to preservation and analysis. Lead was detected at concentrations ranging from 140 to 1,000 ppb in four grab groundwater samples that were not filtered and were stored in acid preservative. Due to the high turbidity of the four grab groundwater samples and the potential for the acid preservative to leach lead from the suspended sediment, the analytical results for dissolved lead from these four grab groundwater samples are not considered accurate.  
 (2) MTBE <0.005 ppm; DIPE, ETBE, TAME, EDB, and EDC <0.005 ppm; TBA < 0.009 ppm in soil.  
 (3) MTBE, DIPE, ETBE, TBA, TAME, EDB, and EDC <0.5 ppb in groundwater.  
 (4) No VOC, SVOC, or other analyses.

#### Site History and Description of Corrective Actions:

One 12,000-gallon diesel UST and one 6,000-gallon gasoline UST were removed from a shared excavation on November 5, 2002. Tank inverts were at reported depths of 11.5 and 12 feet bgs. Soil samples collected from native material at the base of the tank excavation contained up to 1,800 ppm of TPH as diesel and 31 ppm of TPH as gasoline. Benzene was not detected in the soil samples and toluene, ethylbenzene, and xylenes, were detected at concentrations of less than 2.1 ppm. MTBE and other fuel oxygenates were not detected in the soil samples collected during tank removal.

In order to investigate the extent of soil and groundwater contamination, four soil borings (B-1 through B-4) were advanced using a hollow stem auger drilling rig on November 27 and 28, 2006. The soil borings were continuously cored to total depths of approximately 58 feet bgs. No stained soil and odor was observed in the borings and no fuel hydrocarbons, oxygenates, or lead scavengers were detected in soil samples collected at depths of 15 and 55 feet bgs from each boring. Lead was detected in the soil samples at concentrations ranging from 3.5 to 7.1 ppm. Groundwater samples were collected from each of the four soil borings by installing a temporary well inside the hollow stem augers. TPH as diesel was detected in two of the grab groundwater samples collected at concentrations of 65 and 140 ppb, respectively. Lead was detected in each of the grab groundwater samples at concentrations ranging from 140 to 1,000 ppb. The grab groundwater samples that were analyzed for lead were not filtered and were stored in sample containers with acid preservative. Due to the high turbidity of the grab groundwater samples and the potential for the acid preservative to leach lead from the suspended sediment, the analytical results for dissolved lead are not considered accurate.

A fifth soil boring (B-5) was advanced at the site to collect a more representative sample for dissolved lead in groundwater. The grab groundwater sample from boring B-5 was filtered in the laboratory prior to being preserved. Lead was not detected in the grab groundwater sample above the reporting limit of 5 ppb.

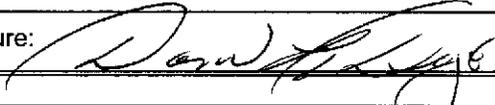
**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? ---		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? ---		
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: No	Number Decommissioned: 0	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

**V. ADDITIONAL COMMENTS, DATA, ETC.**

<p>Considerations and/or Variances:</p> <p>None.</p> <p>Conclusion:</p> <p>Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment 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.</p>
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**VI. LOCAL AGENCY REPRESENTATIVE DATA**

Prepared by: Jerry Wickham	Title: Hazardous Materials Specialist
Signature: 	Date: 05/15/07
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: 	Date: 05/15/07

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.
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**VII. REGIONAL BOARD NOTIFICATION**

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>Cherie McCaulou</i>	Date: 5/17/07

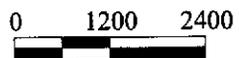
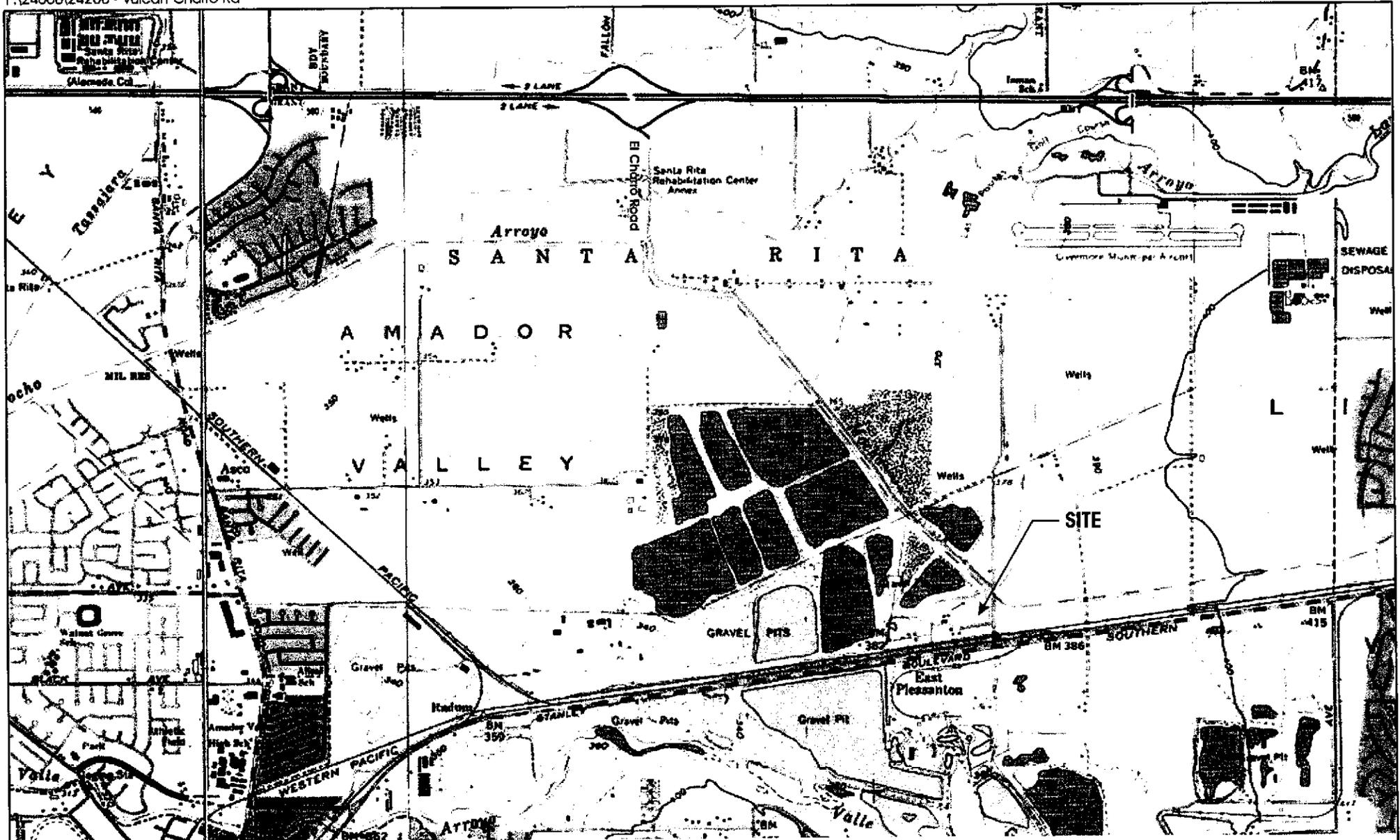
**VIII. MONITORING WELL DECOMMISSIONING**

Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: NA	Number Decommissioned: NA	Number Retained: NA
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: <i>Jerry McLaughlin</i>	Date: 05/17/07	

**Attachments:**

1. Site Location Map and Site Plan
2. Soil Sample Locations
3. Site Map with Boring Locations
4. Soil Analytical Data
5. Groundwater Analytical Data
6. Boring Logs

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.



Scale in Feet



NORTH

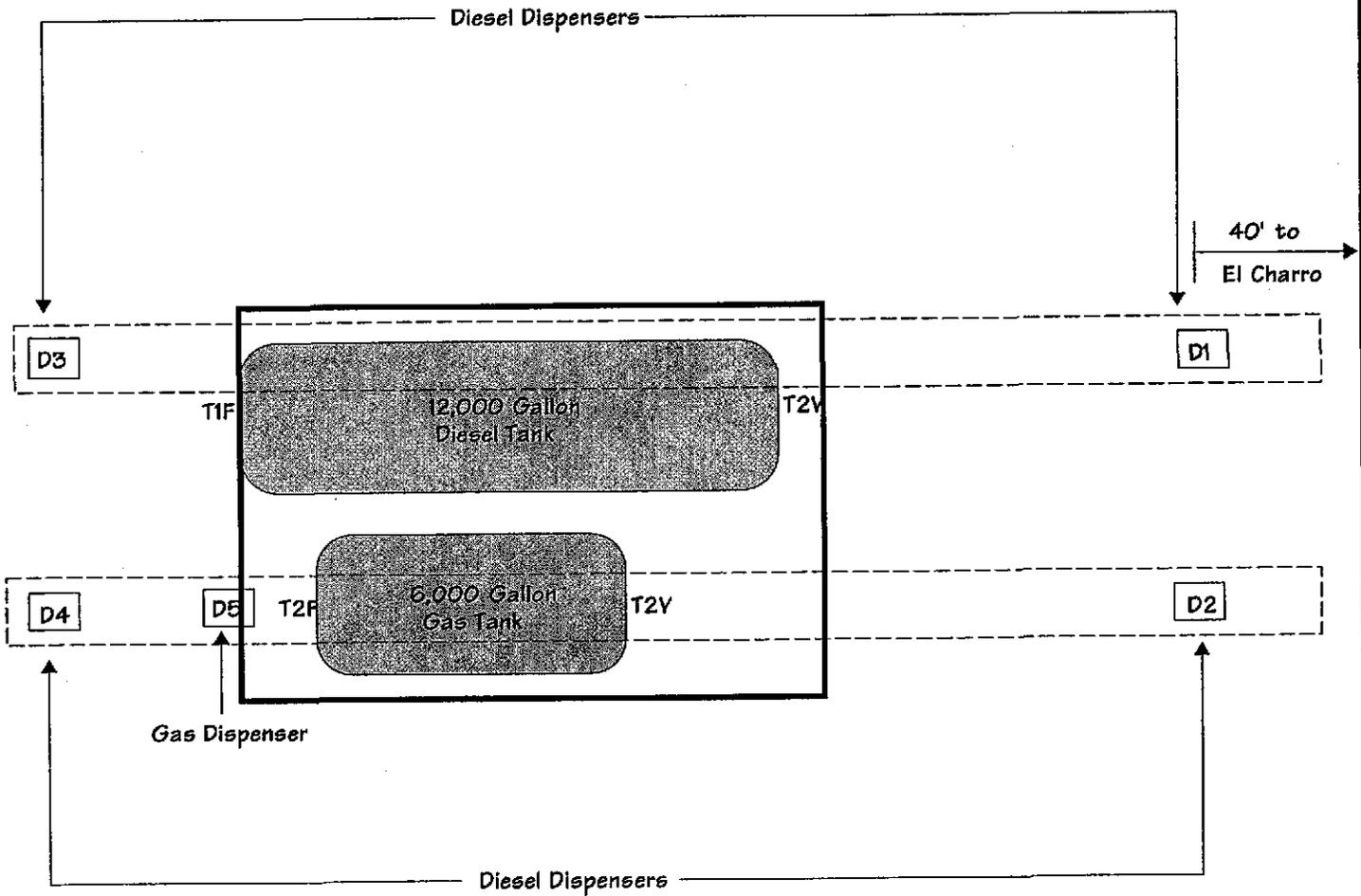
Source: TOPO! 2001 National Geographic

**BROWN AND CALDWELL**

PROJECT	24288-001
DATE	5-14-03

SITE	Vulcan Materials, Pleasanton, California
TITLE	Site Location Map

**ATTACHMENT 1**

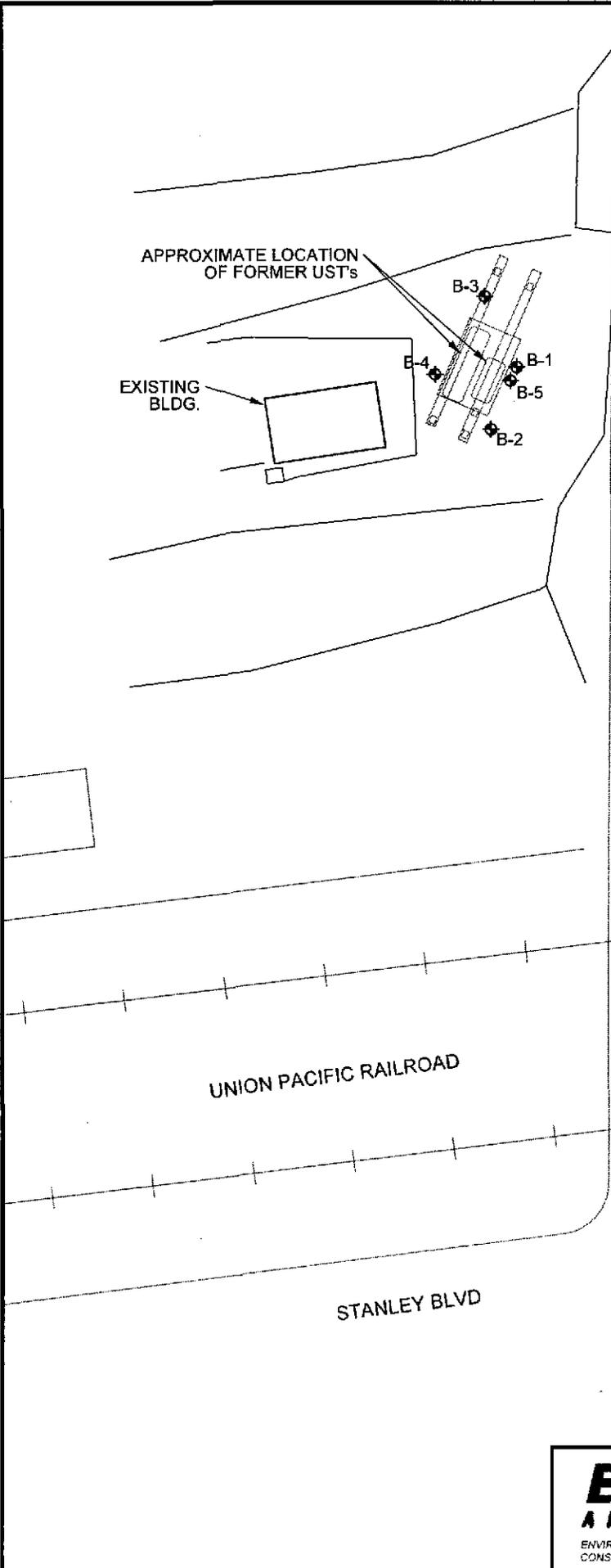


**Legend**

- T2V - Soil Sampling Locations Beneath the USTs
- D5 - Soil Sampling Locations at Dispensers
- Area of Excavation

<b>Title: Soil Sample Locations          Vulcan Materials          501 El Charro Road          Pleasanton, California</b>	
Figure Number: 3	Scale: 1" = 10'
Project No.: 6546-004.00	Drawn By: EJJ
<b>A · C · C</b> ENVIRONMENTAL CONSULTANTS	Date: 12/17/02
<b>ATTACHMENT 2</b>	

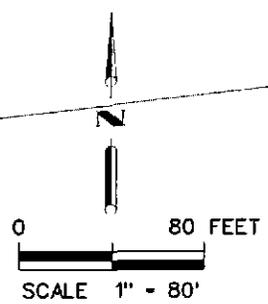
FILE NAME  
 PROJECT NUMBER  
 VMC0609  
 CHECKED BY  
 APPROVED BY  
 DRAWN BY



EL CHARRO RD

UNION PACIFIC RAILROAD

STANLEY BLVD



Basemap provided by Kier & Wright Surveyors  
 Pleasanton, California.



FIGURE 2  
 SITE MAP WITH BORING LOCATIONS  
**ATTACHMENT 3**

**TABLE 1**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**

Vulcan Materials Company  
Pleasanton Facility  
501 El Charro Road,  
Pleasanton, California

		VOC's <sup>1</sup> (mg/Kg) <sup>4</sup>											TEPH <sup>2</sup> (mg/Kg)	Metals <sup>3</sup> (mg/Kg)	
		1,2-Dichloroethane	Benzene	Ethylbenzene	MIBE	TAME	Toluene	Total Xylenes	TBA	DIPE	EDB	EIPE	Gasoline Rang Organics	Diesel Range Organics	Lead
Sample ID	Sample Date														
B-1@15'	11/27/06	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0089	<0.0089	<0.0045	<0.0045	<0.0045	<0.22	<1.0	7.1
B-1@55'	11/27/06	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0089	<0.0089	<0.0045	<0.0045	<0.0045	<0.22	<1.0	3.5
B-2@15'	11/27/06	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0096	<0.0096	<0.0048	<0.0048	<0.0048	<0.24	<0.99	5.9
B-2@55'	11/27/06	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.25	<0.99	3.9
B-3@15'	11/28/06	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0088	<0.0088	<0.0044	<0.0044	<0.0044	<0.22	<0.99	5.3
B-3@55'	11/28/06	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0097	<0.0049	<0.0049	<0.0049	<0.24	<1.0	4.0
B-4@15'	11/28/06	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0094	<0.0047	<0.0047	<0.0047	<0.24	<0.99	6.8
B-4@55'	11/28/06	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0094	<0.0047	<0.0047	<0.0047	<0.24	<1.0	3.6

**Notes:**  
1 - Volatile Organic Compounds by Environmental Protection Agency (EPA) Test Method 8260B  
2 - Total Extractable Petroleum Hydrocarbons analyzed by EPA Test Method 8015B Modified  
3 - Metals as lead by EPA Test method 6010B  
4 - Milligram per kilogram.  
<# - not detected at or above the laboratory reporting limit

# Table 1- Analytical Data Spreadsheet

Site Address: 501 El Charro Road, Pleasanton, CA

Project Number: 6546-004.00

Site Name: Vulcan Materials

Sampling Date: 11/5/02

Reporting Date: 12/17/02

Sample ID	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	TBA	MTBE	DIPE	ETBE	TAME	Total Lead
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## TANK 1

T1V-14.0'	68	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.011	<0.005	<0.010	<0.0050	<0.0050	6.3
T1F-12.4'	1,800	31	<0.025	<0.025	0.66	2.1	<0.025	<0.025	<0.050	<0.025	<0.025	4.6

## TANK 2

T2V-11.5'	N/A	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	2.0
T2F-12.5'	N/A	2.7	<0.0050	<0.0050	<0.0050	0.010	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	6.3

## DISPENSERS

D1-2.0	50	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	N/A
D2-2.0	2.8	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	N/A
D3-2.0	95	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	N/A
D4-2.0	29	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	N/A
D5-2.0	<1.0	<1.0	<0.0050	0.011	0.042	0.31	0.0083	<0.0050	<0.010	<0.0050	<0.0050	N/A

## SOIL STOCKPILE

SP-(A-D)	53	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.020	<0.0050	<0.010	<0.0050	<0.0050	2.7
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### Notes:

Samples results are in milligrams per kilogram (mg/kg), approximately equal to parts per million

< analytical results under laboratory reporting limit

N/A = samples were not analyzed for this constituent

TBA = tert-Butyl alcohol

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-butyl ether

TAME = tert- Amyl methyl ether

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Vulcan Materials Company  
 Pleasanton Facility  
 501 El Charro Road,  
 Pleasanton, California

		VOC's <sup>1</sup> (µg/L) <sup>4</sup>											TEPH <sup>2</sup> (µg/L)	Metals <sup>3</sup> (mg/L) <sup>5</sup>	
		1,2-Dichloroethane	Benzene	Ethylbenzene	MtBE	TAME	Toluene	Total Xylenes	TBA	DIPE	EDB	EtBE	Gasoline Range Organics	Diesel Range Organics	Lead
Sample ID	Sample Date														
B-1	11/27/06	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<50	140	1.0*
B-2	11/27/06	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<50	65	0.14*
B-3	11/28/06	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<50	<50	0.8*
B-4	11/28/06	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<50	<50	1.0*
B-5	1/31/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0047

Notes:

- 1 - Volatile Organic Compounds by Environmental Protection Agency (EPA) Test Method 8260
- 2 - Total Extractable Petroleum Hydrocarbons analyzed by EPA Test Method 6015B Modified
- 3 - Metals as lead by EPA Test method 6010B
- 4 - Micrograms per liter.
- 5 - Milligrams per liter.
- <# - not detected at or above the laboratory reporting limit
- \* - Sample was not filtered prior to being analyzed in the laboratory
- NA - Not analyzed

**ATTACHMENT 5**

Project: VMC Pleasanton Boring: B-1 Pg. 1 of 4

Drilling Co: Gregg Drilling & Testing, Inc. Drilling Method: Hollow Stem Auger Logged by: B. Behr

Date Started: 11/27/06 Sampling Method: Modified California Drive Sampler [18" x 2.0"] Approved by: A. Atkinson

Date Completed: 11/27/06 Hole Diameter: 6" Surface Elevation: 383 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
0						POORLY GRADED GRAVEL (GP), light olive brown (2.5Y 5/4), moist, 90% fine to coarse gravel, 10% fine to medium gravel
1						POORLY GRADED GRAVEL with SAND (GP), light olive brown (2.5Y 5/4), wet, 75% fine to coarse subangular gravel, 25% medium sand
2						
3						
4						
5			19			SILT (ML), olive brown (2.5Y 4/4), moist, 90% fines, 10% fine gravel, nonplastic
6			25	0		
7			14	0		
8			4	0		
9			7	0		
10			7	0		
11			4	0		↕ 85% fines, 15% fine gravel
12			3	0		SANDY LEAN CLAY (CL), olive brown (2.5Y 4/4), moist, 55% fines, 35% fine sand, 10% fine gravel, low plasticity
13			4	0		
14			4	0		
15			3	0		
			4	0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING, CONSULTING & CONSTRUCTION

## BORING LOG

Project Location 501 El Charro Road, Pleasanton, CA

**ATTACHMENT B**

LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

Project: VMC Pleasanton

Boring: B-1

Pg. 2 of 4

Drilling Co: Gregg Drilling & Testing, Inc.

Drilling Method: Hollow Stem Auger

Logged by: B. Behr

Date Started: 11/27/06

Sampling Method: Modified California Drive Sampler [18" x 2.0"]

Approved by: A. Atkinson

Date Completed: 11/27/06

Hole Diameter: 6"

Surface Elevation: 383 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
15	B-1-15.5		5			SANDY LEAN CLAY (CL) (Continued)
16			5	0		<p>LEAN CLAY with GRAVEL (CL), olive brown (2.5Y 4/4), moist, 75% fines, 15% fine gravel, 10% fine sand, low to medium plasticity</p> <p>↓ 70% fines, 20% fine gravel, 10% fine sand</p> <p>↓ 65% fines, 25% fine to medium gravel as above</p>
17			4	0		
18			6	0		
19			4	0		
20			15	0		
21			11	0		
22			5	0		
23			10	0		
24			11	0		
25			50	0		
26			4	0	POORLY GRADED GRAVEL with CLAY and SAND (GP-GC), olive brown (2.5Y 4/4), moist, 70% fine to coarse rounded gravel, 20% fine to medium sand, 10% low plasticity fines	
27			6	0	<p>↓ 60% fine to medium subangular gravel, 30% fine sand, 10% low plasticity fines</p>	
28			20	0		
29			22	0		
30			16	0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location

501 El Charro Road,  
Pleasanton, CA

Project No.

VMC0609

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2/8/2007

LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

**Project:** VMC Pleasanton

**Boring:** B-1

Pg. 3 of 4

**Drilling Co:** Gregg Drilling & Testing, Inc.

**Drilling Method:** Hollow Stem Auger

**Logged by:** B. Behr

**Date Started:** 11/27/06

**Sampling Method:** Modified California Drive Sampler [18" x 2.0"]

**Approved by:** A. Atkinson

**Date Completed:** 11/27/06

**Hole Diameter:** 6"

**Surface Elevation:** 383 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
30			25			POORLY GRADED GRAVEL with CLAY and SAND (GP-GC) (Continued)
31			29	0		
32			32	0		
33			28	0		
34			16	0		
35			20	0		
36			30	0		
37			50	0		
38			46	0		
39			14	0		
40			22	0		POORLY GRADED GRAVEL with SAND (GP), olive brown (2.5Y 4/4), moist, 70% fine to medium subangular gravel, 30% medium sand
41			25	0		
42			23	0		
43			50/6	0		
44			22	0		
45			35	0		
			16	0		
			30	0		
			35	0		
			21	0		
			34	0		
			20	0		
			16	0		
			33	0		
			40	0		
			24	0		
			30	0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location

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Pleasanton, CA

Project No.

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LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

Project: VMC Pleasanton

Boring: B-1

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Drilling Co: Gregg Drilling & Testing, Inc.

Drilling Method: Hollow Stem Auger

Logged by: B. Behr

Date Started: 11/27/06

Sampling Method: Modified California Drive Sampler (18" x 2.0")

Approved by: A. Atkinson

Date Completed: 11/27/06

Hole Diameter: 6"

Surface Elevation: 383 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
45			31			POORLY GRADED GRAVEL with SAND (GP) (Continued)
46			34			
			38	0		
47			40			
			23			
			33			
48			38	0		
			19			
49			28			
			30	0		
50			25			
			36			
51			39			
			18	0		
52			8			
			31			
53			21			
			21			
54			34			
			20	0		
55	B-1-55.5		17			
			31			
56			40	0		
			25			
57			28			
			35	0		
58	TOTAL DEPTH 58 FEET BELOW GROUND SURFACE GROUNDWATER ENCOUNTERED AT 57 FEET BELOW GROUND SURFACE					

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location	501 El Charro Road, Pleasanton, CA	Project No.	VMC0609	Last Revised	2/8/2007
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LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

Drilling Co: Gregg Drilling & Testing, Inc. Drilling Method: Hollow Stem Auger Logged by: B. Behr

Date Started: 11/27/06 Sampling Method: Modified California Drive Sampler [18" x 2.0"] Approved by: A. Atkinson

Date Completed: 11/27/06 Hole Diameter: 6" Surface Elevation: 383 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
0						POORLY GRADED GRAVEL (GP), light olive brown (2.5Y 5/4), moist, 90% fine to medium gravel, 10% fine to medium sand
1						POORLY GRADED GRAVEL with SAND (GP), light olive brown (2.5Y 5/4), moist, 75% fine to medium subangular gravel, 25% medium sand
2						
3						
4						
5			10			SILT (ML), olive brown (2.5Y 4/4), moist, 90% fines, 10% fine gravel, nonplastic
6			13	0		
7			13	0		
8			5	0		
9			5	0		
10			4	0		SANDY LEAN CLAY (CL), olive brown (2.5Y 4/4), moist, 55% fines, 35% fine sand, 10% fine gravel, medium plasticity
11			4	0		
12			3	0		
13			9	0		
14			8	0		
15			7	0		
			7	0		
			4	0		
			4	0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location	501 El Charro Road, Pleasanton, CA	Project No.	Last Revised
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LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

Project: VMC Pleasanton

Boring: B-2

Pg. 2 of 4

Drilling Co: Gregg Drilling & Testing, Inc.

Drilling Method: Hollow Stem Auger

Logged by: B. Behr

Date Started: 11/27/06

Sampling Method: Modified California Drive Sampler [18" x 2.0"]

Approved by: A. Atkinson

Date Completed: 11/27/06

Hole Diameter: 6"

Surface Elevation: 383 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
15			6			SANDY LEAN CLAY (CL) (Continued)
16	B-2-15.5		3			
16			6	0		
17			10			LEAN CLAY with GRAVEL (CL), olive brown (2.5Y 4/4), moist, 75% fines, 15% fine gravel, 10% fine sand, medium plasticity
17			10			
18			12	0		
18			4			
19			9			
19			8	0		
20			11			
20			9	0		
21			9			
21			10	0		
22			6			
22			7	0		
23			9			
23			16	0		
24			19			
24			22	0		
25			21			
25			20	0		
26			37			
26			20	0		POORLY GRADED GRAVEL with CLAY and SAND (GP-GC), olive brown (2.5Y 4/4), moist, 70% fine to medium gravel, 20% fine to medium sand, 10% low plasticity fines
27			20			
27			27	0		
28			16			
28			21	0		
29			31			
29			16	0		
30			23			
30			0			

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:

LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07



ENVIRONMENTAL ENGINEERING  
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Project: VMC Pleasanton

Boring: B-2

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Drilling Co: Gregg Drilling & Testing, Inc.

Drilling Method: Hollow Stem Auger

Logged by: B. Behr

Date Started: 11/27/06

Sampling Method: Modified California Drive Sampler (18" x 2.0")

Approved by: A. Atkinson

Date Completed: 11/27/06

Hole Diameter: 6"

Surface Elevation: 383 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
30			25			POORLY GRADED GRAVEL with CLAY and SAND (GP-GC), olive brown (2.5Y 4/4), moist, 60% fine to medium subangular gravel, 30% medium sand, 10% low plasticity fines
31			29	0		
32			31	0		Type II-V Neat Cement Grout with a tremmie pipe to ground surface
33			30	0		
34			19			POORLY GRADED GRAVEL with SAND (GP), olive brown (2.5Y 4/4), moist, 70% fine to medium subangular gravel, 30% medium sand
35			24	0		
36			24	0		
37			27	0		
38			29	0		
39			35	0		
40			31	0		
41			31	0		
42			39	0		
43			35	0		
44			38	0		
45			40	0		

NOTES:

LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07



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## BORING LOG

Project Location	501 El Charro Road, Pleasanton, CA	Project No.	Last Revised
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**Project:** VMC Pleasanton

**Boring:** B-2

**Pg.** 4 **of** 4

**Drilling Co:** Gregg Drilling & Testing, Inc.

**Drilling Method:** Hollow Stem Auger

**Logged by:** B. Behr

**Date Started:** 11/27/06

**Sampling Method:** Modified California Drive Sampler [18" x 2.0"]

**Approved by:** A. Atkinson

**Date Completed:** 11/27/06

**Hole Diameter:** 6"

**Surface Elevation:** 383 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
45			40			POORLY GRADED GRAVEL with SAND (GP) (Continued)
46			19			
			27	0		
			32			
47			17			
			31	0		
48			40			
			33			
49			33	0		
			37			
50			16			
			27	0		
51			34			
			21			
52			31	0		
			38			
53			21			
			21	0		
54			34			
			25	0		
55	B-2-55.5		20			
			32			
56			28			
			35	0		
57			41			
TOTAL DEPTH 57.5 FEET BELOW GROUND SURFACE GROUNDWATER ENCOUNTERED AT 56.5 FEET BELOW GROUND SURFACE						

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location	501 El Charro Road, Pleasanton, CA	Project No.	Last Revised
		VMC0609	2/8/2007

LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

Drilling Co: Gregg Drilling & Testing, Inc. Drilling Method: Hollow Stem Auger Logged by: B. Behr  
 Date Started: 11/28/07 Sampling Method: Modified California Drive Sampler (18" x 2.0") Approved by: A. Atkinson  
 Date Completed: 11/28/07 Hole Diameter: 6" Surface Elevation: 382.5 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
0						POORLY GRADED GRAVEL (GP), light olive brown (2.5Y 5/4), moist, 90% medium subangular gravel, 10% fine to medium sand
1						WELL GRADED GRAVEL with SAND (GW), light olive brown (2.5Y 5/4), moist, 75% fine subangular gravel, 25% medium sand
2						
3						
4						
5			10			
6			12	0		
7			14	0		SILT with GRAVEL (ML), olive brown (2.5Y 4/4), moist, 85% fines, 15% fine gravel, nonplastic
8			4			
9			7	0		
10			8	0		
11			3			SANDY LEAN CLAY (CL), olive brown (2.5Y 4/4), moist, 55% fines, 35% fine sand, 10% fine gravel, low plasticity
12			5	0		
13			6	0		
14			9	0		
15			3			
			4	0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:

LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07



## BORING LOG

Project Location	501 El Charro Road, Pleasanton, CA	Project No.	VMC0609	Last Revised	2/8/2007
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**Project:** VMC Pleasanton

**Boring:** B-3

**Pg.** 2 **of** 4

**Drilling Co:** Gregg Drilling & Testing, Inc.

**Drilling Method:** Hollow Stem Auger

**Logged by:** B. Behr

**Date Started:** 11/28/07

**Sampling Method:** Modified California Drive Sampler (18" x 2.0")

**Approved by:** A. Atkinson

**Date Completed:** 11/28/07

**Hole Diameter:** 6"

**Surface Elevation:** 392.5 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
15			7			SANDY LEAN CLAY (CL) (Continued)
16	B-3-15.5		3	0		LEAN CLAY with GRAVEL (CL), olive brown (2.5Y 4/4), moist, 75% fines, 20% fine gravel, 5% fine sand, low to medium plasticity
17			3	0		
18			4	0		POORLY GRADED GRAVEL with CLAY and SAND (GP-GC), olive brown (2.5Y 4/4), moist, 70% fine subrounded gravel, 20% medium sand, 10% low plasticity fines
19			4	0		
20			6	0		
21			4	0		
22			8	0		
23			5	0		
24			4	0		
25			6	0		
26			6	0		
27			7	0		
28			23	0		
29			20	0		
30			29	0		
			31	0		
			30	0		
			16	0		
			23	0		
			32	0		
			22	0		
			20	0		
			25	0		
			30	0		
			36	0		
			25	0		
			18	0		
			23	0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location	501 El Charro Road, Pleasanton, CA	Project No.	Last Revised
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LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

**Project:** VMC Pleasanton

**Boring:** B-3

**Pg.** 3 of 4

**Drilling Co:** Gregg Drilling & Testing, Inc.

**Drilling Method:** Hollow Stem Auger

**Logged by:** B. Behr

**Date Started:** 11/28/07

**Sampling Method:** Modified California Drive Sampler [18" x 2.0"]

**Approved by:** A. Atkinson

**Date Completed:** 11/28/07

**Hole Diameter:** 6"

**Surface Elevation:** 382.5 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
30			28			POORLY GRADED GRAVEL with CLAY and SAND (GP-GC) (Continued)
31			16	0		
32			19	0		
33			24	0		POORLY GRADED SAND (SP), olive brown (2.5Y 4/4), moist, 95% medium sand, 5% fines
34			32	0		
35			30	0		
36			34	0		POORLY GRADED GRAVEL with SAND (GP), olive brown (2.5Y 4/4), moist, 70% fine to coarse subangular gravel, 30% medium sand
37			22	0		
38			27	0		
39			30	0		
40			31	0		
41			30	0		
42			34	0		
43			28	0		
44			31	0		
45			30	0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location

501 El Charro Road,  
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Project No.

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LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

**Project:** VMC Pleasanton

**Boring:** B-3

Pg. 4 of 4

**Drilling Co:** Gregg Drilling & Testing, Inc.

**Drilling Method:** Hollow Stem Auger

**Logged by:** B. Behr

**Date Started:** 11/28/07

**Sampling Method:** Modified California Drive Sampler [18" x 2.0"]

**Approved by:** A. Atkinson

**Date Completed:** 11/28/07

**Hole Diameter:** 6"

**Surface Elevation:** 382.5 feet above msl

Depth in feet	Sample ID	Samples	Blow Count	PID	Water Levels	DESCRIPTION
45			30			POORLY GRADED GRAVEL with SAND (GP), olive brown (2.5Y 4/4), moist, 75% fine to coarse gravel, 25% medium sand  Type II-V Neat Cement Grout with a tremmie pipe to ground surface
46			28	0		
47			32	0		
48			35	0		
49			40	0		
50			41	0		
51			30	0		
52			36	0		
53			40	0		
54			25	0		
55			32			
56			40			
57						
58						TOTAL DEPTH 58 FEET BELOW GROUND SURFACE GROUNDWATER ENCOUNTERED AT 56.5 FEET BELOW GROUND SURFACE

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location	501 El Charro Road, Pleasanton, CA	Project No.	Last Revised
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LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

**Project:** VMC Pleasanton

**Boring:** B-4

**Pg.** 1 **of** 4

**Drilling Co:** Gregg Drilling & Testing, Inc.

**Drilling Method:** Hollow Stem Auger

**Logged by:** B. Behr

**Date Started:** 11/28/07

**Sampling Method:** Modified California Drive Sampler [18" x 2.0"]

**Approved by:** A. Atkinson

**Date Completed:** 11/28/07

**Hole Diameter:** 6"

**Surface Elevation:** 382.7 feet above msl

Depth in feet	Sample ID	Samples	PID	Water Levels	DESCRIPTION
0					POORLY GRADED GRAVEL (GP), light olive brown (2.5Y 5/4), 90% fine to coarse gravel, 10% fine to medium subangular gravel
1					WELL GRADED GRAVEL with SAND (GW), light olive brown (2.5Y 5/4), moist, 75% fine to coarse subangular gravel, 25% medium sand
2					
3					
4					
5					
6		X	0		SILT (ML), olive brown (2.5Y 4/4), moist, 90% fines, 10% fine gravel, nonplastic
7		X	0		
8		X	0		SANDY LEAN CLAY (CL), olive brown (2.5Y 4/4), moist, 55% fines, 35% fine sand, 10% fine gravel, medium plasticity
9		X	0		
10		X	0		
11		X	0		
12		X	0		
13		X	0		
14		X	0		
15		X	0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING, CONSULTING & CONSTRUCTION

## BORING LOG

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LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

Project: VMC Pleasanton Boring: B-4 Pg. 2 of 4

Drilling Co: Gregg Drilling & Testing, Inc. Drilling Method: Hollow Stem Auger Logged by: B. Behr

Date Started: 11/28/07 Sampling Method: Modified California Drive Sampler [18" x 2.0"] Approved by: A. Atkinson

Date Completed: 11/28/07 Hole Diameter: 6" Surface Elevation: 382.7 feet above msf

Depth in feet	Sample ID	Samples	PID	Water Levels	DESCRIPTION	
15					SANDY LEAN CLAY (CL) (Continued)	
16	B-4-15.5		0		Type II-V Neat Cement Grout with a tremmie pipe to ground surface	
17			0			
18			0			
19			0			
20			0			
21			0			
22			0			
23			0			
24			0			POORLY GRADED GRAVEL with SILT and SAND (GP-GM), olive brown (2.5Y 4/4), moist, 75% fine to coarse gravel, 15% fine to medium sand, 10% nonplastic fines
25			0			
26			0			
27			0			
28			0			
29			0			
30			0			

NOTES:



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LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07

Project: VMC Pleasanton Boring: B-4 Pg. 3 of 4

Drilling Co: Gregg Drilling & Testing, Inc. Drilling Method: Hollow Stem Auger Logged by: B. Behr

Date Started: 11/28/07 Sampling Method: Modified California Drive Sampler [18" x 2.0"] Approved by: A. Atkinson

Date Completed: 11/28/07 Hole Diameter: 6" Surface Elevation: 382.7 feet above msl

Depth in feet	Sample ID	Samples	PID	Water Levels	DESCRIPTION
30					POORLY GRADED GRAVEL with SILT and SAND (GP-GM) (Continued)
31			0		
32			0		POORLY GRADED GRAVEL with SAND (GP), olive brown (2.5Y 4/4), moist, 70% fine to medium subangular gravel, 30% medium sand
33			0		
34			0		
35			0		
36			0		
37			0		
38			0		
39			0		
40			0		
41			0		
42			0		
43			0		
44			0		
45			0		

Type II-V Neat Cement Grout with a tremmie pipe to ground surface

NOTES:



ENVIRONMENTAL ENGINEERING,  
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## BORING LOG

Project Location	501 El Charro Road, Pleasanton, CA	Project No.	Last Revised
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LOG OF BORING VMC PLEASANTON GPJ ENV AMERICA, SGT 2/8/07

Drilling Co: Gregg Drilling & Testing, Inc. Drilling Method: Hollow Stem Auger Logged by: B. Behr  
 Date Started: 11/28/07 Sampling Method: Modified California Drive Sampler [18" x 2.0"] Approved by: A. Atkinson  
 Date Completed: 11/28/07 Hole Diameter: 6" Surface Elevation: 382.7 feet above msl

Depth in feet	Sample ID	Samples	PID	Water Levels	DESCRIPTION
45					POORLY GRADED GRAVEL with SAND (GP) (Continued)
46			0		
47			0		
48			0		
49			0		
50			0		
51			0		
52			0		
53			0		
54			0		
55			0		Type II-V Neat Cement Grout with a tremmie pipe to ground surface
56	B-4-55.5		0		
57			0		
58	TOTAL DEPTH 58 FEET BELOW GROUND SURFACE GROUNDWATER ENCOUNTERED AT 57 FEET BELOW GROUND SURFACE				
59					
60					

NOTES:

LOG OF BORING VMC PLEASANTON.GPJ ENV AMERICA.GDT 2/8/07



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Project Location	501 El Charro Road, Pleasanton, CA	Project No.	VMC0609	Last Revised	2/8/2007
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