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Alameda County
Environmental Health

TRC

Customer-Focused Solutions

January 25, 2005

Project No. 42017003

Mr. Don Hwang
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

SITE: CIRCLE K STATION #5748
6401 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA

RE: WELL ABANDONMENT REPORT

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC submits this Well Abandonment Report for the destruction of two monitoring wells at the subject site, located at 6401 Dublin Boulevard in Dublin, California (Figure 1). These offsite wells were destroyed due to construction activities planned at those locations by Pin Brothers Fine Homes. Additional offsite wells will be installed to the south and southeast of the Circle K Station during the first quarter of 2005. TRC anticipates submitting the work plan for the installation of the offsite monitoring wells in February 2005.

Offsite monitoring wells MW-8 and MW-9 were abandoned on December 17, 2004. Figure 2 shows the location of the former wells. Prior to the abandonment of the wells, well destruction permits were obtained from the Alameda County Water District (Zone 7). Copies of the permits are included in Appendix A. Initial boring logs and well completion details are included in Appendix B. Well abandonment activities are summarized in Table 1.

Monitoring wells MW-8 and MW-9 were abandoned by pressure grouting. Approximately 5 gallons of neat cement grout was pumped into the each well casing and held at a pressure of 25 pounds per square inch (psi), for 15 minutes. The well casings were then topped off with additional neat cement to within two feet below grade. Well boxes were removed using an electric jackhammer and well casings were severed two feet below grade. The remaining holes were backfilled and capped with approximately 6 inches of quick setting concrete. The concrete was then stained black to blend in with the surrounding parking lot.

Debris created during well destruction was stored in a single DOT-approved 55-gallon drum. The drum was stored on site pending transfer to an appropriate waste disposal facility.

Well Abandonment Report

Circle K Station #5748, Dublin, California

January 25, 2005

Should you have any questions regarding this report, please call us at (925) 688-1200.

Sincerely,

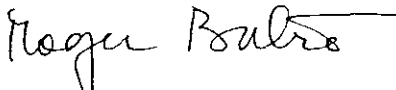
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for
Patrick Kelleher
Senior Staff Geologist



Amy Wilson, P.E.
Senior Project Engineer



Roger Batra
Senior Project Manager

Attachments: Table 1 – Summary of Well Abandonment Activities
Figure 1 – Vicinity Map
Figure 2 – Site Plan
Appendix A – Well Abandonment Permits
Appendix B – Boring Logs and Well Completion Details

cc: Thomas Kosel, ConocoPhillips (hard copy and electronic upload)
Dale Garron, Pin Brothers Fine Homes

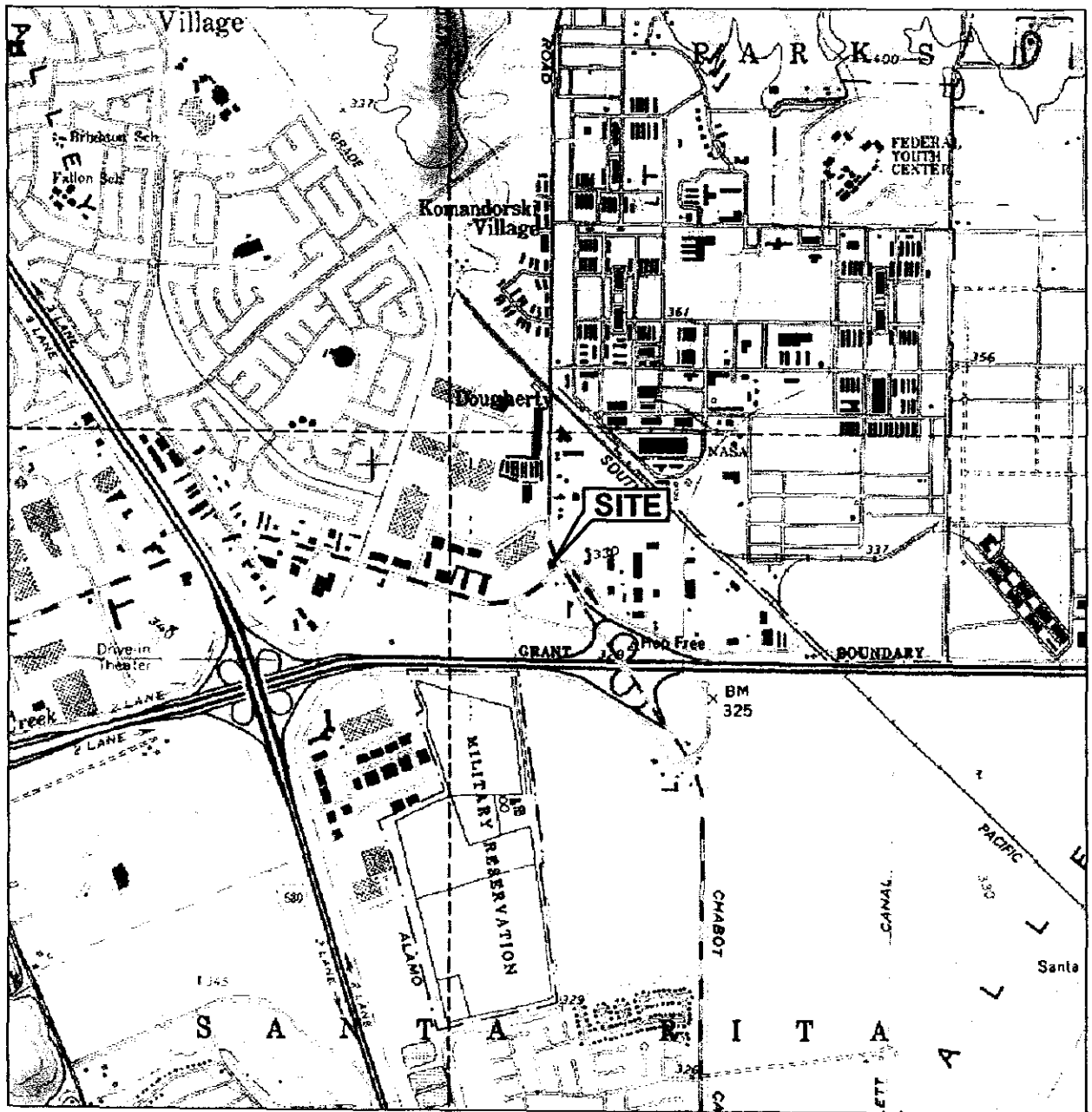
TABLE 1
SUMMARY OF WELL ABANDONMENT ACTIVITIES

Table 1 - Summary of Well Abandonment Activities
 Circle K Station #5748
 6401 Dublin Boulevard
 Dublin, California

Well ID	Date Abandoned	Well Diameter (inches)	Installed Depth (feet bgs)	Depth-to-Water (feet below toc)	Depth of Casing Removed (feet bgs)
MW-8	12/17/2004	2	20	7.2	2
MW-9	12/17/2004	2	20	6.8	2

bgs - below ground surface
 toc - top of casing

FIGURES



1 MILE 3/4 1/2 1/4 0 1 MILE



SCALE 1 : 24,000



QUADRANGLE LOCATION

SOURCE:

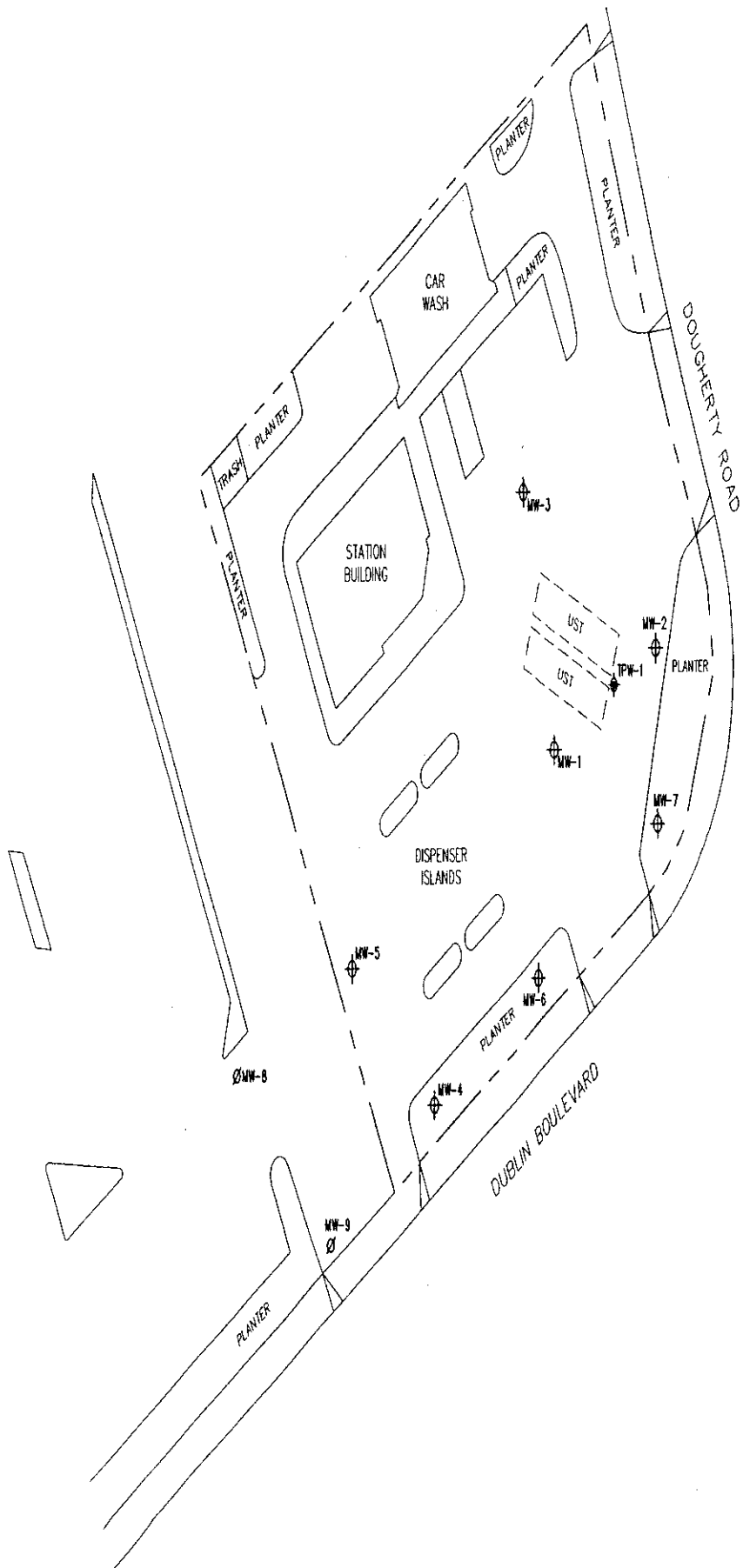
United States Geological Survey
7.5 Minute Topographic Maps:
Dublin Quadrangle
California

VICINITY MAP

76 Service Station #5748
6401 Dublin Boulevard
Dublin, California

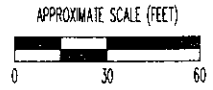
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FIGURE 1



LEGEND

- Approximate property line
- MW-7 Groundwater monitoring well
- TPW-1 UST pit backfill well
- MW-9 Abandoned well



SITE PLAN

76 Service Station #5748
 6401 Dublin Boulevard
 Dublin, California

SOURCE: Site plan by Gettler-Ryan, March 2002.

APPENDIX A
WELL DESTRUCTION PERMITS



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 6401 Dublin Blvd.
Dublin CA 94568

PERMIT NUMBER 24159
WELL NUMBER 3S/1E-6E10 (MW8) & 6E11 (MW9)
APN 941-0205-010-03

California Coordinates Source _____ Accuracy: _____ ft.
CCN 11.000 _____ ft.
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name ConocoPhillips
Address 76 Broadway Phone 916-557-7639
City Sacramento CA Zip 95818

- (A) GENERAL
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS
 1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.
- D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
- (F) WELL DESTRUCTION. See attached.
- (G) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

APPLICANT
Name TRC - PATRICK KELLEHER
Address 1590 Solano Way Phone 925-638-0388
City Concord CA Zip 94520

TYPE OF PROJECT:
Well Construction Geotechnical Investigation
Well Destruction Contamination Investigation
Cathodic Protection Other _____

PROPOSED WELL USE:
Domestic Irrigation
Municipal Remediation
Industrial Groundwater Monitoring
Dewatering Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Hollow Stem Auger
Cable Tool Direct Push Other _____

DRILLING COMPANY Woodward
DRILLER'S LICENSE NO. C57-710079

WELL SPECIFICATIONS:
Drill Hole Diameter 8 in. Maximum _____
Casing Diameter 20 in. Depth 20 ft.
Surface Seal Depth 5 ft. Number 2 wells

SOIL BORINGS:
Number of Borings _____ in. Maximum _____
Hole Diameter _____ ft. Depth _____ ft.

ESTIMATED STARTING DATE 12/17/04
ESTIMATED COMPLETION DATE 12/20/04

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Patrick Kelleher Date 12/13/04

Approved Wyman Hong Date 12/13/04
Wyman Hong

ATTACH SITE PLAN OR SKETCH

APPENDIX B
BORING LOGS AND WELL COMPLETION DETAILS

Gettler-Ryan, Inc.

Log of Boring MW-8

PROJECT: *Tosco (76) Service Station No. 6419*

LOCATION: *6401 Dublin Boulevard, Dublin, California*

GR PROJECT NO.: *140101.04*

CASING ELEVATION:

DATE STARTED: *09/28/01*

WL (ft. bgs): *15.0* DATE: *09/28/01* TIME: *09:30*

DATE FINISHED: *09/28/01*

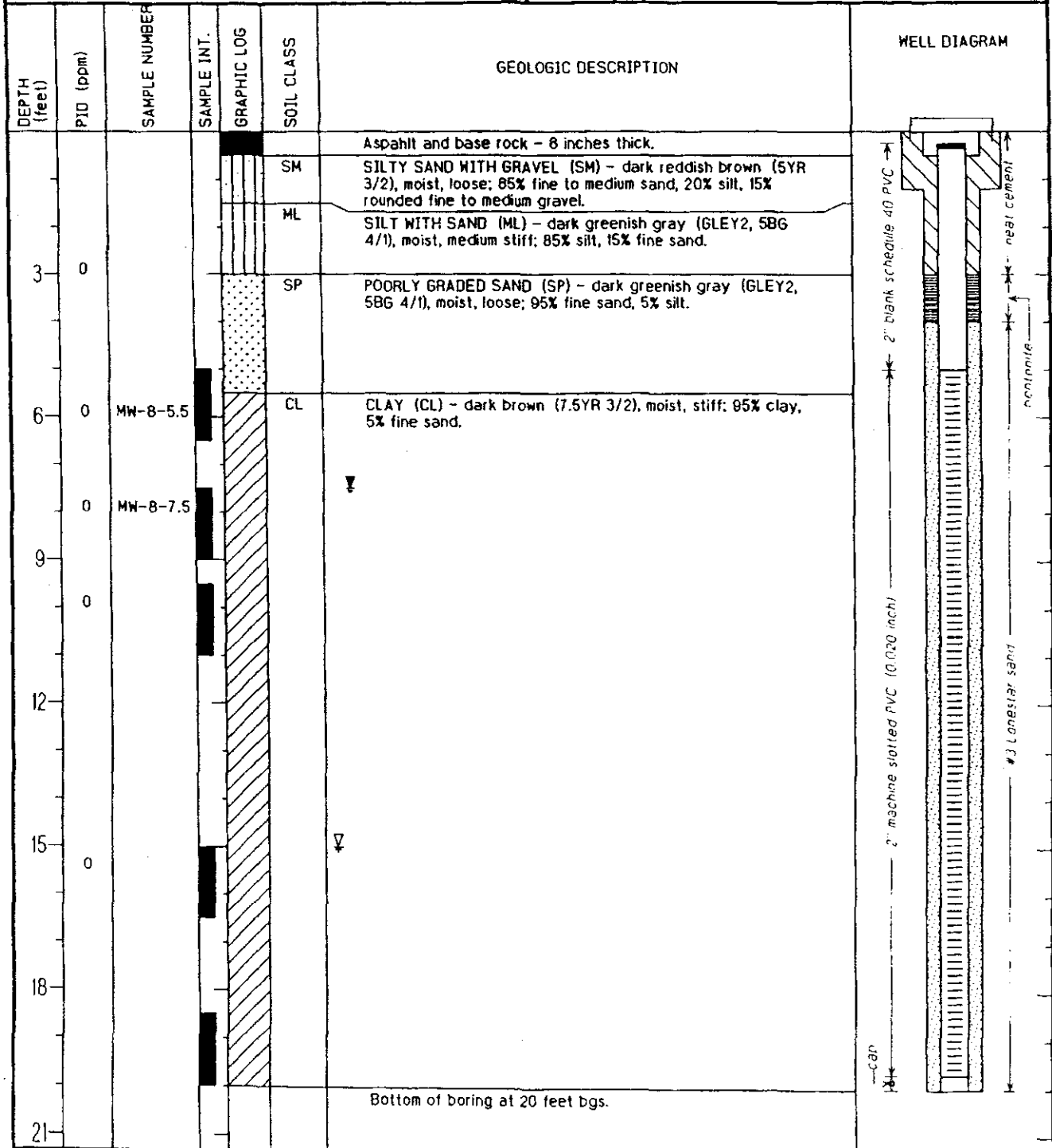
WL (ft. bgs): *7.5* DATE: *09/28/01* TIME: *13:45*

DRILLING METHOD: *8" Hollow stem auger*

TOTAL DEPTH: *20 feet*

DRILLING COMPANY: *Gregg Drilling*

GEOLOGIST: *Andrew Smith*



Gettler-Ryan, Inc.

Log of Boring MW-9

PROJECT: <i>Tosco (76) Service Station No. 6419</i>	LOCATION: <i>6401 Dublin Boulevard, Dublin, California</i>
GR PROJECT NO.: <i>140101.04</i>	CASING ELEVATION:
DATE STARTED: <i>09/28/01</i>	WL (ft. bgs): <i>18.5</i> DATE: <i>09/28/01</i> TIME: <i>13:15</i>
DATE FINISHED: <i>09/28/01</i>	WL (ft. bgs): <i>7.24</i> DATE: <i>09/28/01</i> TIME: <i>13:50</i>
DRILLING METHOD: <i>8" Hollow stem auger</i>	TOTAL DEPTH: <i>20 feet</i>
DRILLING COMPANY: <i>Gregg Drilling</i>	GEOLOGIST: <i>Andrew Smith</i>

DEPTH (feet)	PID (ppm)	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
						Asphalt and base rock - 6 inches thick.	
3					CL	CLAY WITH GRAVEL (CL) - very dark grayish brown (2.5Y 3/2), moist, medium stiff; 75% clay, 20% medium to coarse gravel, 5% fine to medium sand (fill).	
6	0	MW-9-5.5				CLAY (CL) - black (2.5Y 2.5/1), moist, medium stiff; 90-95% clay, 5-10% silt.	
7	0	MW-9-7.5					
9	0						
12							
15	0					Color changes to olive brown (2.5Y 4/3).	
18	0				SP-SC	POORLY GRADED SAND WITH CLAY (SP-SC) - grayish brown (2.5Y 5/2), wet, medium dense; 90% fine sand, 10% clay.	
21						Bottom of boring at 20 feet bgs.	