# **Atlantic Richfield Company**

**Shannon Couch**Operations Project Manager

PO Box 1257 San Ramon, CA 94583 Phone: (925) 275-3804 Fax: (925) 275-3815 E-Mail: shannon.couch@bp.com

December 20, 2012

# **RECEIVED**

By Alameda County Environmental Health at 1:40 pm, Jan 02, 2013

Re: Monitoring/Remediation Well Destruction Report

Atlantic Richfield Company Station #608

17601 Hesperian Boulevard, San Lorenzo, California

ACEH Case #RO0000255

I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by,

Shannon Couch

Operations Project Manager

Attachment



#### Creating Solutions, Building Trust.

December 20, 2012

J#06-88-606

Atlantic Richfield Company P.O. Box 1257 San Ramon, CA 94583 Submitted via ENFOS

Attn.: Ms. Shannon Couch

RE: Monitoring/Remediation Well Destruction Report, Atlantic Richfield Company Station #608,

17601 Hesperian Boulevard, San Lorenzo, Alameda County, California;

GeoTracker Global ID T0600100085, ACEH Case No.R0000255

Dear Ms. Couch,

Broadbent & Associates, Inc. (Broadbent) is pleased to present this report confirming that the monitoring and remediation wells formerly associated with Atlantic Richfield Company (a BP affiliated company) Station #608 have been formally destroyed. Broadbent prepared this report in response to the October 27, 2011 letter from Mr. Paresh Khatri of Alameda County Environmental Health Services (ACEH) stating that the monitoring wells associated with the site must be properly destroyed in accordance with the California Water Code prior to issuance of a remedial action completion certificate.

Atlantic Richfield Company Station #608 is located at 17601 Hesperian Boulevard in San Lorenzo, Alameda County, California. A Site Location Map is provided as Drawing 1. A petroleum fuel release was documented in June 1988 when the underground storage tanks (USTs) were removed and replaced. The leaking UST case was subsequently recognized by ACEH as Case No. R0000255, and by the State Water Resources Control Board/San Francisco Bay Regional Water Quality Control Board as GeoTracker Global ID T0600100085. During the ensuing years, a total of 28 monitoring and remediation wells were installed within 26 borings on the Site and within the surrounding vicinity. Seven wells were destroyed between 1988-1996, leaving 21 wells remaining. Table 1 provides a summary of original construction and subsequent destruction information for the wells associated with this case, including construction date, casing material and diameter, boring depth, well depth/screen interval, and date destroyed. A Site Layout Plan is provided as Drawing 2. Boring/Well Construction Logs for the remaining 21 wells are provided within Attachment A.

In accordance with the request from ACEH, Broadbent performed a well records search and secured permits from the Alameda County Public Works Agency (ACPWA) Water Resources Section to appropriately destroy the remaining monitoring and remediation wells associated with the case. The original Well Permit Application 1332262226862 was approved by ACPWA Water Resources on April 11, 2012. Three wells identified on the well permit application as V-1, V-2, and V-3 (Permit Number W2012-0232) actually were not wells associated with the past petroleum release case but in fact were facilities installed within the backfill of the UST pits as early leak-detection monitoring points. These monitoring points are still in use by and/or of value to the retail station operations and therefore were not destroyed. This use and method of original construction explained why ACPWA had no records of these three wells. A copy of the approved ACPWA Water Resources Well Permit Application (Permit Numbers W2012-0213 to W2012-0232) is provided within Attachment B.

During July 9-13, 2012 Broadbent observed Cascade Drilling, LLC (C-57 license #938110) perform destruction of most of the wells under permit. One hold-out well onsite (MW-13) was later destroyed under permit by Gregg Drilling & Testing, Inc. (C-57 license #485165) on November 20, 2012. For the monitoring and remediation well locations associated with this case within the Alameda County street right-of-ways (ROWs), the well vaults were removed and the top five feet of the wells over-drilled (typical) following grouting with neat cement through a tremie pipe. These wells in the street ROWs were then backfilled with quick-set concrete to approximately six inches below grade, then subsequently prepped and paved under separate contract by Calvac Paving, Inc. with hot-mix bituminous asphalt to match existing road conditions. For the remaining locations, the wells were destroyed by grouting with neat cement through a tremie pipe followed by removal of the monitoring well vaults. After the grout seals had set, the remaining voids were backfilled with concrete or compacted material to match existing conditions.

Well destruction activities were performed under the oversight and approval of the ACPWA Water Resources Section Field Inspector. Following completion of field work, California Department of Water Resources (DWR) Form 188 Well Completion Reports were prepared and signed by the drilling companies. Copies of the signed Well Completion Reports were submitted to ACPWA and the DWR in accordance with the California Water Code. Copies of Broadbent field notes are provided within Attachment C. Copies of the signed DWR Well Completion Reports are provided within Attachment D.

With the evidence provided herein, Broadbent and BP have satisfied the request from ACEH to properly destroy the wells associated with this former petroleum release case. Therefore, following submittal of this report to ACEH, BP and Broadbent shall look forward to receipt of a remedial action completion certificate for the case at Atlantic Richfield Company Station #608.

Should you have any questions or require additional information, please do not hesitate to contact me at (530) 566-1400.

Sincerely,

**BROADBENT & ASSOCIATES, INC.** 

Thomas A. Venus, PE

Senior Engineer

Attachments:

Drawing 1 – Site Location Map

Drawing 2 – Site Map

Table 1 – Summary of Well Construction and Destruction Information

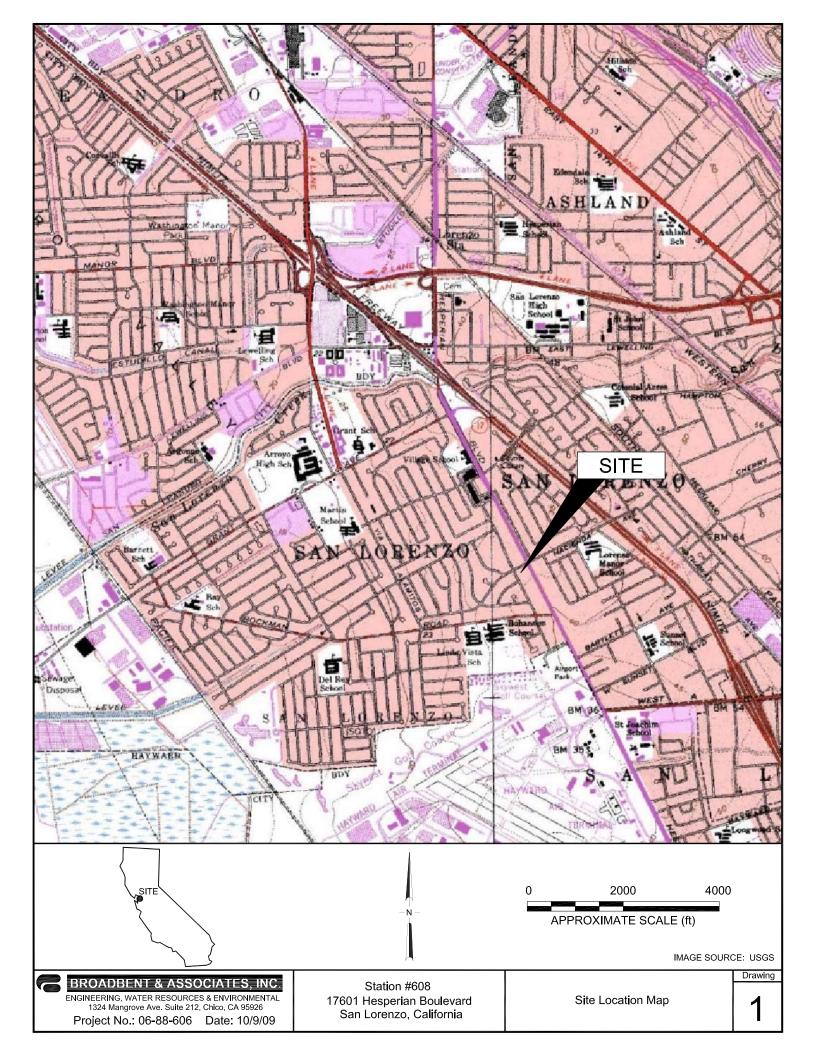
Attachment A – Boring/Well Construction Logs

Attachment B - ACPWA Well Permit Application

Attachment C - Broadbent Field Notes

Attachment D - DWR Well Completion Reports

cc: Ms. Dilan Roe, PE, Alameda County Environmental Health (submitted via ACEH ftp site)
Mr. Robert L. Webster, David Bohannon Organization, Sixty 31<sup>st</sup> Avenue, San Mateo, CA 94403
Electronic copy uploaded to GeoTracker



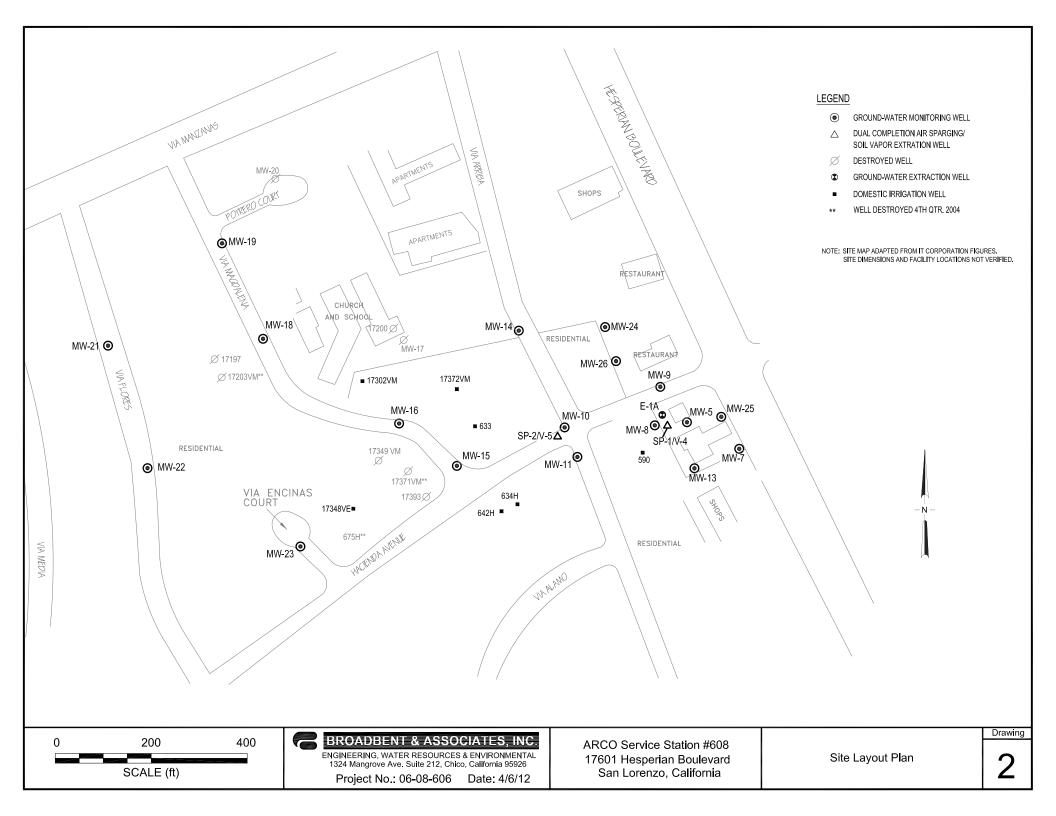


Table 1. Summary of Well Construction and Destruction Information Atlantic Richfield Company Station #608, 17601 Hesperian Boulevard, San Lorenzo, California

Well ID	Location (APN or ROW)	Date Constructed	Casing Diameter (in)	Casing Material	Boring Depth (ft)	Screen Interval (ft)	Date of Destruction	
MW-1	412-71-2-3	1/19/1988	4.0	PVC	29.0	4.0-29.0	6/14/1988	
MW-2/A-1	412-71-2-3	10/7/1985	3.0	PVC	24.0	11.0-24.0	6/14/1988	
MW-3	412-71-2-3	unknown	8.0	Steel	14.0	unknown	7/18/1990	
MW-4	412-71-2-3	unknown	8.0	Steel	11.6	unknown	7/18/1990	
MW-5	412-71-2-3	1/19/1988	4.0	PVC	14.5	4.0-14.5	7/12/2012	
MW-6/E-1	412-71-2-3	unknown	8.0	Steel	unknown	unknown	7/18/1990	
MW-7	412-71-2-3	3/29/1990	3.0	PVC	22.0	6.0-19.0	7/12/2012	
MW-8	412-71-3-36	3/29/1990	3.0	PVC	21.5	6.5-21.5	7/12/2012	
MW-9	County ROW	4/5/1990	3.0	PVC	22.0	6.0-19.5	7/12/2012	
MW-10	County ROW	4/5/1990	3.0	PVC	25.5	6.0-23.0	7/11/2012	
MW-11	County ROW	4/5/1990	3.0	PVC	20.5	6.0-19.5	7/11/2012	
MW-12/E-1A	412-71-2-3	7/18/1990	6.0	PVC	27.0	6.0-26.0	7/13/2012	
MW-13	412-71-2-3	6/25/2001	3.0	PVC	25.5	8.0-23.0	11/20/2012	
MW-14	County ROW	6/25/1991	3.0	PVC	24.5	8.0-23.0	7/9/2012	
MW-15	County ROW	6/25/1991	3.0	PVC	24.5	8.0-23.0	7/10/2012	
MW-16	County ROW	6/25/1991	2.0	PVC	24.0	8.0-23.0	7/10/2012	
MW-17	412-55-76-2	6/25/1991	2.0	PVC	23.0	8.0-23.0	3/13/1996	
MW-18	County ROW	10/3/1991	3.0	PVC	24.5	6.5-22.0	7/10/2012	
MW-19	County ROW	10/3/1991	3.0	PVC	24.5	7.0-22.0	7/11/2012	
MW-20	County ROW	10/3/1991	3.0	PVC	22.0	7.0-22.0	10/11/1993	
MW-21	County ROW	10/2/1991	3.0	PVC	25.0	7.0-22.0	7/9/2012	
MW-22	County ROW	10/2/1991	3.0	PVC	23.5	7.0-22.0	7/9/2012	
MW-23	County ROW	10/2/1991	3.0	PVC	23.5	7.0-22.0	7/13/2012	
MW-24	412-58-7-5	3/17/1993	2.0	PVC	21.0	6.0-21.0	7/12/2012	
MW-25	412-71-2-3	3/17/1993	2.0	PVC	21.0	6.0-21.0	7/12/2012	
MW-26	412-58-7-5	3/19/1993	2.0	PVC	21.5	6.0-21.0	7/12/2012	
SP-1/V-4	412-71-2-3	3/18/1993	2.0/2.0	PVC	22.5	20.0-21.0/ 6.0· 15.0	7/12/2012	
SP-2/V-5	County ROW	3/18/1993	2.0/2.0	PVC	19.0	18.0-19.0/ 6.0· 11.0	7/11/2012	

 $Note: Destruction/decommissioning\ information\ for\ Well\ ID's\ in\ \textbf{Bold}\ font\ are\ contained\ within\ this\ report.$ 

# Attachment A Boring/Well Construction Logs

0 -	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	CONS
2 -	10	S-I	СН	Silty clay, black, damp, high plasticity, stiff.	
4 -	15	S-4 <b>T</b>	CL	Silty clay, trace of coarse-grained sand and gravel, brown, damp, low plasticity, stiff.	
6 -	14	S-6.5I		Low to medium plasticity.	
8 -	11	S-9	SC	Clayey sand, fine- to coarse-grained sand, trace of silt, green-gray, very moist, no plasticity, medium dense.	
12 -	6	S-12	CH CH	Silty clay, green-brown, moist, high plasticity, medium stiff.	
14 -	15	S-14	CL	Silty clay, trace of medium-grained gravel, green-gray, moist, high plasticity, stiff.	
18 -	7	s-20	СН	Silty clay, brown, moist, high plasticity, medium stiff.	
22 -			SP	Sand, medium- to coarse-grained, trace of gravel, brown, wet, no plasticity, medium dense.	
24 -	13	S-25			
28	_	_			Cave
30	9	s-30		Total Depth = 30 feet. Boring terminated at sufficient depth to evaluate	

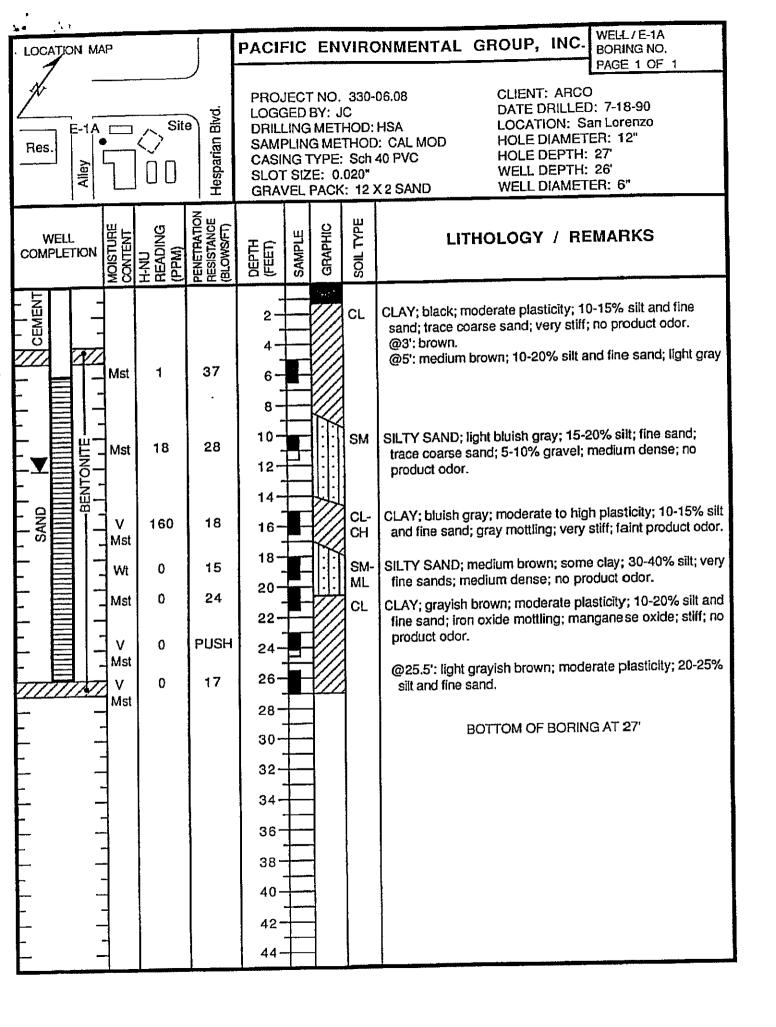


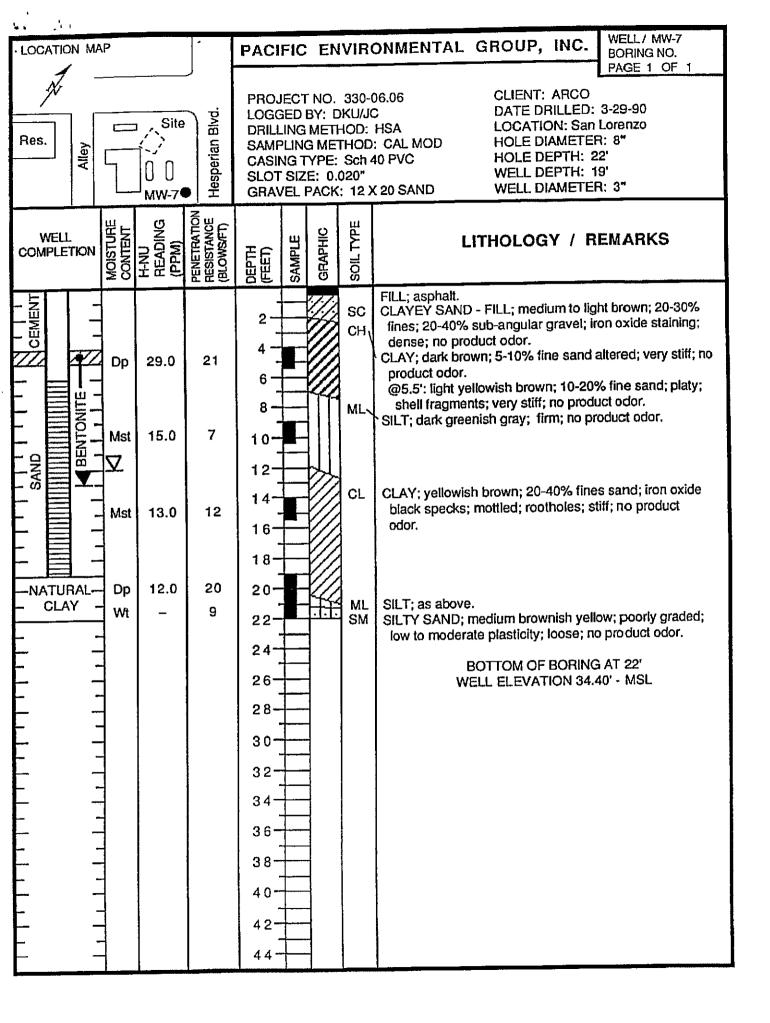
LOG OF BORING B-2/MW-5
ARCO Station No. 608
17601 Hesperian Boulevard
San Lorenzo, California

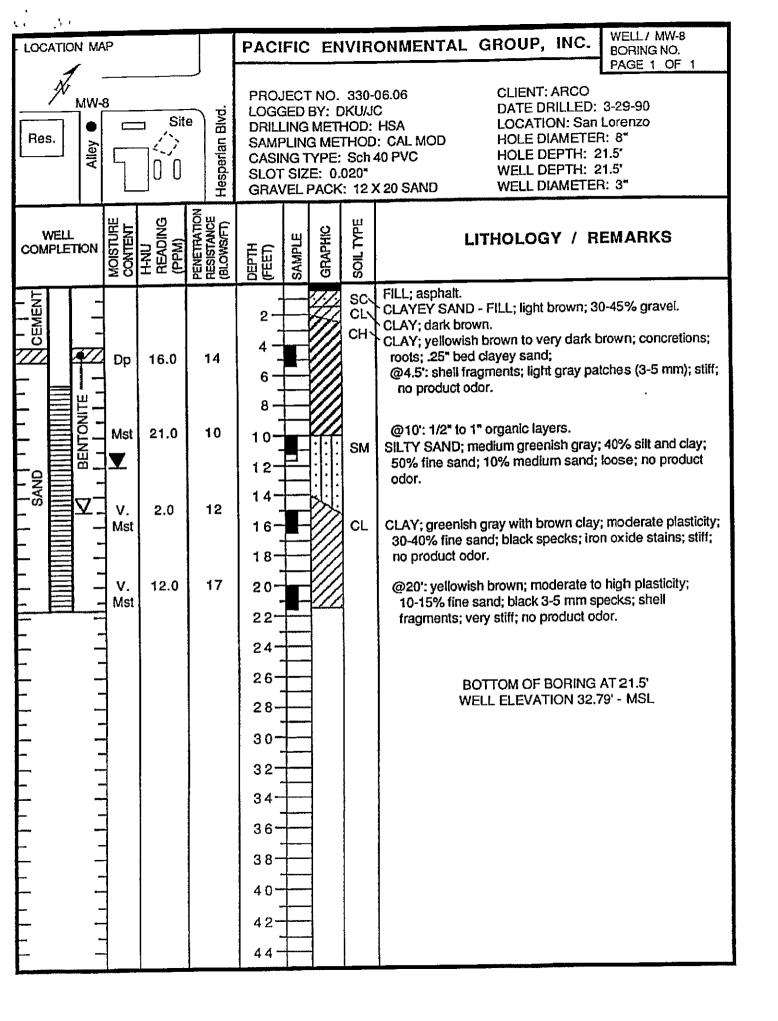
P - 8

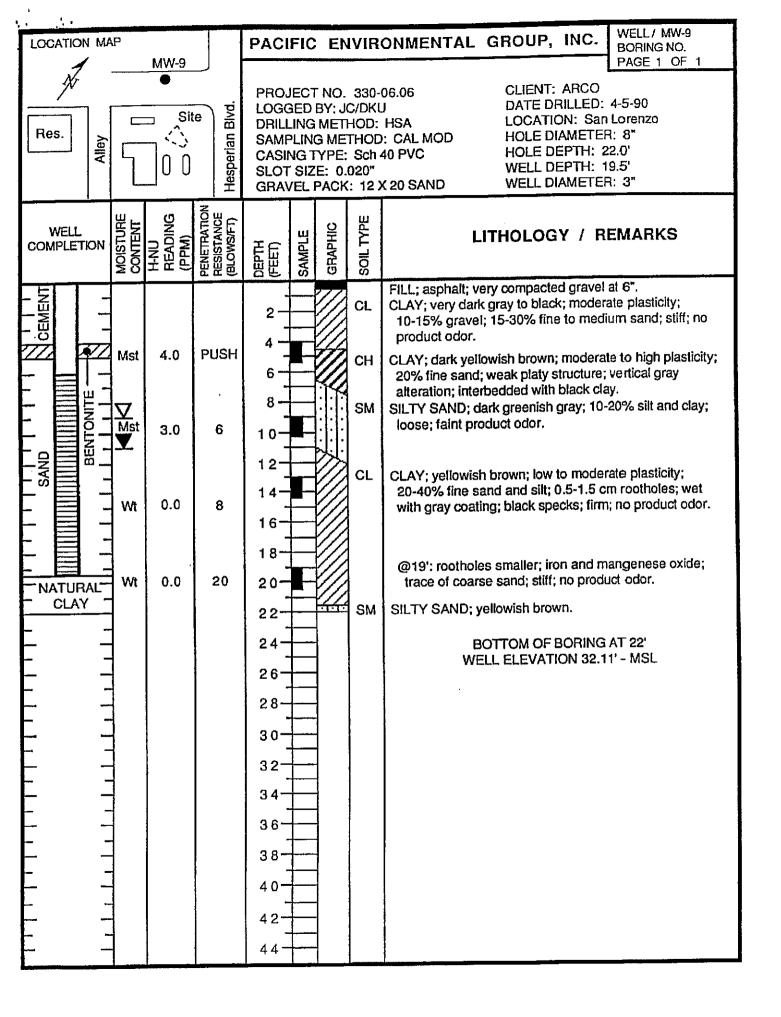
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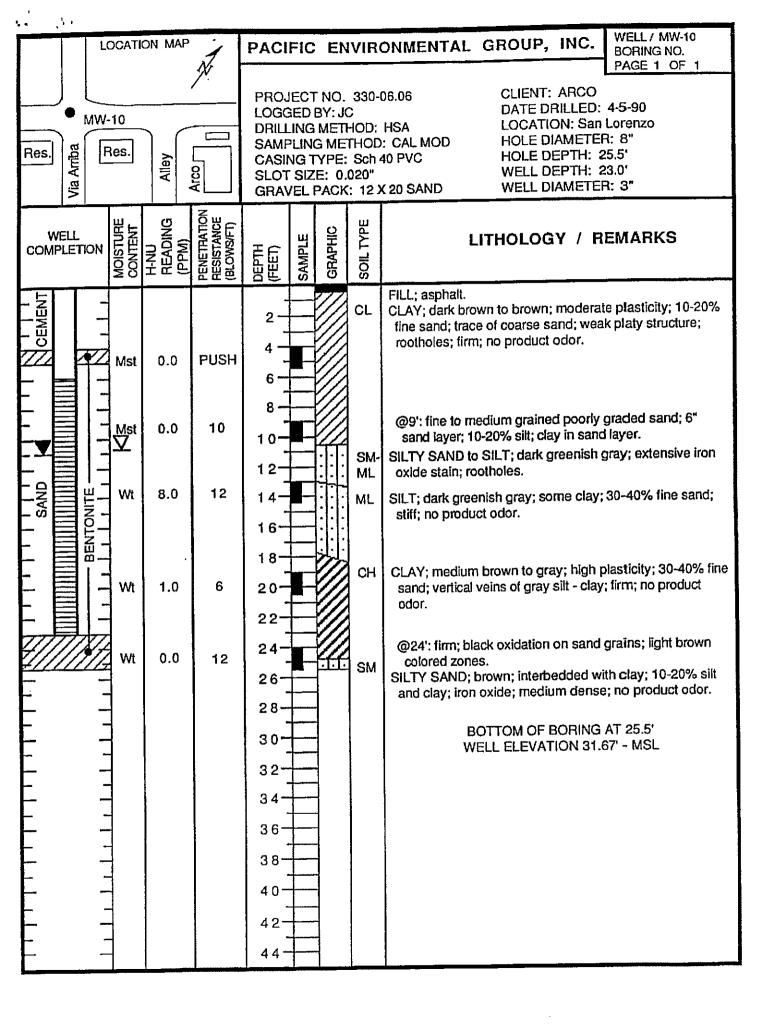
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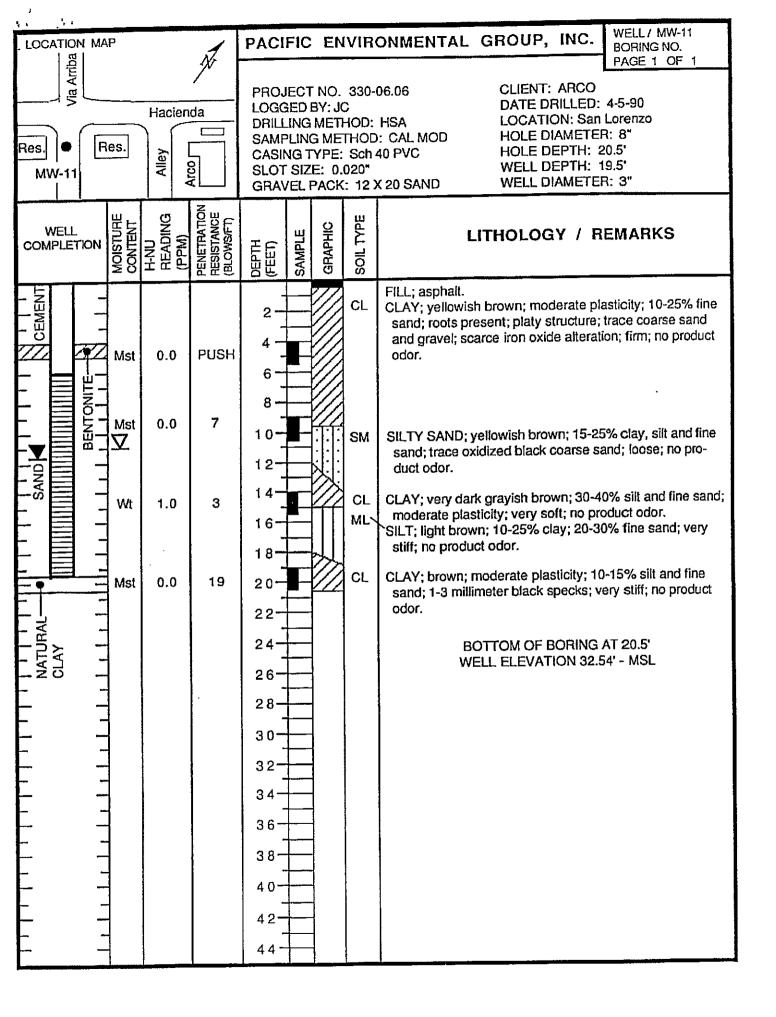


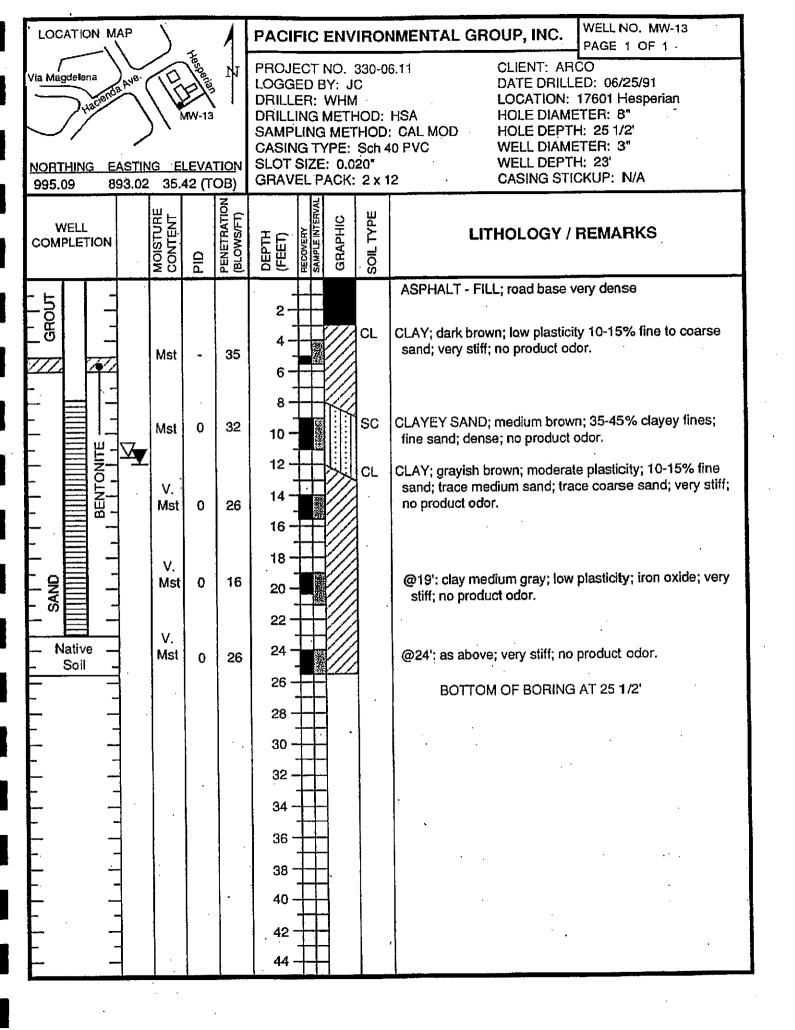


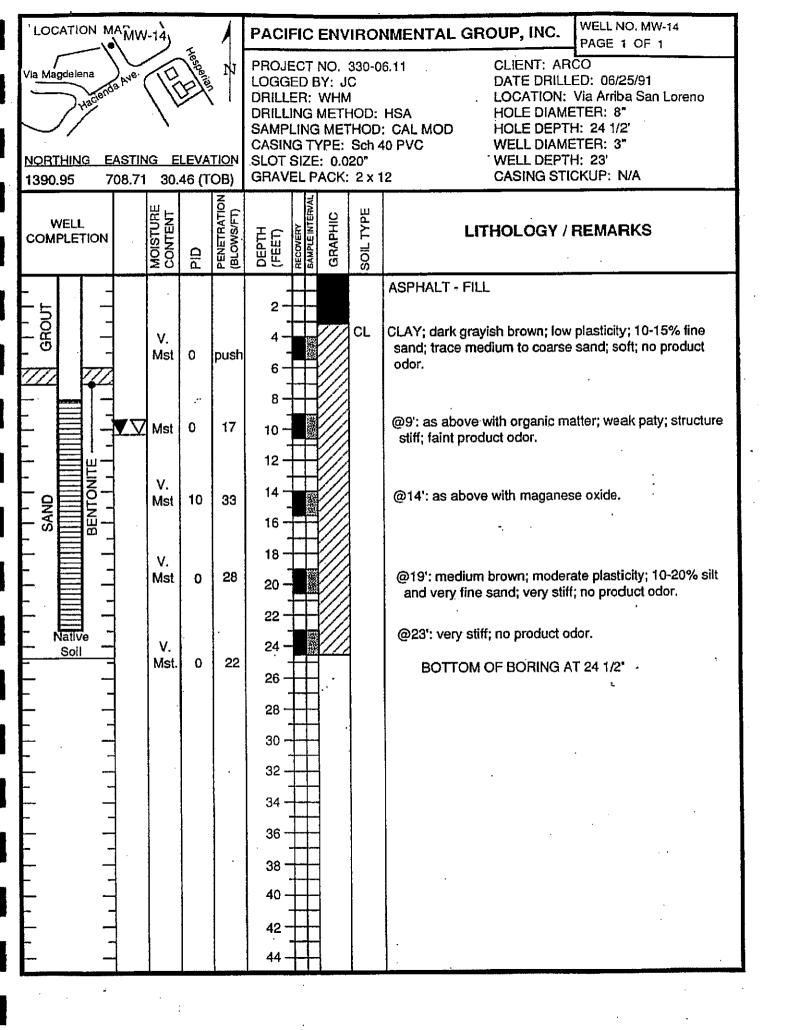


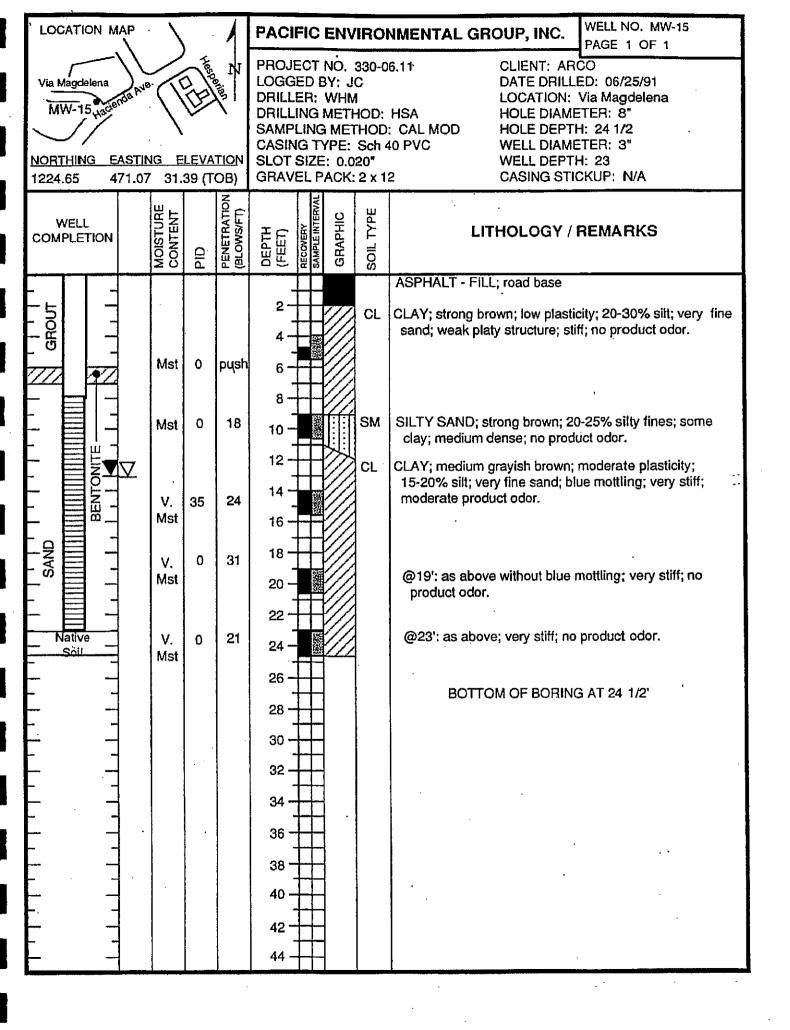


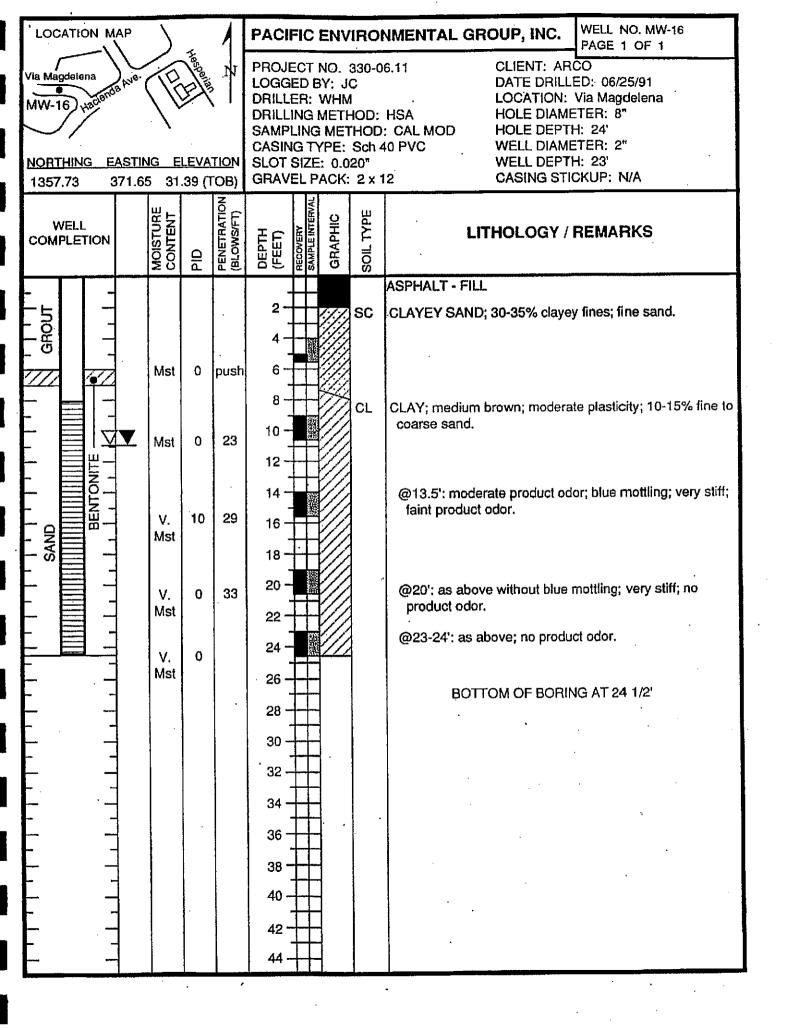


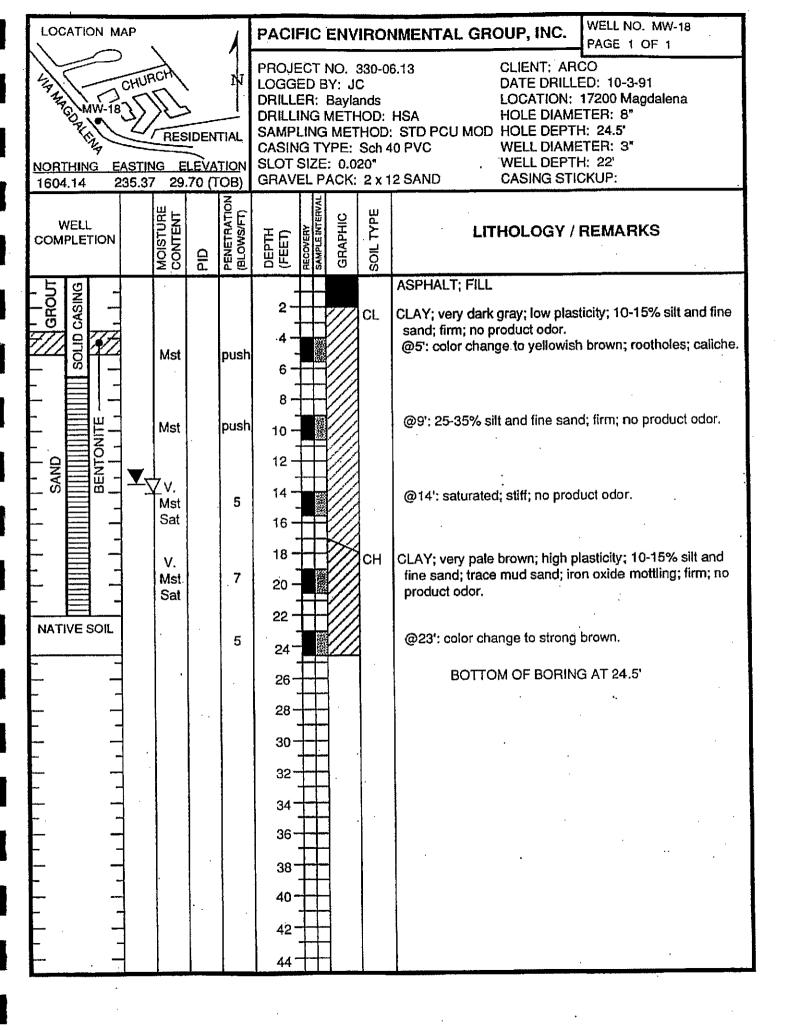


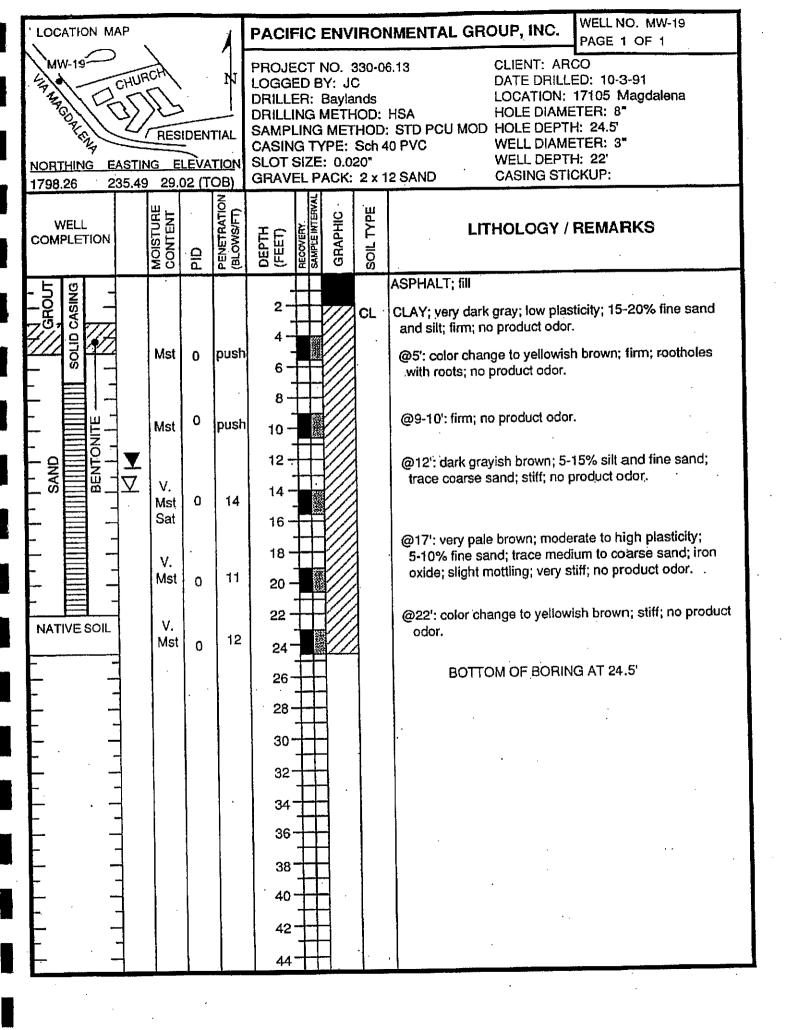


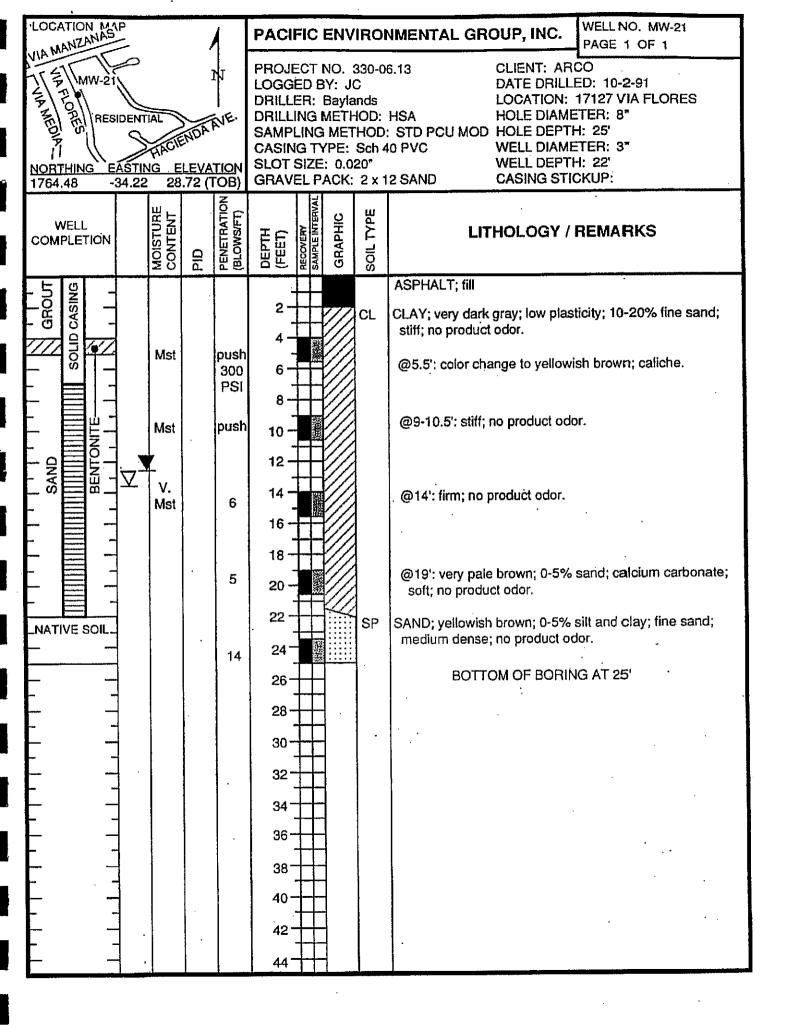


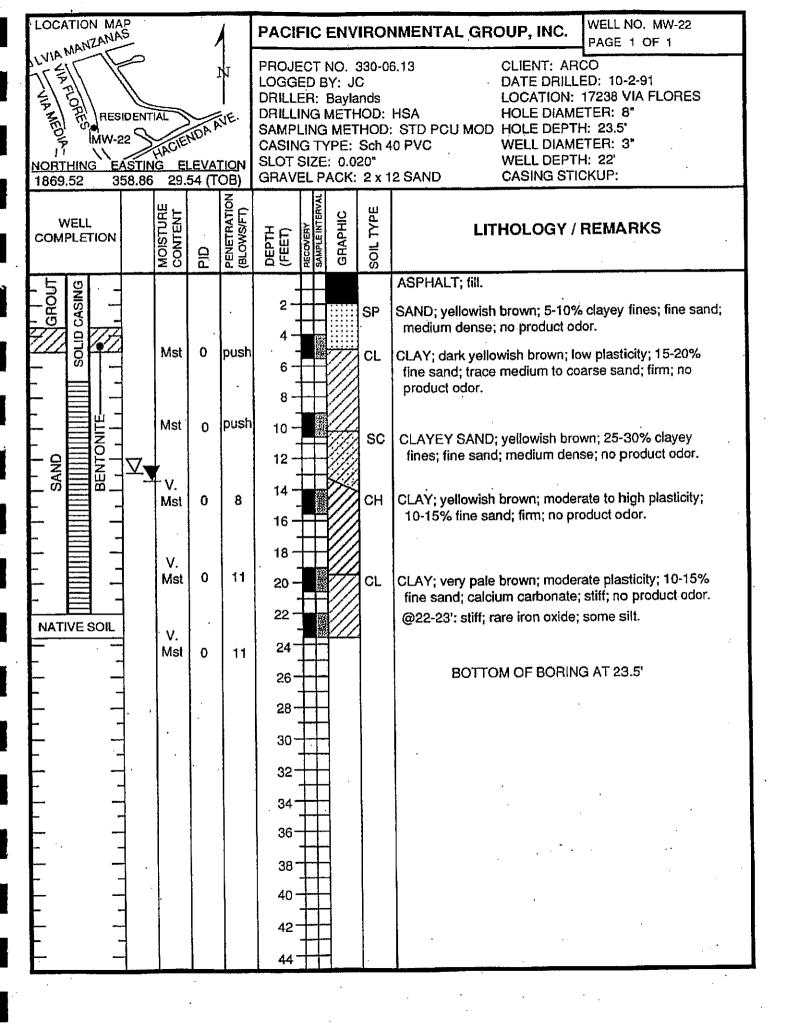


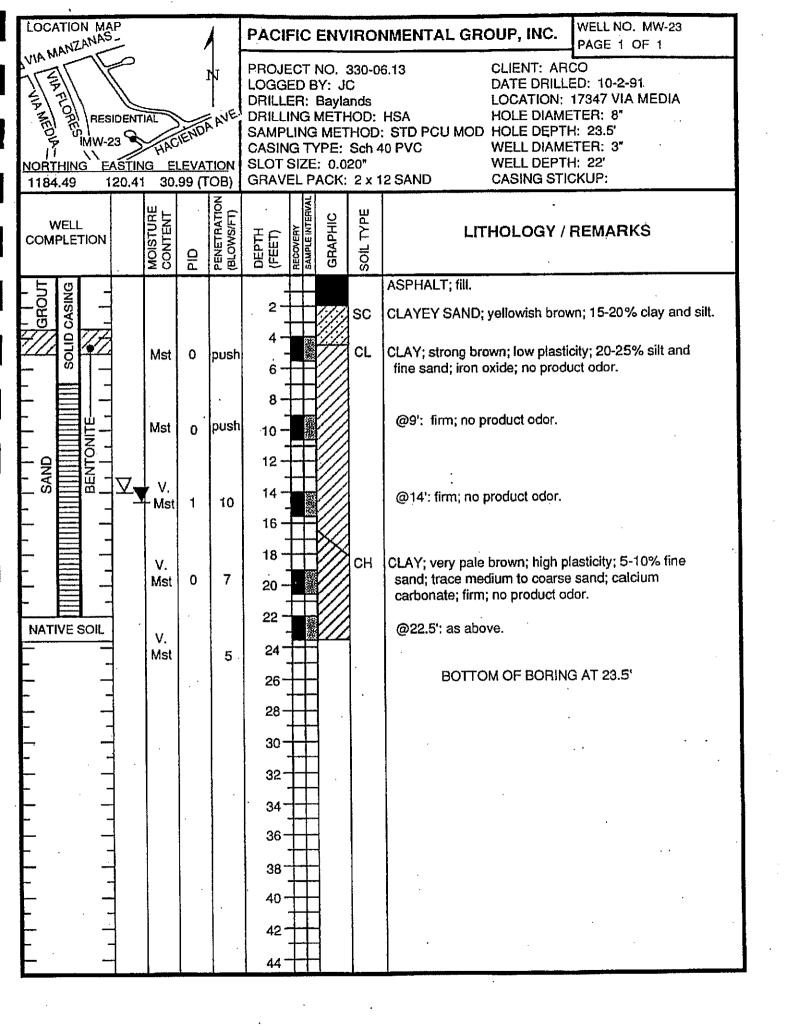


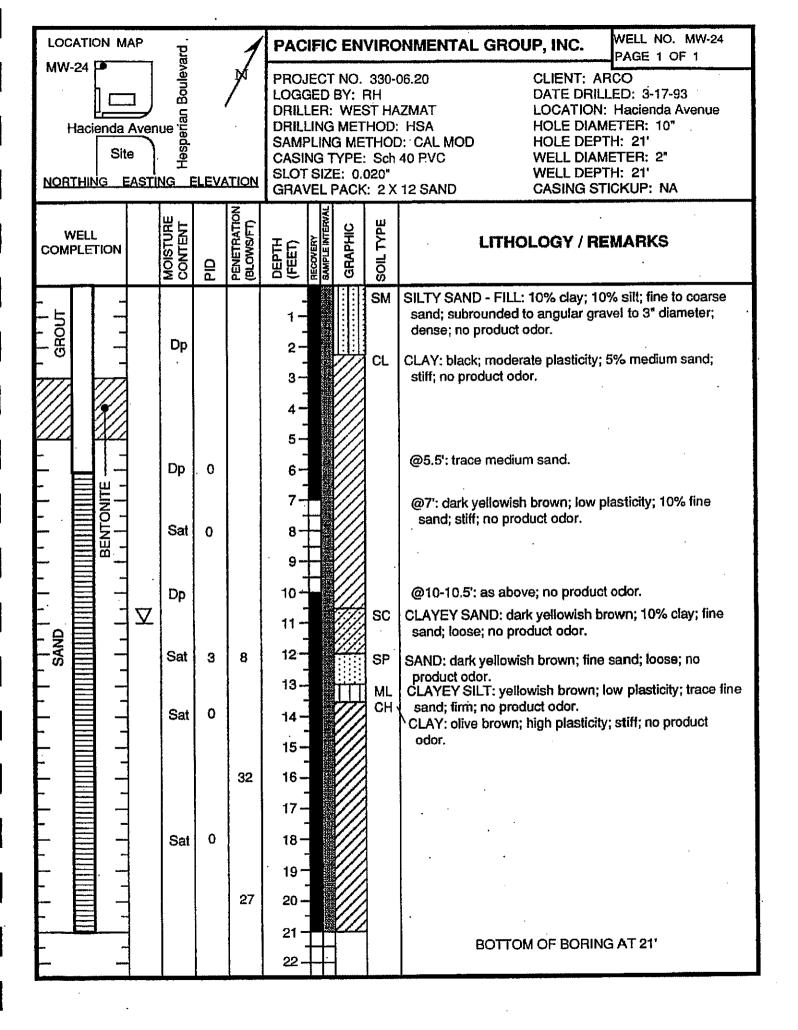


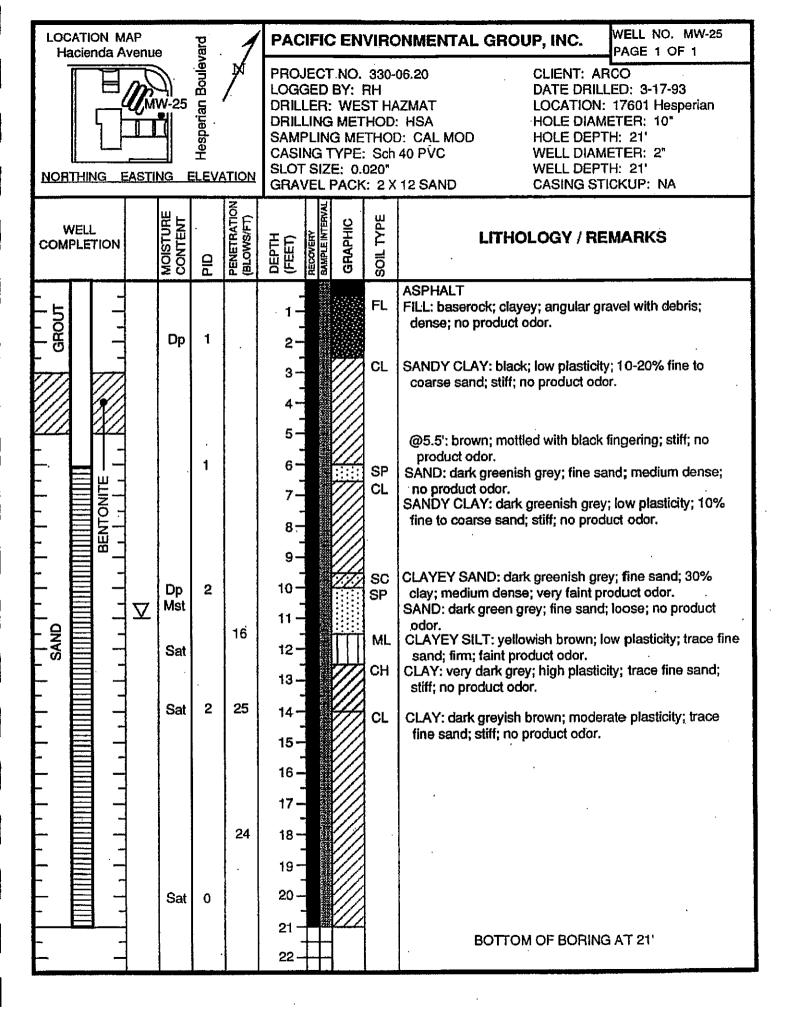


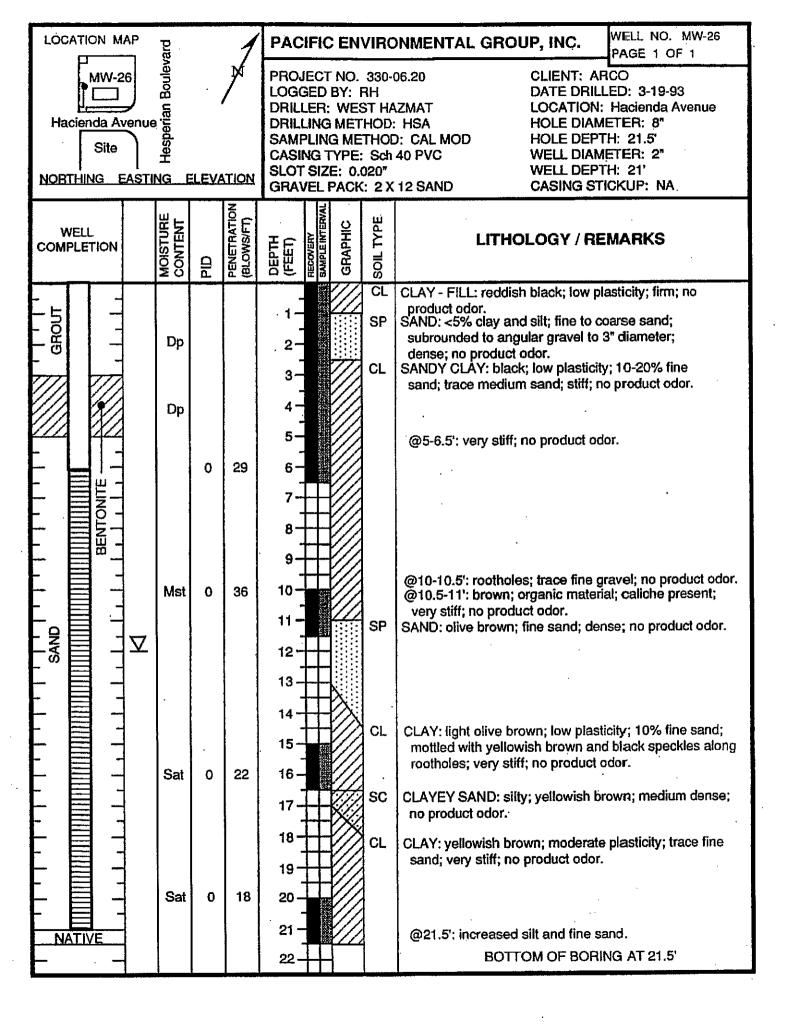


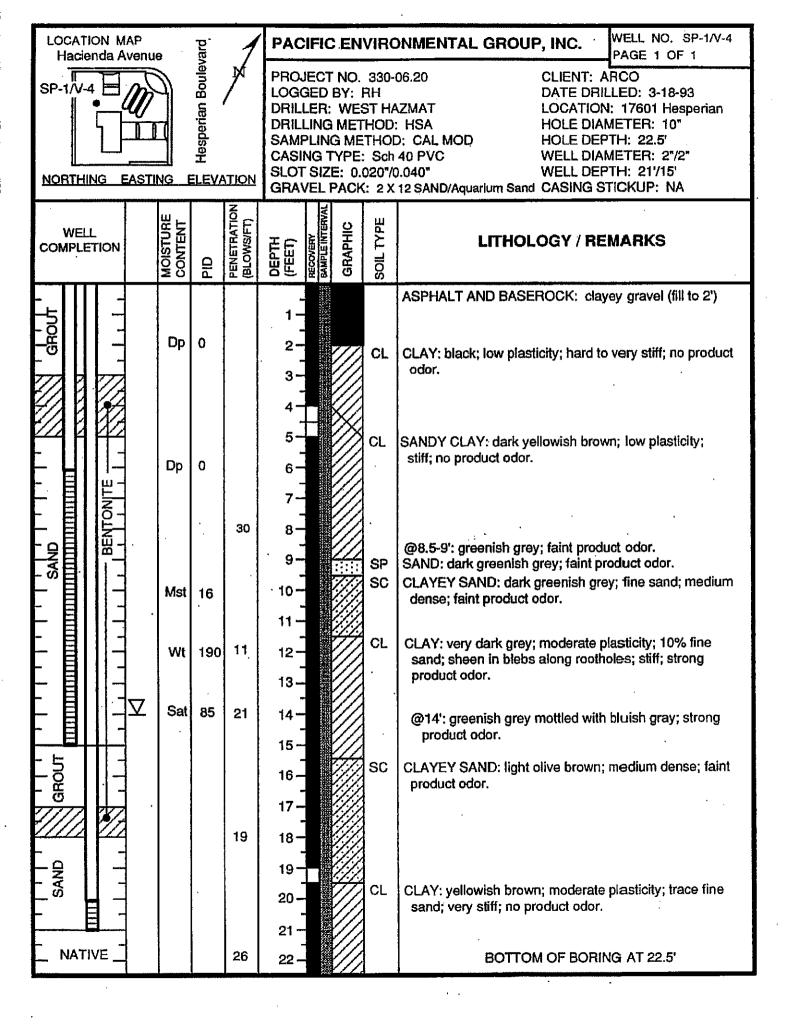


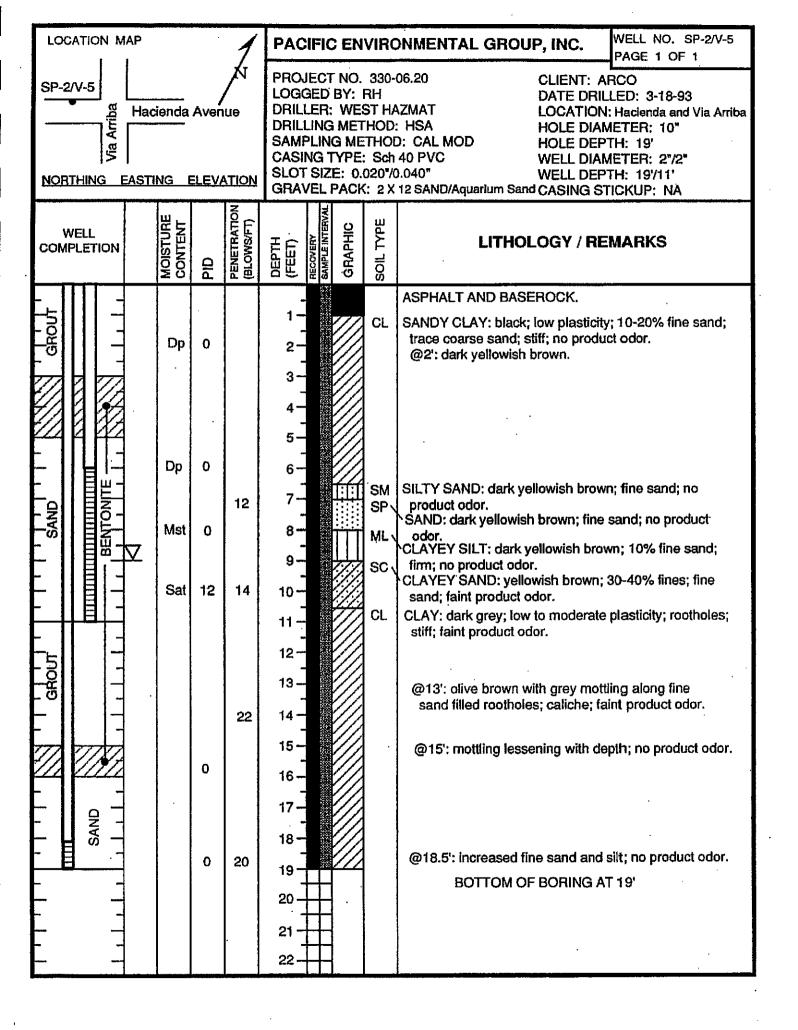












# Attachment B ACPWA Well Permit Application



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 04/11/2012 By jamesy Permit Numbers: W2012-0213 to W2012-0232 Permits Valid from 11/20/2012 to 11/20/2012

Application Id: 1332262226862 City of Project Site: San Lorenzo

Site Location: 17601 Hesperian Boulevard

San Lorenzo, CA

Project Start Date: 05/21/2012 Completion Date:05/25/2012

Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Extension Start Date: 11/20/2012 Extension Count: 2 Extension End Date: 11/20/2012 Extended By: vickyh1

Applicant: Broadbent & Associates, Inc. - Jason Duda Phone: 530-566-1400

1324 Mangrove Ave., Suite 212, Chico, CA 95926

Property Owner: BP West Čoast Products, LLC P.O. Box 5015, Buena Park, CA 90622

Client: \*\* same as Property Owner \*\*

**Contact:** Jason Duda **Phone:** 530-566-1400 **Cell:** 530-592-6822

**Total Due:** \$7808.00

Phone: 925-275-3804

Receipt Number: WR2012-0101 Total Amount Paid: \$7808.00
Payer Name: Jason Duda Paid By: MC PAID IN FULL

#### **Works Requesting Permits:**

Well Destruction-Monitoring - 19 Wells

Driller: Cascade Drilling [Gregg Drilling & Testing, Inc 485165 c57] - Lic #: 938110 Work Total: \$7543.00

- Method: press

#### **Specifications**

Permit #	Issued Date	Expire Date	Owner Well	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2012- 0213	04/11/2012	08/19/2012	MW-10	8.00 in.	3.00 in.	5.00 ft	23.00 ft	3S/2W18G1 0	90048	319828
W2012- 0214	04/11/2012	08/19/2012	MW-11	8.00 in.	3.00 in.	5.00 ft	19.50 ft	3S/2W18G1 1	90048	319847
W2012- 0215	04/11/2012	08/19/2012	MW-12/E- 1A	12.00 in.	6.00 in.	5.00 ft	26.00 ft	3S/2W18G1 2	90419	328490
W2012- 0216	04/11/2012	08/19/2012	MW-13	8.00 in.	3.00 in.	6.00 ft	23.00 ft	3S/2W18G1 3	91198	383461
W2012- 0217	04/11/2012	08/19/2012	MW-14	8.00 in.	3.00 in.	5.00 ft	23.00 ft	3S/2W18G1 9	91198	298641
W2012- 0218	04/11/2012	08/19/2012	MW-15	8.00 in.	3.00 in.	5.00 ft	23.00 ft	3S/2W18G1 5	91198	298637
W2012- 0219	04/11/2012	08/19/2012	MW-16	8.00 in.	2.00 in.	5.00 ft	23.00 ft	3S/2W18G1 6	91198	298638
W2012- 0220	04/11/2012	08/19/2012	MW-18	8.00 in.	3.00 in.	5.00 ft	22.00 ft	3S/2W18F0 5	91518	298680
W2012- 0221	04/11/2012	08/19/2012	MW-19	8.00 in.	3.00 in.	5.00 ft	22.00 ft	3S/2W18C0 2	91518	298679
W2012- 0222	04/11/2012	08/19/2012	MW-21	8.00 in.	3.00 in.	5.00 ft	22.00 ft	3S/2W18C0 4	91518	298678
W2012- 0223	04/11/2012	08/19/2012	MW-22	8.00 in.	3.00 in.	5.00 ft	22.00 ft	3S/2W18F0 6	91518	298676
W2012- 0224	04/11/2012	08/19/2012	MW-23	8.00 in.	3.00 in.	5.00 ft	22.00 ft	3S/2W18F0 7	91518	298675

W2012- 0225	04/11/2012	08/19/2012	MW-24	10.00 in.	2.00 in.	5.00 ft	21.00 ft	3S/2W18G1 8	No Records	No Records
W2012- 0226	04/11/2012	08/19/2012	MW-25	10.00 in.	2.00 in.	5.00 ft	21.00 ft	3S/2W18G2 1	93091	464306
W2012- 0227	04/11/2012	08/19/2012	MW-26	8.00 in.	2.00 in.	5.00 ft	21.00 ft	3S/2W18G2 2	93091	464306
W2012- 0228	04/11/2012	08/19/2012	MW-5	10.00 in.	4.00 in.	3.00 ft	14.50 ft	No Records	No Records	No Records
W2012- 0229	04/11/2012	08/19/2012	MW-7	8.00 in.	3.00 in.	5.00 ft	19.00 ft	3S/2W18G7	90048	328451
W2012- 0230	04/11/2012	08/19/2012	MW-8	8.00 in.	3.00 in.	5.00 ft	21.50 ft	3S/2W18G8	90048	332625
W2012- 0231	04/11/2012	08/19/2012	MW-9	8.00 in.	3.00 in.	5.00 ft	19.50 ft	3S/2W18G9	90048	332624

#### **Specific Work Permit Conditions**

- 1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
- 4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
- 5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
- 6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
- 8. Remove the Christy box or similar structure. Destroy wells by overdrilling the upper 5ft. BGS & then Tremie Grouting

with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing. (MW-8,MW-9, MW-10, MW-11, MW-14, MW-15, MW-16, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, MW-26).

- 9. Remove the Christy box or similar structure. Destroy wells MW-5, MW-7, MW-12/E-1A, MW-13 and MW-25 by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.
- 10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

Remediation Well Destruction-Extraction - 5 Wells

Driller: Cascade Drilling - Lic #: 93810 - Method: other Work Total: \$265.00

#### **Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2012- 0232	04/11/2012	08/19/2012	SP-1/V-4	10.00 in.	2.00 in.	5.00 ft	21.00 ft	3S/2W18G1 9	93091	424907
W2012- 0232	04/11/2012	08/19/2012	SP-2/V-5	10.00 in.	2.00 in.	5.00 ft	19.00 ft	3S/2W18G2 0	93091	424907
W2012- 0232	04/11/2012	08/19/2012	V-1	8.00 in.	2.00 in.	5.00 ft	15.00 ft	No Records	No Records	No Records
W2012- 0232	04/11/2012	08/19/2012	V-2	8.00 in.	2.00 in.	5.00 ft	15.00 ft	No Records	No Records	No Records
W2012-	04/11/2012	08/19/2012	V-3	8.00 in.	2.00 in.	5.00 ft	15.00 ft	No Records	No Records	No Records

#### **Specific Work Permit Conditions**

- 1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 2. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
- 3. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
- 4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Remove the Christy box or similar structure. Destroy well by overdrilling & Tremie Grouting with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
- 6. Remove the Christy box or similar structure. Pressure Grout with Cement (Less than 30 ft in depth). After the seal has

set, backfill the remaining hole with concrete or compacted material to match existing.

- 7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 9. Remove the Christy box or similar structure. Destroy wells SP-1/V-4, SP-2/V-5, by overdrilling to total depth & then Tremie Grouting with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
- 10. Remove the Christy box or similar structure. Pressure Grout or Tremie grout with Cement (Less than 30 ft in depth)wells V-1, V-2 and V-3 on-site wells. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

#### Attachment C

**Broadbent Field Notes** 



## DAILY REPORT

Page \_ \\_ of \_ \\_

Field Representative(s): Infor Languet Tanes Rams Day: Monday Date: 7/9/12  Time Onsite: From: OPO() To:; From:To:; From: To:; From: To:; From: To:; From: To:; From: To: From: To:	Project:	110jeet No06-00 6006
Time Onsite: From: OPOO To:; From:To:; From:To:;  Signed HASP +Safety Glasses +Hard Hat +Steel Toe Boots Safety Vest  LUST Emergency System Shut-off Switches Located + Proper Gloves  Proper Level of Barricading Other PPE (describe)  Weather:	Field Repre	esentative(s): Toylor Lancelot / James Ramos Day: Monday Date: 7/9/12
UST Emergency System Shut-off Switches Located Proper Gloves  Proper Level of Barricading Other PPE (describe)  Weather: Overest, coll  Equipment In Use: Air knife pressure grout e rig  Visitors:  TIME: WORK DESCRIPTION:  OA15 Onsite, Coscade angile  Safety weeting  1030 EBMUD onsite, instructed up to be careful and backfill whative  103a EBMUD offsite  1040 Villi tembro what flowed Co. and temperature of the control of th	Time Onsite	e: From: <u>0900</u> To:; From:To:; From:To:
UST Emergency System Shut-off Switches Located Proper Gloves  Proper Level of Barricading Other PPE (describe)  Weather: Overest, coll  Equipment In Use: Air knife pressure grout e rig  Visitors:  TIME: WORK DESCRIPTION:  OA15 Onsite, Coscade angile  Safety weeting  1030 EBMUD onsite, instructed up to be careful and backfill whative  103a EBMUD offsite  1040 Villi tembro what flowed Co. and temperature of the control of th	<u>*</u> Sign	ed HASP + Safety Glasses + Hard Hat + Steel Toe Boots + Safety Vest
Weather: Oterast, coll  Equipment In Use: Air knife pressure grout e rig  Visitors:  TIME: WORK DESCRIPTION:  0915 Onsite, Coscade ansite  Safety weeting  EBMUD onsite, instructed us to be careful and backfill w/ native  1030 EBMUD offsite  1040 Vikhi Hemlin w/ Alameda Co. ansite  De not over drill SP-2/V-5, tao risky w/gas line, care w/ MV-23:  1040 New May ring, break off cosing.  Wells rear utilities, air limite to above utilities, remove ring and bax  Large woults ansite, many may not overdrill, will discuss w/ TU  1140 Set up an MW-14  1236 Finished grapt, begin bax removal  1300 Vikhi Hamlin offsite  1405 Break for lunch  1450 Done w/ MW-14, set up an MW-2	_*_ UST	Emergency System Shut-off Switches Located Proper Gloves
Visitors:  TIME:  WORK DESCRIPTION:  O915  Onsite Coscade ansite  Sofety weeting EBMUD assite, instructed as to be careful and backfill w/ nature  1030  EBMUD affaire  1040  Vibli Hemlin / Howeda Co. ansite  Do not over drill SP-2/V-5, too risky w/gas line, core w/ MV-23-  nemove My ring, break off cosing.  Wells rear utilities, air limite to above utilities, remove ring and bax  large vaults ansite, many may not averdrill, will discuss w/ TV  1140  Set up an MW-14  1236  Finished grout, begin box removal  1455  Break for lunch  1455  Done w/ MW-14 set up an MW-2	Prop	er Level of Barricading Other PPE (describe)
Visitors:  TIME:  WORK DESCRIPTION:  O915  Onsite, Coscade onsite  Safety weeting  EBMUD onsite, instructed us to be careful and backfill w/ native  1030  EBMUD offsite  Do not over drill SP-2/V-5, too risky w/gas line, care w/ MV-23*  Nemove Mya ring, break off cosing.  Wells rear utilities, air brife to above utilities, remove ring and box  large voults onsite, many may not overdrill, will discuss w/ TV  1340  Set up an MW-14  1236  Finished growt, begin box removal  1300  Villi Hamlin offsite  1405  Break for lunch  1435  Return from lunch  1450  Done W MW-14 set up an MW-2	Weather:	Overcost, coll
Visitors:  TIME:  WORK DESCRIPTION:  O915  Onsite Coscade onsite  Safety weeting  EBMUD onsite instructed as to be careful and backfill w/ native  1030  EBMUD offsite  1040  Viki Hemlin / Alameda Co. onsite  De not over drill SP-2/V-5, tao risky w/gas line one w/ MV-23  remove days ring, break off cosing.  Wells rear utilities, air brife to above utilities, remove ring and box  large voults onsite, many may not overdrill, will discuss w/ TV  1040  Sct up an MW-14  1236  Finished grout, begin box removal  1300  Vikli Hamlin offsite  1405  Break for lunch  1435  Return from lunch  1450  Done W MW-14 set up an MW-2	Equipment In	n Use: Air knife pressure about no ma
TIME:  OPIS Onsite: Coscade onsite  Safety meeting EBMUD onsite, instructed us to be careful and backfill w/ native  1030 EBMUD onsite, instructed us to be careful and backfill w/ native  1030 EBMUD offsite  1040 Villi Hemlin / Alameda Co. onsite  De not over drill SP-2/V-5, too risky w/gas line, core v/ MV-23*  Nemare Algaring, break off cosing.  Well's near utilities, air linife to above utilities, remove ring and bex  Large vaults onsite, many may not overdrill, will discuss w/ TV  1140 Set up an MW-14 1236 Finished grout, begin box removal  1300 Villi Hamlin offsite  1405 Break for lunch  1435 Return from lunch  1450 Done w/ MW-14 set up on MW-2		7-1, -00 0.2 1001 12 1.0
O915 Onsite, Cascade ansite  Safety meeting  EBMUD onsite, instructed as to be careful and backfill w/native  1030 EBMUD offsite  1040 Villi Hemlin w/ Alameda Co. ansite  De not over drill SP-2/V-5, too risky w/gas line, care w/ MV-23-  nemove dign ring, hreak off casing.  Wells rear utilities, air hnife to above utilities, remove ring and box  large voults ansite, many may not overdrill, will discuss w/ TU  1140 Set up an MW-14  1230 Villi Hamlin offsite  1405 Break for lunch  1450 Done w/ MW-14, set up an MW-21  1727 MU-21	Visitors:	
Onsite, Coscade ansite  Safety meeting  EBMUD ansite, instructed us to be careful and backfill w/native  1030  EBMUD ansite, instructed us to be careful and backfill w/native  1040  Villi Hemlin w/ Alameda Co. ansite  De not over drill SP-2/V-5, too risky w/gas line, care w/ MV-23-  remove May ring, break off cosing.  Wells near utilities, air linife to above utilities, remove ring and bex  large vaults ansite, many may not overdrill, will discuss w/ TV  1140  Set up an MW-14  1236  Finished growt, begin box removal  1300  Villi Hamlin offsite  1405  Break for lunch  1450  Done w/ MW-14, set up an MW-21	TIME:	WORK DESCRIPTION:
Safety meeting  EBMUD onsite, instructed us to be careful and backfill w/native  1033 EBMUD offsite.  1040 Villi Hamlin w/ Alameda Co. onsite  Do not over drill SP-2/V-5, too risky w/gas line, and w/mu-23.  Nemove My ring, break off cosing.  Wells near utilities, air linife to above utilities, remove ring and box  large vaults onsite, many may not overdrill, will discuss w/TU  1236 Finished gravi, begin box removal  1300 Vikli Hamlin offsite  1405 Break for lunch  1435 Return from lunch  1450 Done w/ Mw-14 set up on MW-2	0915	
EBMUD offsite.  1040  Vikhi Hemlin J/ Alameda Co. onsite  De not over drill SP-2/V-5, too risky w/gas line, we w/ MV-23-  remove Max ring, break off cosing.  Wells near utilities, air knife to above utilities, remove ring and box  large vaults onsite, max may not overdrill, will discuss w/TV  1140  Set up an MW-14  1236  Finished growt, begin box removal  1300  Vikki Hamlin offsite  1405  Break for lunch  1435  Return from lunch  1450  Done w/ MW-14, set up an MW-21  MY-21		
1040  Villi Hemlin W Alameda Co. onsite  Do not over drill SP-2/V-5, too risky w/gas line, core w/ MV-23-  nemove Mya ring, break off cosing.  Wells near utilities, air hnife to above utilities, remove ring and box  large vaults onsite, many may not overdrill, will discuss w/ TU  1340  Set up an MW-14  Finished grout, begin hax removal  1300  Vikli Hamlin offsite  1405  Break for lunch  1435  Return from lunch  1450  Done w/ MW-14 set up an MW-21	1030	EBMUD onsite instructed us to be careful and backfill w/ meters
De not over drill SP-2/V-5, too risky w/gus line, core w/ MV-23-  remove Mya ring, break off cosing.  Wells near utilities, air hnife to above utilities, remove ring and box  large vaults onsite, many may not overdrill, will discuss w/TU  140 Set up an MW-14  Finished grout, hegin box removal  1300 Vikki Hamlin offsite  1405 Break for lunch  1435 Return from lunch  1450 Done w/ MW-14 set up an MW-21  P721 MV-21 with first offsite up an MW-21	1033	EBMUD offsite
De not over drill SP-2/V-5, too risky w/gas line, core w/ MV-23-  nemove Mya ring, break off cosing.  Wells near utilities, air hnife to above utilities, remove ring and bex  large vaults onsite, many may not overdrill, will discuss w/ TU  Set up an MW-14  1236 Finished growt, begin box removal  1300 Vikki Hamlin offsite  1405 Break for lunch  1435 Return from lunch  1450 Done w/ MW-14, set up on MW-21  P727 MW-21	1040	
Nemove Mg ring, break off cosing.  Wells near utilities, air hnife to above utilities, remove ring and box  large vaults onsite, many may not overdrill, will discuss w/TU  Set up an MW-14  1236 Finished gravt, begin box removal  1300 Vikki Hamlin offsite  1405 Break for lunch  1435 Return from lunch  1450 Done w/ MW-14, set up on MW-21  1721		Do not over drill SP-2/V-5, too risky w/gas line, were w/ MV-23-
large vaults onsite, max may not overdrill, will discuss w/TU  1236  Finished growt, begin box removal  1300  Vikki Hamlin offsite  1405  Break for lunch  1435  Return from lunch  1450  Done w/ MW-14, set up on MW-21  P121  MU-21  MU		remove My ring, break off cosing.
large vaults onsite, many may not overdrill, will discuss w/TU  1236  Finished growt, hegin box removal  1300  Vikli Hamlin offsite  1405  Break for lunch  1435  Return from lunch  1450  Done w/ MW-14 set up on MW-21		Wells near utilities, air linife to above utilities, remove ring and box
1236 Finished growt, begin box removal  1300 Vikki Hamlin offsite  1405 Break for lunch  1435 Return from lunch  1450 Done w/ MW-14 set up on MW-21	lui 6	large vaults onsite, many may not overdrill, will discuss w/TU
1300 Vikki Hamlin offsite  1405 Break for lunch  1435 Return from lunch  1450 Done w/ MW-14, set up on MW-21	170	Set up on MW-14
1405 Break for lunch  1435 Return from lunch  1450 Done w/ MW-14, set up on MW-21	. •	
1435 Return from lunch  1450 Done w/ MW-14 set up on MW-21		
1450 Done w/ MW-14 set up on MW-21	_	
M21 MI-2)	.41	
1136 MW-21 completed clean on		W. O.
The state of the s		The fact of
1800 Offsite	1000	Uttsite
Signature:	Ignature:	Jul 47



## **DAILY REPORT**

Page \_\_\_\_ of \_\_\_\_

Project:	BP 608 Project No.: 06-88-606
Field Represe	entative(s): Taylor Lancelot Day: Tue. Date: W 7/10/12
Time Onsite:	From: <u>0700</u> To:; From: To:; From: To:
Signed	d HASP <u>+</u> Safety Glasses <u>+</u> Hard Hat <u>+</u> Steel Toe Boots <u>+</u> Safety Vest
	Emergency System Shut-off Switches Located Proper Gloves
* Proper	r Level of Barricading Other PPE (describe)
Weather: _O	vercast, warm
Equipment In	Use: Vac Truck, air knife rig, asphalf rig
Visitors:	
TIME:	WORK DESCRIPTION:
0700	Onsite, meet we Rew Towler of Cornerstone, of JR is doing safety
	meeting w/ Cornerstone of Collac, TE safety breifing w/ Coscoole
0800	TL & Coscade set up on MW-22
1090	Concrete in place and drying clean up MW-22 for asphalt crew
1030	Fill water tank onsite
1050	Set up on MW-15
1244	MU-15 complete, clean up for asphalt crew
1300	Break for lunch
1330	Beturn from lunch, Set up on MW-16
<u> 1335                                   </u>	PGEE ongite
	Gave ok to cut asphalt out 3x3' square dawn 3" and repave.
	for 2 wells in close proximity to gos line, will go no deeper
	than removing vaults per Villa Hamlin
1345	PULE OFFSIJE
1537	MW-16 complete w/cold patch
1542	Set up on MW-18
1700	Offsile, need to air unife MW-18 tomorrow
	1111
Signature:	/ L



#### DAILY REPORT Page \_ i \_ of \_ 2\_

oject:	BP 608 Project No.: 06-88-606
ield Repre	esentative(s): Taylor Lancelot, James Rompay: Toke Wed Date: 7/11/12
	re: From: <u>\( \frac{1}{2} \frac{7}{2} \) To:; From: To:; From: To:</u>
√ <u></u> ⊱ Sign	ned HASP $\underline{\hspace{0.2cm} \hspace{0.2cm} $
£ US7	Γ Emergency System Shut-off Switches Located Proper Gloves
_ + Prop	per Level of Barricading Other PPE (describe)
Weather:	Sunny, Warm
Equipment 1	In Use: Air knife /Vac truck
Visitors:	
TIME:	WORK DESCRIPTION:
0700	Onsite, safety meeting
0730	Statewide set up on MW-9
<u>0745</u>	Fill water tank on vac truck onsite
<u>0800</u>	Set up on MW-9
0919	About 2' bgs, seeing evidence of fill on side south side
	of boring Water main marked by EBMUD about I' quay
	will stop @ 2' Er safety reasons.
	No pea gravel or backfill, but very loose soil w/a gradual
	decrease of roadhase, north side of boring still road base
	EBMDD line marked @ \ 3' diameter.
0944	MW-9 completed, clean up for osphalt crew
1000	Begin setup on MW-10 and SP-2/V-5
1305	MW-10 and 5P-2/V-5 completed
1310	Break for lunch
1340	Return from lunch, fill thank water tank on Vactruck onsite
1335	Set up on MW-18
1600	Statewide offside: completed MV-18 W/cold patch for asphalt
Signature:	Crew tamorran



#### **DAILY REPORT**Page 2 of 2

Project:	BP 608 P	roject No.: _	06-88-606	
	sentative(s): TL, JR D			1/12
Time Onsite	e: From:; From:	To: _	; From:	To:
UST	ed HASP Safety Glasses Ha Emergency System Shut-off Switches Locate er Level of Barricading Other PPE (de	ed	_ Proper Gloves	
Weather:				
Equipment In	n Use:			
Visitors:				
TIME:	WORK DE	SCRIPTION	₹:	
1700	Set up on MW-19  MW-19 growthing complete, of  Street too crowded, will complete  Set up on MW-11  Crowting MW-11 completed, which consite to move trailer or track  Offsite	vill oin	unife tomorrow	
Signature:	141			Revision: 1/24/2012



Project:P	608 Project No.: <u>06-88-606</u>
Field Repres	entative(s): Taylor Lancelot, James Day: Thor. Date: 1/12/12
Time Onsite:	: From: <u>0730</u> To:; From: To:; From: To:
4 Signe	ed HASP $\succeq$ Safety Glasses $+$ Hard Hat $\prec$ Steel Toe Boots $+$ Safety Vest
→ UST	Emergency System Shut-off Switches Located
† Prope	er Level of Barricading Other PPE (describe)
Weather:	Junny, warm
	Use: Vae trucklair hnife rig
Visitors:	
TIME:	WORK DESCRIPTION:
0730	Onsite, Safety meeting
0800	Set up on MW-23
0916	MW-23 completed, ready for asphalt crew
<u>0920</u>	Set up on MW-19 to oir brise to 5'
	MW-23 concrete vault and ring removed; close proximity
	to 2" plastic gas line > 2' away, unknown depth, stopped
	due to safety concerns.
030_	Horozontal 4" pipe = 1" from concrete around well, steel, 30" deep
	took picture, sent to TV, spoke w/TV told us to stop and
	grout, confirmed decision w/ Vikki Hamlin Pipe perpendicular to street
1150	Mw-19 completed, ready for asphalt crew
1125	Set up on MW-11
1300	MW-11 completed
1505	Break for lunch
1335	Return from lunch
1348	Set up on MW-8, -aw cut square around lid.
1450	MW-8 completed
1500	Sct up on MW-26
Signature:	/



Project: 3P 608	Project	t No.: <u>06-88</u>	1-606	
Field Representative(s): TL, JR	Day: _	Thur.	Date: <u>7/12</u>	112
Time Onsite: From:; Fr				
Signed HASP Safety Glasses UST Emergency System Shut-off Switche				Safety Vest
Proper Level of Barricading Other	PPE (describe	e)		
Weather:				
Equipment In Use:				
Visitors:				
	RK DESCRI			
1520 MW-26 complete 1525 Set up on MW-24				
1600 MW-24 complete				
1622 Sot up on E-1A				
'o" well, can pull pump	) manuall	v, all comm	onents sti	il
installed, no electricity				
and grout other wells he	fore large	2 voults		
Set up on MW-5 for a	grout . 4"	well 14' deep	0	
1710 MV-5, completed grout,			5. 2" well 1	8,5 deep
1723 completed grout on MW	<u>-25</u>			
	3" well	18.5 deep		
1740 Grout complete on MW 1800 Cascade offsite, TL to so		1 ,	11 000	
1815 Offsite	ze now ur	1 15 W/ USPIN	all ach	j.
<u> </u>				
——————————————————————————————————————				
Signature: /L/ W				Revision: 1/24/2012



Project:	Project No.: <u>O6-88-606</u>
Field Represen	ntative(s): Taylor Lancelot, James Day: Friday Date: 7/13/12  From: 0.7(8) To: From: To: From: To:
Time Onsite:	From: 0700 To:; From: To:; From: To:
<u></u> <u> </u> <u> </u>	HASP
Weather: <u>Ou</u>	encast, cool
Equipment In	Use: Vac Truck lair knife rig
Visitors:	
TIME:	WORK DESCRIPTION:
0700	Onsite, safety meeting
07 35	Set up on MW-ta13
0745	Does not seem like monitor well, 4" but skel thread cap within
	frenching to tank show on "as-built" for shop, slots in cosing verticle
	almost up to surface and = 1/4" wide. Will call TV for direction
0802	Set up on MW-5, saw cut and remove box, surface complete
	W/concrete
0845	Spoke w/TV, well previously thought was MV-13 was is not munitor
	well, but associated w/UST. Connot find MW-13, may be below
	large, un moveable storage container
0847	MV-5 complete empty tank on Vac Truck
0920	Set up on MW-25
1000)	MW-25 complete
1013	Set up on MW-7
1035	MW-7 completed, waiting for Vihki Hamlin to continue 4/
	large vaults
1100)	Vikki Hamlin onsite set upon MW-12/E-1A
1230	Grouting well MW-B/E-14 complete, grout vault, VH offsite
Signature:	Revision; 1/24/2012



Project:	βρ 608 Project No.: <u>06-88-606</u>
	entative(s): TL, JR Day: Fri. Date: 7/13/12
	: From: To: ; From: To: To: To: To:
	ed HASP Safety Glasses Hard Hat Steel Toe Boots Safety Vest
	Emergency System Shut-off Switches Located Proper Gloves
Prope	er Level of Barricading Other PPE (describe)
Weather:	
Equipment Ir	1 Use:
Visitors:	
TIME:	WORK DESCRIPTION:
1300_	MW-12/E-1A complete, vault cemented = 3" hys.
	Set up on SP-1/V-4
1327	5P-1/U-4 & well destruction by grout completed, voult still meds
	to get filled, Set up on V-3? possible junction? no well,
	only or horozonal piping, all cut, 400x4" pipe, 4x1" pipe,
	1x2" pipe, 2 4" pipes and marked "1" and "3"
:275	2" pipe marked "4".
1335	Set up on V-2? All horozontal piping, no wells, some as hefore 1x2", 2x1", 2x4" marked "13" and "14"
1340	SP-1/V-4 return to to fill vault w/grout
1415	Concrete of 5P-1/U-4 complete
	Clean up site
1500	Offsite
	-/14/
Signature:	/W 4/ Revision: 1/24/2012



☐ Poway ☐ Anaheim ☐ Long Beach ☐ San Jose ☐ Nipomo ☑ Sacramento ☐ Fairfield ☐ Fresno ☐ Bakersfield

772660

#### TRAFFIC CONTROL WORK ORDER REPORT

CON	ITRAC	CTOR: BROADBIAT	CON	NTACT:				PHONE	•		DATE: 7-11-12
LOC	ATIO					*****	CON	TRACT#			JOB#
Work	( Descri	ption: / MAN									16-08-606
DATE		7-11-12				en e	ON THE PARTY OF TH				
		.ades						CITY	٤	CAN L	0128~20
		LOCATION/STREET 17601 /									
JOBS	ITE C	ONTACT JAMES RAMO	.5		TCSC W	ork Min	dow	Contrac	tor Work	Window	
FWY	ST	HWY/STREET LANE CLOSURES	Leng		Start	End	Total	Start	End	Total	Notes
	ń	1 Lane 1 Direction (T-10)	Qty	/	Time	Time	Hours	Time	Time	Hours	
		2 Lanes 1 Direction (T-10)					MANAGARAN	7:00	7.64.7		<u> 1571 Dec 152</u> 9 5 00 1852
H		3 Lanes 1 Direction (T-10)					· · · · · · · · · · · · · · · · · · ·				<u> </u>
		Additional 1 Lane Different Location (T-10)							***************************************		1 2 20 2 3 1/2 2 3
		Additional 2 Lanes Different Location (T-10)									6 BARE W/SIGHS
		Additional 3 Lanes Different Location (T-10)							**************************************		30 1896 0
		Connector Closure Only (T-14 Mod)							***************************************		
		Off-Ramp Closure during Lane/Street Closure (T-14 Mod)									
		On-Ramp Closure during Lane/Street Closure (T-14)					*******************				,,,,,
		Connector Closure during Lane Closure (T-14 Mod)									
		Complete Freeway/Street Closure (T-14A)									
		Flagging (T-13)									
		Movin Lane Closure (T-15, T-16)									
							· · · · · · · · · · · · · · · · · · ·				
				QTY	Asset #		t Time	End Tir		al Hours	Notes
		enuator Vehicle TL-3 & Driver TC4CK O	993	/		7.4	90	4.00		9	
Pilot	tional	Man							***************************************		
		Lanes					una e un ura e sonaren secona				
Port	able C	hangeable Message Sign		······································			***				
Porta	able L	ight Towers									
Arro	w Boa	ırds									
					, , ,						
EMPL	OYEE		DT		9 <sub>111</sub> 42			Foreman		944	1 Min
	114				198 Carrier			. 5.5		14	(A) (A)
		3 1		<sup>(</sup>	SORE			Contracto	or	<u> </u>	
<del></del>				1				R/E Inspe	ector		



#### **CASCADE DRILLING DAILY WORK REPORT**

PO Box 1184 – Woodinville, WA 98072 – 425-485-8908 # CASCADL91508 13600 SE Ambler Road – Clackamas, OR 97015 – 503-775-4118 #CCB-187984 555 S. Harbor Blvd. – La Habra, CA 90631 – 562-929-8176 #C57-938110 3632 Omec Circle – Rancho Cordova, CA 95742 – 916-638-1169 #C57-938110

CLIENT BR	OADB	ENTA	ASSOCI	, PROJ	ECT N	06-	88-606		DATE	7-9-2012	DAY A	tondo	24	- marc
JOB LOCATIO	N 170	01 He	esperia	1 B	Ive	1.	DIG ALER	Т#				51218		1
Well # Depth		•	1	D	ESC	ŘIPTIO	N OF WO	ORK				OURS		Charge
Bore # Drilled			Please explai	n reaso	ns for	Down Time	and Standby T	ime and	l Shop T	ime	Start	Stop	Hrs	Hrs
	AM Sh	op Time					9;				5:3	5:45	°52	
	Travel	o Site									5:45	8845	3	
			4-8	1 S								10830		
	11	alk	the s	ite				wan	4			11:70		
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RIG ENGINE	HUURS	START	1318.3			STOP	1321.5		<u>-</u>		MATERI	TOTAL		
		EQUII	PMENT				CAS	ING		ITEM	MATERI QTY	ITEM		QTY
DRILL RIG#		5-175	COMPRESSOR/J	ACKHAMM	FR	2	TYPESLOT	2 4		SAND		WELL COVER 8'		GII
SUPPORT TRUCK #		569	SNOW FENCE RE			Ves	20' SCREEN			READYMIX		WELL COVER 1		
SUPPORT TRUCK #			CONTINUOUS SA	MPLER			10' SCREEN			QUICKSET	a cross	MONUMENT CA		
TRAILER #		<u>5-24c</u>	CONTINUOUS SA	MPLER FOO	OTAGE		5' SCREEN			PORTLAND	16	BOLLARDS		
BOBCAT			# OF CORE CUTS				20' BLANK			ASPHALT	4	DRUMS		
AUTO HAMMER		***************************************	# OF BULLDOG C				10' BLANK			BENTONITE GROUT		HOLE COVER PL		. /
GROUT MIXER			# OF SERVICE RU	INS			5' BLANK			BENTONITE CHIPS		PLASTIC SHEETI		yeر
GROUT PUMP PERISTALTIC PUMP			# OF SAW CUTS PORTABLE RESTR	MOOM			5' PP SCREEN  10' PP SCREEN			BENTONITE POWDER BENTONITE PELLETS		TRAFFIC CONTR CORE BOXES	UL	
FORKLIFT/HOPPER			CONTABLE DEST	COIVI			SLIP CAP		<del>  </del>	BENTONITE GRANULAR		CURE BUXES PLYWOOD		
		L/	ABOR				THREADED CAPS			SAMPLER TUBES		WATER SAMPLE	S	
CREW WITH PER DIEM	м 1	CHAR	GEABLE EXTRA LABO	IR HRS			LOCKING CAPS			SHELBY TUBES		HYDROPUNCH SAMPLES		
NAME		SIGN	NATURE	SHOP	DRILL	TOTAL HRS	DRIVE SHOE			PROBE POINTS "		AUGER PLUGS		
C. Beau	۷					12	CENTRALIZERS			GW PROBE POINTS		ORILL OUT BITS		
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Operator Signature Tarlan fear



Client Signature\_

#### CASCADE DRILLING DAILY WORK REPORT

PO Box 1184 – Woodinville, WA 98072 – 425-485-8908 # CASCADL91508 13600 SE Ambler Road – Clackamas, OR 97015 – 503-775-4118 #CCB-187984 555 S. Harbor Blvd. – La Habra, CA 90631 – 562-929-8176 #C57-938110 3632 Omec Circle – Rancho Cordova, CA 95742 – 916-638-1169 #C57-938110

CLIENT	RA	T		PRO.I	FCT NC	106-	88-606		ПАТ	E 7-10-2012	DAY .	tuese	da v	
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RIG ENGINE	HOURS:	START	1321.5			STOP	1325.	5				TOTAL		
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DRILL RIG#		S-175	COMPRESSOR/J.			3	TYPESLOT	5	4	SAND		WELL COVER 8		
SUPPORT TRUCK # SUPPORT TRUCK #	***************************************	579	SNOW FENCE RE			le>	20' SCREEN			READYMIX		WELL COVER 1		
TRAILER #		5-246	CONTINUOUS SA		TAGE		10' SCREEN 5' SCREEN	-		QUICKSET	20	MONUMENT CA BOLLARDS	ASING	
BOBCAT		<u> </u>	# OF CORE CUTS		JIAGE		20' BLANK			ASPHALT	23	DRUMS		1
AUTO HAMMER			# OF BULLDOG C				10' BLANK			BENTONITE GROUT		HOLE COVER P	1 ATES	
GROUT MIXER			# OF SERVICE RU	INS			5' BLANK			BENTONITE CHIPS		PLASTIC SHEET	ING	Yes
GROUT PUMP			# OF SAW CUTS				5' PP SCREEN			BENTONITE POWDER		TRAFFIC CONTI	ROL	
PERISTALTIC PUMF	0		PORTABLE RESTR	DOM		***************************************	10' PP SCREEN			BENTONITE PELLETS		CORE BOXES		
FORKLIFT/HOPPER							SLIP CAP			BENTONITE GRANULAR		PLYWOOD		
	2	L/	ABOR		T		THREADED CAPS			SAMPLER TUBES		WATER SAMPL	.ES	
CREW WITH PER DI			GEABLE EXTRA LABO			Т	LOCKING CAPS			SHELBY TUBES		HYDROPUNCH SAMPLES		
NAME		SIGN	NATURE	SHOP	DRILL	TOTAL HRS	DRIVE SHOE	-		PROBE POINTS	si (	AUGER PLUGS		
(Bea					-	10	CENTRALIZERS	-		GW PROBE POINTS		DRILL OUT BITS		
J. Larse	>u	···········				10	LOCKS	+-		MACRO LINERS				
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REMARKS			****							***************************************				
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#### **CASCADE DRILLING DAILY WORK REPORT**

PO Box 1184 – Woodinville, WA 98072 – 425-485-8908 # CASCADL91508 13600 SE Ambler Road – Clackamas, OR 97015 – 503-775-4118 #CCB-187984 555 S. Harbor Blvd. – La Habra, CA 90631 – 562-929-8176 #C57-938110 3632 Omec Circle – Rancho Cordova, CA 95742 – 916-638-1169 #C57-938110

CLIENT		BA	ι		PROJ	ECT NO	06-	88-600	0	DA <sup>-</sup>	TE 7-11-201	2 DAY	Wedn	esd	au
JOB LO	CATIO	N 170	601 H	esperia	vi R	Slud		DIG ALEF	RT#				SIZIS		
Well #	Depth			7	Ď	ESCI	RIPTIC	N OF W	OR	K			HOURS	Total	
	Drilled			Please explai	n reaso	ns for D	own Time	and Standby	Time	and Shop	Time	Star		Hrs	Charge Hrs
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		Travel													
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AW-1		gre	<u>ur 3</u>	<u>x x w</u>	eu_	remo	ove.	the box		ur kn	1-62	8500			
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Total Ft.			1			HARG	EABL	E RIG HOL	JRS	3	***************************************				
RIG EN	IGINE	HOURS	: START	132525			STOP	1329.7				***********	TOTAL		
			COLUE	38.8E8.1T				0.46			Spinson B G	MATER			
DRILL RIG #	,		S-175	PMENT			11		SING		ITEM	QTY	ITEM		QTY
SUPPORT T			31173	SNOW FENCE RE			es es	TYPESLOT 20' SCREEN	5	4	SAND	-7	WELL COVER 8		
SUPPORT T			2569	CONTINUOUS SA				10' SCREEN			READYMIX QUICKSET	6	WELL COVER 1 MONUMENT CA		
TRAILER #			5-246	CONTINUOUS SA		DTAGE		5' SCREEN			PORTLAND	30	BOLLARDS	JOING	
BOBCAT				# OF CORE CUTS				20' BLANK			ASPHALT	2	DRUMS		***
AUTO HAMI	MER			# OF BULLDOG C	UTS			10' BLANK			BENTONITE GROUT		HOLE COVER P	_ATES	
GROUT MIX	ER			# OF SERVICE RU	INS			5' BLANK			BENTONITE CHIPS		PLASTIC SHEET		Ye's
GROUT PUN	/IP			# OF SAW CUTS			Province	5' PP SCREEN			BENTONITE POWDER		TRAFFIC CONTR		
PERISTALTI	C PUMP			PORTABLE RESTR	DOM			10' PP SCREEN			BENTONITE PELLETS		CORE BOXES		
FORKLIFT/H	IOPPER							SLIP CAP			BENTONITE GRANULAR		PLYWOOD		
		g	<u>LA</u>	BOR		1		THREADED CAPS			SAMPLER TUBES		WATER SAMPL	ES	
CREW WITH	PER DIEN	1 /	CHARG	SEABLE EXTRA LABO	R HRS			LOCKING CAPS			SHELBY TUBES		HYDROPUNCH SAMPLES		
17 1	NAME		SIGN	ATURE	SHOP	DRILL	TOTAL HRS	DRIVE SHOE			PROBE POINTS	"	AUGER PLUGS		
4.5	eas						10.5	CENTRALIZERS			GW PROBE POINTS		DRILL OUT BITS		
J. L.C	150	n		····			10.5	LOCKS			MACRO LINERS				
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					L			UTILITIES FO	UNI	D OK HIT					
REMAR	KS														
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Client Signature\_

#### **CASCADE DRILLING DAILY WORK REPORT**

PO Box 1184 – Woodinville, WA 98072 – 425-485-8908 # CASCADL91508 13600 SE Ambler Road – Clackamas, OR 97015 – 503-775-4118 #CCB-187984 555 S. Harbor Blvd. – La Habra, CA 90631 – 562-929-8176 #C57-938110 3632 Omec Circle – Rancho Cordova, CA 95742 – 916-638-1169 #C57-938110

CLIENT	Transport 16											
	LS A	· [	1	PROJECT	NO <i>06-8</i>	8-606		DATE 7-12-2012	DAY -	thurse	dox	
JOB LOCATIO	DN 170	01 He	specian	Blue	1.	DIG ALEF	Т#			S12(8)		
Well # Depth			Paren	DES	ĈRIPTIO	N OF W	1RK		· · · · · · · · · · · · · · · · · · ·	IOURS	1	
Bore # Drilled			Please explain r					hop Time	Star		Total Hrs	Charge Hrs
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		17.05		r	4 1	/ //				0 8:00	5	<u> </u>
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	asp	hole_	· · · · · · · · · · · · · · · · · · ·							9:30	1.5	
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	arou	+ 3 w	ells 4"	X 14ª	1 2"X	20', 3"	X 18#		4500	5230	1.5	
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T - ( - 1 F)	I W ON	p mic	TOTAL	CHVI	CEVBIE	RIG HOL	IDC					
Total Ft.  RIG ENGINE	HULIDE	: START	1329.7		STOP	r · · · · · · · · · · · · · · · · · · ·		1777 PART OF PART AND ADDRESS OF THE PART AND ADDRESS		TOTAL		
HIO FIAOUAL	HOONS	· J UIANI	1.527.		1 3105	1332.4			MATER	TOTAL	l	
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DRILL RIG#			IAIFIAI			ı CAS	IIVO	I II EIVI	ILLIY			
		S-175	COMPRESSOR/JACK	CHAMMER	7	TYPESLOT	2 4	SAND	QTY	ITEM WELL COVER 8		GII
SUPPORT TRUCK #		S-175	1		3 Yes					WELL COVER 8	n	GIT
SUPPORT TRUCK #		S-175 S-569	COMPRESSOR/JACK	AL	CONTRACTOR OF THE PARTY OF THE	TYPESLOT		SAND	2	WELL COVER 8	2"	GIY
			COMPRESSOR/JACK	AL LER	CONTRACTOR OF THE PARTY OF THE	TYPESLOT 20' SCREEN		SAND READYMIX	2 4 30	WELL COVER 8	2"	GIY
SUPPORT TRUCK #		5-569	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMP	AL LER	CONTRACTOR OF THE PARTY OF THE	TYPESLOT 20' SCREEN 10' SCREEN		SAND READYMIX QUICKSET	2	WELL COVER 8 WELL COVER 1 MONUMENT CA	2"	GIT
SUPPORT TRUCK # TRAILER # BOBCAT AUTO HAMMER		5-569	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS	AL LER LER FOOTAGE	CONTRACTOR OF THE PARTY OF THE	TYPESLOT 20' SCREEN 10' SCREEN 5' SCREEN		SAND READYMIX QUICKSET PORTLAND	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS	 SING .ATES	
SUPPORT TRUCK # TRAILER # BOBCAT AUTO HAMMER GROUT MIXER		5-569	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS # OF SERVICE RUNS	AL LER LER FOOTAGE	CONTRACTOR OF THE PARTY OF THE	TYPESLOT 20' SCREEN 10' SCREEN 5' SCREEN 20' BLANK 10' BLANK 5' BLANK		SAND READYMIX QUICKSET PORTLAND ASPHALT	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS DRUMS	 SING .ATES	yes
SUPPORT TRUCK # TRAILER # BOBCAT AUTO HAMMER GROUT MIXER GROUT PUMP		5-569	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS # OF SERVICE RUNS # OF SAW CUTS	AL LER LER FOOTAGE	CONTRACTOR OF THE PARTY OF THE	TYPE SLOT 20' SCREEN  10' SCREEN  5' SCREEN  20' BLANK  10' BLANK  5' BLANK  5' PP SCREEN		SAND READYMIX GUICKSET PORTLAND ASPHALT BENTONITE GROUT BENTONITE CHIPS BENTONITE POWDER	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS DRUMS HOLE COVER PL PLASTIC SHEETI TRAFFIC CONTE		
SUPPORT TRUCK # TRAILER # BOBCAT AUTO HAMMER GROUT MIXER GROUT PUMP PERISTALTIC PUMP		5-569	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS # OF SERVICE RUNS	AL LER LER FOOTAGE	CONTRACTOR OF THE PARTY OF THE	TYPE SLOT 20' SCREEN  10' SCREEN  5' SCREEN  20' BLANK  10' BLANK  5' BLANK  5' PP SCREEN  10' PP SCREEN		SAND READYMIX GUICKSET PORTLAND ASPHALT BENTONITE GROUT BENTONITE CHIPS BENTONITE POWDER BENTONITE PELLETS	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS DRUMS HOLE COVER PL PLASTIC SHEETI TRAFFIC CONTE		
SUPPORT TRUCK # TRAILER # BOBCAT		5-569 5-24C	COMPRESSOR/JACK SNOW FENCE RENTA CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS # OF SERVICE RUNS # OF SAW CUTS PORTABLE RESTROOF	AL LER LER FOOTAGE	CONTRACTOR OF THE PARTY OF THE	TYPE_SLOT_ 20' SCREEN  10' SCREEN  5' SCREEN  20' BLANK  10' BLANK  5' BLANK  5' PP SCREEN  10' PP SCREEN  SLIP CAP		SAND READYMIX QUICKSET PORTLAND ASPHALT BENTONITE GROUT BENTONITE CHIPS BENTONITE POWDER BENTONITE PELLETS BENTONITE GRANULAR	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS DRUMS HOLE COVER PL PLASTIC SHEETI TRAFFIC CONTE CORE BOXES PLYWOOD	2" SING ATES ING	
SUPPORT TRUCK # TRAILER # BOBCAT AUTO HAMMER GROUT MIXER GROUT PUMP PERISTALTIC PUMP FORKLIFT/HOPPER		5-569 5-246	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS # OF SERVICE RUNS # OF SAW CUTS PORTABLE RESTROOF	AL LER LER FOOTAGE  S M	CONTRACTOR OF THE PARTY OF THE	TYPESLOT 20' SCREEN 10' SCREEN 5' SCREEN 20' BLANK 10' BLANK 5' BLANK 5' BLANK 5' PP SCREEN 10' PP SCREEN SLIP CAP THREADED CAPS		SAND READYMIX QUICKSET PORTLAND ASPHALT BENTONITE GROUT BENTONITE CHIPS BENTONITE POWDER BENTONITE PELLETS BENTONITE GRANULAR SAMPLER TUBES	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS DRUMS HOLE COVER PL PLASTIC SHEETI TRAFFIC CONTE CORE BOXES PLYWOOD WATER SAMPLI	2" SING ATES ING	
SUPPORT TRUCK # TRAILER # BOBCAT AUTO HAMMER GROUT MIXER GROUT PUMP PERISTALTIC PUMP FORKLIFT/HOPPER	м /	5-569 5-246 LA	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS # OF SERVICE RUNS # OF SAW CUTS PORTABLE RESTROOF	AL LER LER FOOTAGE G	Yes	TYPE_SLOT_ 20' SCREEN  10' SCREEN  5' SCREEN  20' BLANK  10' BLANK  5' BLANK  5' PP SCREEN  10' PP SCREEN  SLIP CAP  THREADED CAPS  LOCKING CAPS		SAND READYMIX QUICKSET PORTLAND ASPHALT BENTONITE GROUT BENTONITE CHIPS BENTONITE POWDER BENTONITE PELLETS BENTONITE GRANULAR SAMPLER TUBES SHELBY TUBES	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS DRUMS HOLE COVER PL PLASTIC SHEETI TRAFFIC CONTE CORE BOXES PLYWOOD WATER SAMPLI HYDROPUNCH SAMPLES	2" SING ATES ING	
SUPPORT TRUCK # TRAILER # BOBCAT AUTO HAMMER GROUT MIXER GROUT PUMP PERISTALTIC PUMP FORKLIFT/HOPPER REW WITH PER DIE NAME	м /	5-569 5-246 LA	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS # OF SERVICE RUNS # OF SAW CUTS PORTABLE RESTROOF	AL LER LER FOOTAGE  S M	Yes	TYPESLOT 20' SCREEN 10' SCREEN 5' SCREEN 20' BLANK 10' BLANK 5' BLANK 5' BLANK 5' PP SCREEN 10' PP SCREEN SLIP CAP THREADED CAPS		SAND READYMIX GUICKSET PORTLAND ASPHALT BENTONITE GROUT BENTONITE CHIPS BENTONITE POWDER BENTONITE PELLETS BENTONITE GRANULAR SAMPLER TUBES SHELBY TUBES PROBE POINTS "	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS DRUMS HOLE COVER PL PLASTIC SHEETI TRAFFIC CONTE CORE BOXES PLYWOOD WATER SAMPLE HYDROPUNCH SAMPLES AUGER PLUGS	2" SING ATES ING	
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SUPPORT TRUCK # TRAILER # BOBCAT AUTO HAMMER GROUT MIXER GROUT PUMP PERISTALTIC PUMP FORKLIFT/HOPPER REW WITH PER DIE NAME	M /	5-569 5-246 LA	COMPRESSOR/JACK SNOW FENCE RENT/ CONTINUOUS SAMPI CONTINUOUS SAMPI # OF CORE CUTS # OF BULLDOG CUTS # OF SERVICE RUNS # OF SAW CUTS PORTABLE RESTROOF	AL LER LER FOOTAGE G	Yes  i  total hrs  10.5	TYPESLOT 20' SCREEN 10' SCREEN 5' SCREEN 20' BLANK 10' BLANK 5' BLANK 5' PP SCREEN 10' PP SCREEN SLIP CAP THREADED CAPS LOCKING CAPS DRIVE SHOE CENTRALIZERS LOCKS	2 4	SAND READYMIX QUICKSET PORTLAND ASPHALT BENTONITE GROUT BENTONITE CHIPS BENTONITE PELLETS BENTONITE GRANULAR SAMPLER TUBES SHELBY TUBES PROBE POINTS GW PROBE POINTS MACRO LINERS SAMPLER SHOE	2 4 30	WELL COVER 8 WELL COVER 1 MONUMENT CA BOLLARDS DRUMS HOLE COVER PL PLASTIC SHEETI TRAFFIC CONTE CORE BOXES PLYWOOD WATER SAMPLE HYDROPUNCH SAMPLES AUGER PLUGS	2" SING ATES ING	
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Operator Signature dulbe kea



Client Signature\_

#### **CASCADE DRILLING DAILY WORK REPORT**

PO Box 1184 – Woodinville, WA 98072 – 425-485-8908 # CASCADL91508 13600 SE Ambler Road – Clackamas, OR 97015 – 503-775-4118 #CCB-187984 555 S. Harbor Blvd. – La Habra, CA 90631 – 562-929-8176 #C57-938110 3632 Omec Circle – Rancho Cordova, CA 95742 – 916-638-1169 #C57-938110

CLIENT	BA	T			PROJ	ECT I	NO 06-9	88-606		DA	TE 7-13-2012	DAY	Frida		TONIO
JOB LOCATION	ON 176	01 1	405	perian	Blu	d.		DIG ALER	RT#			1	512187	/	
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Total Ft.	1101100	, T , ST.	DT T		AL U	TAF		RIG HOL		*******					
RIG ENGINE	: HUUKS	: STA	KI I	1332.4			STOP	1334	4				TOTAL		
		E	QUIP	MENT				CAS	ING		ITEM	MATER QTY	ITEM		QTY
DRILL RIG#		5-175		COMPRESSOR/JA	CKHAMM	ER		TYPESLOT	2 4	1	SAND	GII	WELL COVER 8		GII
SUPPORT TRUCK #				SNOW FENCE REI			Yes	20' SCREEN			READYMIX	3	WELL COVER 1		****
SUPPORT TRUCK #		5-560	Ĩ_	CONTINUOUS SAM	MPLER			10' SCREEN			QUICKSET	3	MONUMENT CA		
TRAILER #		5-24	6	CONTINUOUS SAN	APLER FOO	TAGE		5' SCREEN			PORTLAND	50	BOLLARDS		
BOBCAT				# OF CORE CUTS				20' BLANK			ASPHALT		DRUMS		10
AUTO HAMMER				# OF BULLDOG CL				10' BLANK		-	BENTONITE GROUT		HOLE COVER PI		
GROUT MIXER GROUT PUMP				# OF SERVICE RUI	NS		~	5' BLANK			BENTONITE CHIPS	-	PLASTIC SHEET		1co
PERISTALTIC PUMP				# OF SAW CUTS PORTABLE RESTRO	7014			5' PP SCREEN  10' PP SCREEN			BENTONITE POWDER		TRAFFIC CONTE	OL	
FORKLIFT/HOPPER				FORTABLE RESTRE	JOIVI			SLIP CAP			BENTONITE PELLETS BENTONITE GRANULAR	<del>  </del>	CORE BOXES PLYWOOD		
	***************************************		LAE	30R				THREADED CAPS			SAMPLER TUBES		WATER SAMPLI	20	
REW WITH PER DIE	M		CHARGE	ABLE EXTRA LABOR	R HRS			LOCKING CAPS			SHELBY TUBES		HYDROPUNCH SAMPLES		
NAME			SIGNA:	TURE	SHOP	DRIL	L TOTAL HRS	DRIVE SHOE			PROBE POINTS		AUGER PLUGS		
C. Bea							11,5	CENTRALIZERS			GW PROBE POINTS		DRILL OUT BITS		
J. Larsi	ou						$\mathcal{A}$	LOCKS			MACRO LINERS		- Management		
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Operator Signature This Rear



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Project: BP	668 Project No.: 06 - 88 - 600
Field Representat	and the second of the second o
Time Onsite: Fro	om: 1000 To: 1200; From: To: To: To:
	ASP 💪 Safety Glasses 🖰 Hard Hat 👂 Steel Toe Boots 🔑 Safety Vest
→ UST Em	ergency System Shut-off Switches Located Proper Gloves
	evel of Barricading Other PPE (describe)
Weather: Ov	ercest 270°F
Eduibiuent in o	se:
Visitors: W	icky H.
TIME:	WORK DESCRIPTION:
1000	Arrived unsite; started paper work & safety meanings
	Completed safely meeting of proceeded to not ansite
1105	Setup exclusion rane & procuredad to break well
	nu d grad
1(35_	Viciny It wrived cusite; brief sifety meaning
[145]	Vicky H left site &
1150	bopying concrete to well box
[20]	Signed out & left site
	A advised shop to allow concrete to day
	before replacing container arty
· · · · · · · · · · · · · · · · · · ·	
	0
Signature: _	124/201 1/24/201
	/

11/20/2012

11/20/2012

10:00



**Company Name:** 

Address Line 1:

Address Line 2:

**Cross Street** 

City:

State:

Site Name:

#### **GREGG DRILLING & TESTING**

Broadbent & Associates, Inc.

17601 Hesperian Blvd

Hacienda Blvd

San Lorenzo

CA

ARCO #608 - MW-13 Decommissioning

**Project Field Bill** 

**GDT Job Number:** 

Reference Number:

Driller/Staff Safety:

Job Start Date:

Job End Date:

Start Time:

Equipments:

D2120536

S24

Sean

GD2120494

950 Howe Road, Martinez, CA 94553 Ph: (925) 313-5800 Fax: (925) 313-0302 www.greggdrilling.com

Thomas Coordinate: Thomas Page: Field Rep: James Ramos			Field Staff 2: Antonio Field Staff 3: Nights Out:	
ITEM	UNITS QUA	NTITY	ITEMS	UNITS QUANTIT
RIG NO./TYPE P. L	HOUR 2		SEISMIC CPT (Interval Test)	TEST
MOB-DEMOB-TRAVEL		3.0	UVOST RENTAL	DAY
PER DIEM	MAN/NGT	3.0	RESISTIVITY RENTAL	DAY
PREMIUM TIME	MAN/HR		BACKFILL TEST LOCATIONS	FOOT
ADDITIONAL TECHNICIAN	HOUR		BENTONITE CHIPS	BAG
STANDBY/MOVE TIME	HOUR		BENTONITE PELLETS	PAIL
STEAM CLEANING AT YARD	DAY		BENTONITE DRILL MUD	BAG
GROUT PUMP/STEAM CLEANER	DAY		BENTONITE GROUT	BAG
MUD SYSTEM	DAY		FILTER SAND	BAG
FORKLIFT/BOBCAT/LOADER	DAY		ASPHALT PATCH	BAG
WATER TRUCK TENDER	DAY		READY-MIX CONCRETE	BAG /
SERVICE TRUCK	DAY		PORTLAND CEMENT/QUICK SET	BAG 3
SERVICE RUNS	HOUR		WOOD PLUGS	EACH
CONST./HAND AUGER CREW (2 men)	HOUR		DISPOSABLE BAILERS	EACH
CONCRETE CORING DIA.	EACH		PVC CASING 3/4" 2" 4" OTHER	FOOT
P.P.E. UPGRADE TIME	HOUR		PVC SCREEN 3/4" 2" 4" OTHER	FOOT
BORING #   DEPTH   INTERVAL/TYPE O	F SAMPLING SIZE C	OF WELL	THREADED FITTINGS 3/4" 2" 4" OTHER	EACH
0 1 11 0 11 0	0		SLIP FITTINGS 3/4" 2" 4" OTHER	EACH
P.6. 1-13'x3" well Res	move Box		LOCKING CAPS 2" 4" OTHER	EACH
			MONITORING WELL BOX (WATERTIGHT)	EACH
concrete cap			ANODIZED STAND PIPE	EACH
<b>'</b>		]	GROUNDWATER SAMPLE CONSUMABLES	EACH
			1/4", 1/2" TUBING	FOOT
			DISPOSABLE TIPS	EACH
			SAMPLE RINGS & CAPS	EACH
			55-GALLON DRUM	EACH
			CORE BOX	EACH
114		00 A.	Section 13751 through 13754 of the California Water Cobe filed for every groundwater well installation or abandoes not elect to submit this report, Gregg Drilling & Tethe appropriate paperwork for a \$20 fee per well.  Client to complete GDT to complete	donment. If the client esting, Inc. will complete
Lunch Start:	Lunch Finish:	-	The named parties are hereby notified that if charges for	or above labor, services
SUBCONTRACTOR - ADDITIONAL EQUIPMI			equipment or materials furnished or to be furnished are improved property referred to above may be subject to Section 1181, et. seq. to the California Code of Civil Pr construction funds are subject to "Stop notice" action (g	mechanics lien (per ocedure) and
EQUIPMENT DAMAGE:			California Code of Civil Procedure). TERMS: NET 30 days. A 3% Reduction of total price if 1.5% per month finance charge on accounts 30 days p undersigned accepts the terms as stated above for serious control of the c	f paid within 10 days. ast due. The
WE CAN ASSUME NO RESPONSIBILITY FOR DAMAGE OF UNDERGROUND UTILITIES. In the event of adverse and/or hazardous dilling conditions, client will be informed if rate changes and/or responsibility		Project Name:P.O./Task #		
for replacement of lost of damaged equipment Also applicable to cancellations within 24 hrs.			Signature of Field Representative	
Clearance No.			Printed Name	Date

Printed Name\_\_

#### Attachment D

**DWR Well Completion Reports** 

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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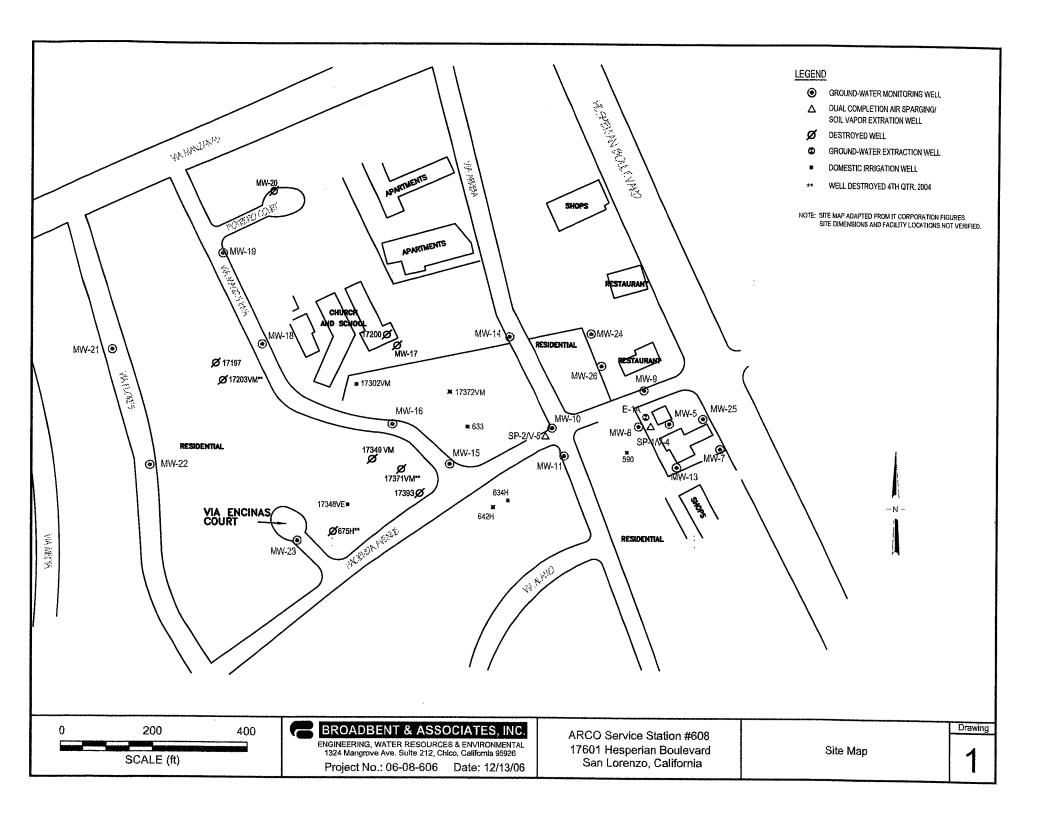
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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