



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: October 10, 2012 REFERENCE NO.: 060119
PROJECT NAME: 2350 (2368) Harrison Street, Oakland

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

9:31 am, Nov 14, 2012

Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other
 Prints

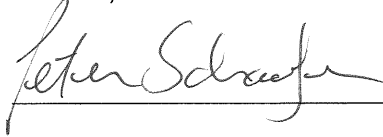
Sent via: Mail Same Day Courier
 Overnight Courier Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Well Destruction Report

As Requested For Review and Comment
 For Your Use _____

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Richard Burge, 490 Grand Avenue, Suite 100, Oakland, CA 94610

Completed by: Peter Schaefer Signed: 

Filing: **Correspondence File**



Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Re: Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California
SAP Code 173318
Incident No. 97743969
ACEH No. RO0000505

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is located below the "Sincerely," text.

Denis L. Brown
Senior Program Manager



WELL DESTRUCTION REPORT

FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET
OAKLAND, CALIFORNIA

SAP CODE 173318
INCIDENT NO. 97743969
AGENCY NO. RO0000505

OCTOBER 10, 2012
REF. NO. 060119 (25)

This report is printed on recycled paper.

Prepared by:
Conestoga-Rovers
& Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent well destructions at the referenced site.

The well destructions are required for case closure per Alameda County Environmental Health's (ACEH's) August 23, 2012 letter. CRA followed the scope of work and procedures presented in our September 4, 2012 *Well Destruction Work Plan*, which was approved in ACEH's September 6, 2012 letter.

2.0 WELL DESTRUCTION

2.1 FIELD DATES

September 19 to 21, 2012.

2.2 PERSONNEL PRESENT

CRA field staff member Alan Anderson directed the well destructions under the supervision of California Professional Geologist Peter Schaefer.

2.3 DESTRUCTION METHOD

Six monitoring wells (S-1 through S-6) were destroyed by pressure grouting, four soil vapor probes (SVP-1 through SVP-3, and SVP-2A) were destroyed by over-drilling using an air-/water-knife drill rig, and two near sub-slab soil vapor probes (SVP-4 and SVP-5) were destroyed by over-drilling with a hammer drill. Copies of the Alameda County Public Works Agency well destruction permits are included in Appendix A.

2.4 WASTE DISPOSAL

Water-knife sludge generated during the well destructions was stored on site in 55-gallon drums, tested, and profiled for disposal. Construction debris generated by the well destruction activities was transported by Vapor Tech Services of Berkeley, California to Commercial Waste and Recycling of Oakland, California for recycling. The disposal documentation is pending and will be provided upon request.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

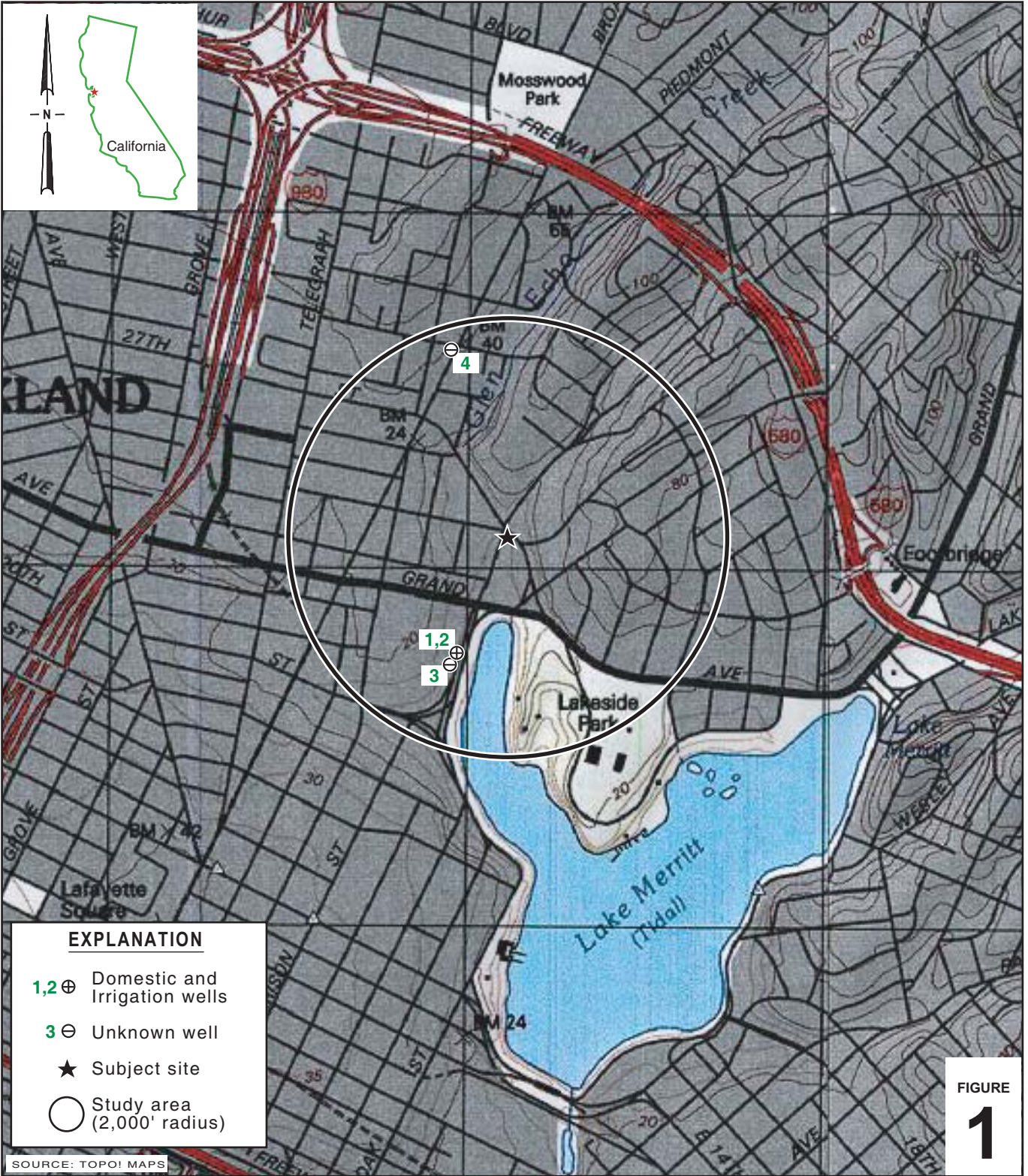
Peter Schaefer
Peter Schaefer, CEG, CHG



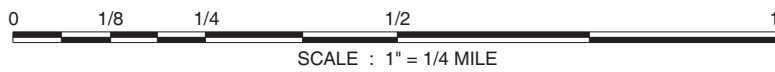
Eric A. Syrstad

Eric A. Syrstad, PG

FIGURES



I:\Shell\6-charts\0601--\060119-Oakland 2350 Harrison St\060119-FIGURES\060119 VICINITY.A1



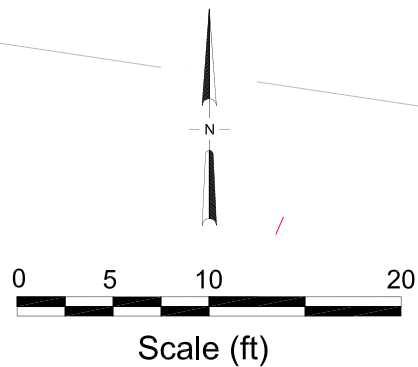
Former Shell Service Station

2350 (2368) Harrison Street
Oakland, California



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map



EXPLANATION	
S-1	Destroyed monitoring well location
SVP-4	Destroyed near sub-slab soil vapor probe
SVP-1	Destroyed soil vapor probe location
B-1	Soil boring location
⊗	Soil boring location, abandoned after 2' due to utility conflict
---	Storm drain (STM)
---	Sanitary sewer line (SAN)
---	Water line (W)
---	Electrical line (E)
---	Gas line (G)
---	Telecommunications line (T)
---	Unknown utility line (?), indicated by private utility locator

I:\Shell6-chars\0601--\060119-Oakland 2350 Harrison St\060119-FIGURES\060119 SITE PLAN (F2, 10'-SCALE).DWG

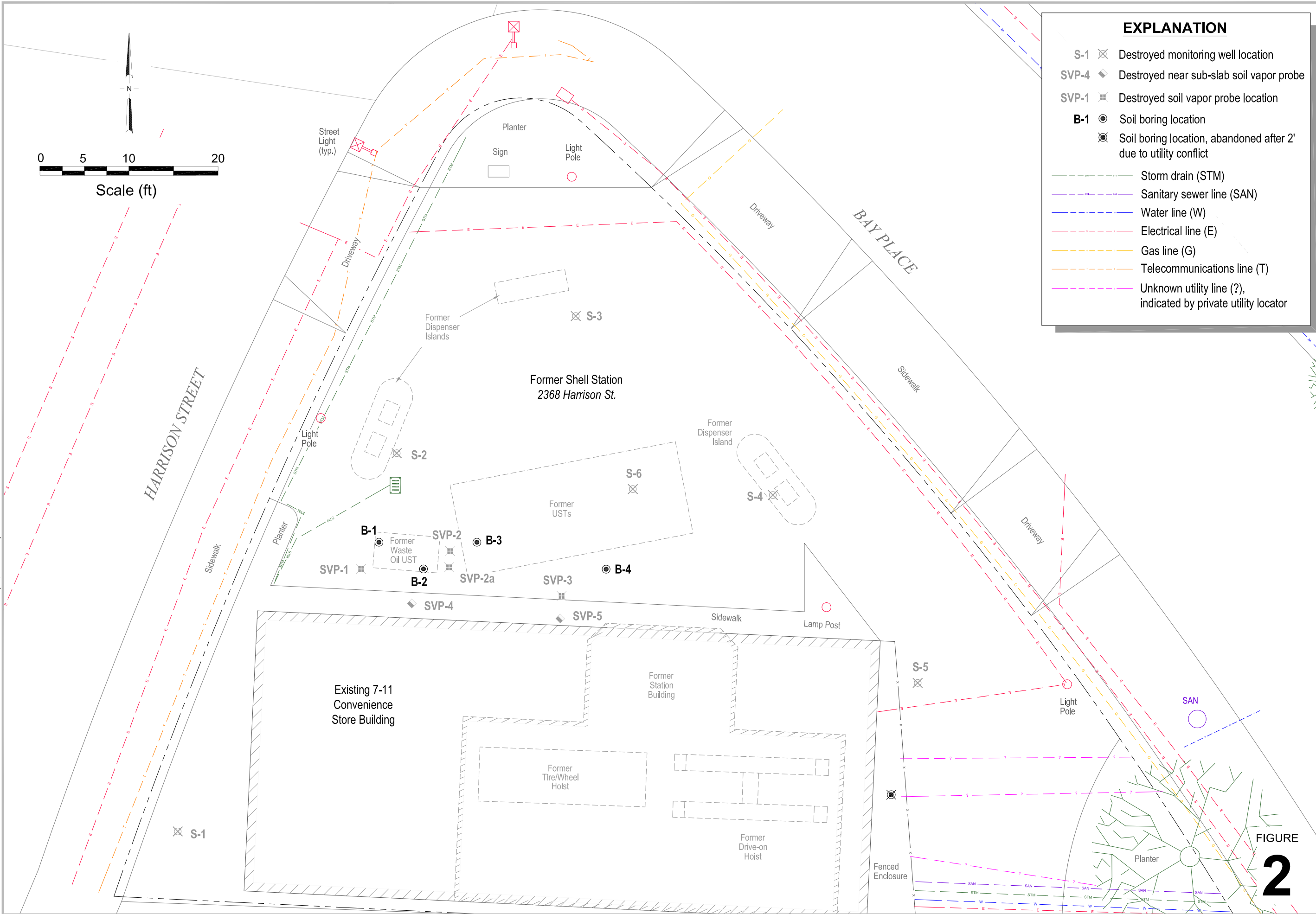


FIGURE 2

Site Plan



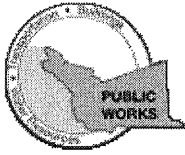
Former Shell Service Station

2350 (2368) Harrison Street
Oakland, California

APPENDIX A

PERMITS

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 09/12/2012 By jamesy

Permit Numbers: W2012-0644 to W2012-0650
Permits Valid from 09/24/2012 to 09/28/2012

Application Id: 1346879768019
Site Location: 2350 (2368) Harrison Street
Project Start Date: 09/24/2012
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

City of Project Site:Oakland
Completion Date:09/28/2012

Applicant:	Conestoga-Rovers & Associates - Chris Benedict 5900 Hollis Street, Suite A, Emeryville, CA 94608	Phone: 510-420-3319
Property Owner:	Richard Burge 490 Grand Ave., Suite 100, Oakland, CA 94610	Phone: --
Client:	Denis Brown Shell Oil Products US 20945 South Wilmington Ave., Carson, CA 90810	Phone: --
Contact:	Peter Schaefer	Phone: -- Cell: --

	Total Due:	\$2647.00
Receipt Number: WR2012-0292	Total Amount Paid:	\$2647.00
Payer Name : Conestoga-Rovers & Associates	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 6 Wells

Driller: Vapor Tech Services - Lic #: 916085 - Method: press

Work Total: \$2382.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2012-0644	09/12/2012	12/23/2012	S-1	10.00 in.	4.00 in.	4.00 ft	16.00 ft	No Records	No Records	No Records
W2012-0645	09/12/2012	12/23/2012	S-2	10.00 in.	4.00 in.	4.00 ft	16.00 ft	No Records	No Records	No Records
W2012-0646	09/12/2012	12/23/2012	S-3	10.00 in.	4.00 in.	4.00 ft	21.00 ft	No Records	No Records	No Records
W2012-0647	09/12/2012	12/23/2012	S-4	10.00 in.	4.00 in.	4.00 ft	21.00 ft	No Records	No Records	No Records
W2012-0648	09/12/2012	12/23/2012	S-5	10.00 in.	4.00 in.	4.00 ft	16.00 ft	No Records	No Records	No Records
W2012-0649	09/12/2012	12/23/2012	S-6	10.00 in.	4.00 in.	4.00 ft	16.00 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. 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

Alameda County Public Works Agency - Water Resources Well Permit

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 well 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.
9. 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.

Well Destruction-Vapor monitoring well - 6 Wells

Driller: Vapor Tech Services - Lic #: 916085 - Method: press

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 #
W2012-0650	09/12/2012	12/23/2012	SVP-1	3.50 in.	0.25 in.	3.50 ft	5.00 ft	No Records	No Records	No Records
W2012-0650	09/12/2012	12/23/2012	SVP-2	3.50 in.	0.25 in.	3.50 ft	5.00 ft	No Records	No Records	No Records
W2012-0650	09/12/2012	12/23/2012	SVP-2A	3.50 in.	0.25 in.	1.00 ft	2.00 ft	No Records	W2010-0093	e0109968

Alameda County Public Works Agency - Water Resources Well Permit

W2012-0650	09/12/2012	12/23/2012	SVP-3	3.50 in.	0.25 in.	3.50 ft	5.00 ft	No Records	No Records	No Records
W2012-0650	09/12/2012	12/23/2012	SVP-4	1.00 in.	0.25 in.	0.50 ft	1.00 ft	No Records	No Records	No Records
W2012-0650	09/12/2012	12/23/2012	SVP-5	1.00 in.	0.25 in.	0.50 ft	1.00 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 above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well 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, including permit number and site map.
3. 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, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. 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.
5. 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.
6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.
7. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
8. 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.
9. Remove the Christy box or similar structure.

Destroy well 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.

Alameda County Public Works Agency - Water Resources Well Permit

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.

11. Vapor monitoring wells constructed with tubing shall be decommissioned by complete removal of tubing, grout seal, and fill material of sand or bentonite. Fill material may be removed by hand auger if material can be removed completely.

Vapor monitoring wells constructed with pvc pipe less than 2" shall be overdrilled to total depth.

Vapor monitoring wells constructed with 2" pvc pipe or larger may be grouted by tremie pipe (any depth) or pressure grouted (less than 30', 25 psi for 5 min).
