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 20, 2009

REFERENCE NO.: 241507

PROJECT NAME: 2800 Telegraph Ave., Oakland

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

RECEIVED
9:52 am, Oct 23, 2009
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

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

QUANTITY	DESCRIPTION
1	Well Destruction Work Plan

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

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

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810
Harmon Management Corporation, 199 First Street, #212, Los Altos, CA 94022-2767

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

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

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94205-6577

Subject: Former Shell Service Station
2800 Telegraph Ave.
Oakland, California
SAP Code 129450
Incident No. 97093398
ACEH Case No. RO0000009

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.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Project Manager

WELL DESTRUCTION WORK PLAN

FORMER SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

SAP CODE	129450
INCIDENT NO.	97093398
AGENCY NO.	RO0000009

Prepared by:
Conestoga-Rovers & Associates

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

Office: (510) 420-0700
Fax: (510) 420-9170

web: http:\\www.CRAworld.com

OCTOBER 20, 2009
REF. NO. 241507 (2)
This report is printed on recycled paper.

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF APPENDICES

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this work plan on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). The proposed well destructions are required for final case closure per Alameda County Environmental Health's (ACEH's) March 5, 2009 letter.

The subject site is a former Shell service station located on the northeast corner of the intersection of 28th Street and Telegraph Avenue in Oakland, California (Figure 1). The site is currently occupied by a Kentucky Fried Chicken Restaurant. Shell demolished this former service station and removed all their fuel system and service station facilities between 1988 and 1992. The former station layout consisted of a single first-generation fuel underground storage tank (UST) that was located near the northeast corner of the property, three second-generation fuel USTs, a waste oil tank, four product dispensers, and a station building (Figure 2). The site is surrounded by a mix of commercial and residential developments.

A complete site history was provided in CRA's October 28, 2008 *Risk Evaluation and Closure Request* and is not repeated herein.

2.0 PROPOSED SCOPE OF WORK

2.1 PERMITS

CRA will obtain appropriate drilling permits from the Alameda County Public Works Agency and the City of Oakland.

2.2 HEALTH AND SAFETY PLAN (HASP)

CRA will prepare a HASP to protect site workers. The plan will be kept on site during field activities and will be reviewed and signed by each site worker.

2.3 UTILITY CLEARANCE

CRA will mark proposed drilling locations, and the locations will be cleared through Underground Service Alert and a private utility locator service prior to drilling.

2.4 MONITORING WELL DESTRUCTION

CRA proposes to properly destroy three monitoring wells (S-3R, S-6, and S-8). The wells will be destroyed by backfilling with neat cement under pressure (pressure grouting). The well vaults will be removed, and the surface pavement will be patched following the City of Oakland's requirements. CRA includes the well logs for wells S-3R and S-8 in Appendix A. The boring log for well S-6 is not available. Well S-6 is 3 inches in diameter, 22.1 feet deep and was installed October 31, 1988 or November 1, 1988. The proposed scope of work will be performed under the supervision of a professional geologist or engineer.

2.5 REPORT PREPARATION

Following completion of the well destructions, CRA will submit a brief report documenting the activities.

3.0 SCHEDULE

CRA will implement the well destructions upon receipt of appropriate permits. CRA has tentatively scheduled the work for November 18, 2009.

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

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

10/05/01

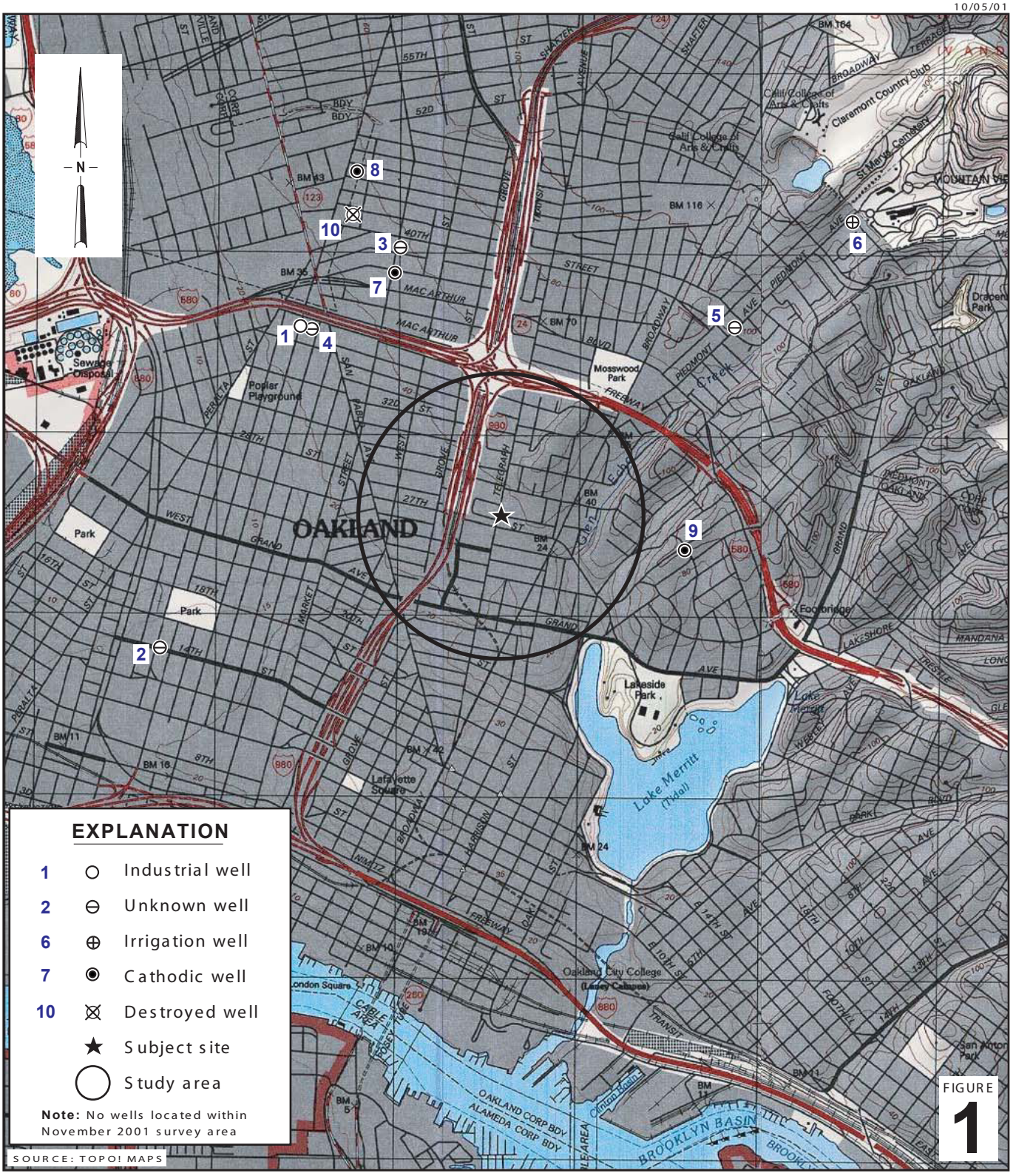


FIGURE
1

Former Shell Service Station / Current KFC Restaurant

2800 Telegraph Avenue
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

(1/2 Mile Radius)

10/05/09

EXPLANATION

- S-3R ⊠ Monitoring well proposed for destruction
- S-1 ⊠ Destroyed monitoring well location
- S-A ◉ Soil boring location
- Electrical line (E)
- Telecommunication line (T)
- Unknown utility line
- Gas line (G)
- Sanitary sewer line (SAN)
- Water line (W)
- Storm drain line (STM)
- Storm drain catch basin
- Flow direction

MERRIMAC STREET

Commercial Properties

28th STREET

Commercial Properties

S-5 ⊠

S-4 ⊠

TELEGRAPH AVENUE

S-8 ⊠

Commercial Properties

S-6 ⊠

S-3 ⊠

HB-3 ◉

S-3R ⊠

SV-1 ⊠

HB-2 ◉

HB-1 ◉

SR-1 ⊠

S-E ◉

S-D ◉

Former USTs

Former Dispenser Islands

KFC Restaurant Building

S-C ◉

S-1 ⊠

SV-2 ⊠

Former Shell Station
2800 Telegraph

S-B ◉

Former UST

Former Station Building

S-2 ⊠

S-A ◉

Former W/O UST

28th STREET

S-7 ⊠

S-9 ⊠

S-11 ⊠

S-10 ⊠

N

0 15 30 60

Scale (ft)

FIGURE

2

Site Plan

Former Shell Service Station

2800 Telegraph Avenue

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

t:\Shell\6-chars\2415--\241507-Oakland 2800 Telegraph\241507-FIGURES\241507 SITE PLAN.DWG

APPENDIX A

BORING LOGS

Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME	Equilon Enterprises LLC dba Shell Oil Products US	**BORING/WELL NAME**	S-3R
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	10-Mar-05
LOCATION	2800 Telegraph Avenue, Oakland, California	**DRILLING COMPLETED**	10-Mar-06
PROJECT NUMBER	248-1507-006	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	33.33 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	32.65 ft above msl
BORING DIAMETER	10"	**SCREENED INTERVALS**	5 to 14 fbg
LOGGED BY	B. DeBoer	**DEPTH TO WATER (First Encountered)**	9.0 fbg (10-Mar-06) ▽
REVIEWED BY	D. Baertchie	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knife to 5 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GW GM		**Asphalt** **GRAVEL with Sand** (GW-GM); 10YR 2/2; moist; 10% silt, 20% coarse sand, 70% coarse angular gravel; high estimated permiability; lare concrete pieces present.	0.3	Portland Type I/II
							SILT with Gravel (ML); 10YR 2/1; moist; 10% clay, 75% silt, 15% coarse gravel; low estimated permiability; very stiff.	3.0	Bentonite Seal
2.5	5 9 14	S-3R- 5.5		5			**SILT** (ML); 10YR 3/6; moist; 15% clay, 75% silt, 10% fine sand; low estimated permiability; stiff.		
18	2 6 8 8 8	S-3R- 8.5			ML				
812	14 7 8 12 10	S-3R- 10		10			**SILT** (ML); GLEY 4/5G; wet; 20% clay, 80% silt; moderate estimated permiability; green mottling and hydrocarbon odor present; very stiff. ▽		Monterey Sand #2/12 4"-diam., 0.020" Slotted Schedule 40 PVC
	12 12 6 7								
16	7	S-3R- 13.5					**Sandy SILT** (ML); 10YR 3/2; wet; 10% clay, 50% silt, 30% fine sand, 10% fine gravel; moderate estimated permiability; stiff.	14.0	Bottom of Boring @ 14 fbg

WELL LOG (PID): O:\OAKLAN~2\GINT\1507.GPJ DEFAULT.GDT 5/8/06

Field location of boring:

(See Plate 1)

Project No.: 7610	Date: 07/24/89	Boring No: S-8	
Client: Shell Oil Company			
Location: 2800 Telegraph Avenue			
City: Oakland, California		Sheet 1 of 2	
Logged by: J. Vargas	Driller: Bayland		
Casing installation data:			

Drilling method: Hollow-Stem Auger

Hole diameter: 8-Inches

Top of Box Elevation: 25.97 Datum: Mean Sea-Level

Water Level	10.5'			
Time				
Date	7/24/89			

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
				1				PAVEMENT SECTION - Asphalt/Concrete/Base Rock
				2				SILTY CLAY (CL) - very dark grayish brown (2.5Y 3/2), stiff, damp; 70% clay; 20% silt; trace - 10% very fine to fine sand; low plasticity, roots, trace coarse angular sand; no chemical odor.
				3				
				4				
	150	S&H		5				CLAYEY SAND (SC) - olive (5Y 5/4), loose to medium dense, damp; 60-70% very fine to fine sand; 20-30% clay; 10% silt; trace subrounded coarse sand; no chemical odor.
0	150	push						
	150		S-8-5	6				
				7				
				8				
				9				CLAYEY SAND (SC) - olive (5Y 5/4), loose, damp; 70% fine subrounded sand; 10-20% clay; trace fine gravel; slight chemical odor.
	100	S&H		10				
0	100	push	S-8-10	11		▼		
				12				
				13				
				14				
	2	S&H		15				no chemical odor at 14.0 feet.
0	6							
	12		S-8-15	16		▽		CLAYEY SAND (SC) - olive (5Y 4/3), medium dense, saturated; 70% medium to fine sand; 20% clay; 10% angular gravel; no chemical odor.
				17				
				18				
				19				

Remarks:

GeoStrategies Inc.

Log of Boring

BORING NO. S-8

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7610	CWP CEG 1262	9/89		

Field location of boring: (See Plate 1)	Project No.: 7610	Date: 07/24/89	Boring No: S-8
	Client: Shell Oil Company		
	Location: 2800 Telegraph Avenue		Sheet 2 of 2
	City: Oakland, California		
	Logged by: J. Vargas	Driller: Bayland	
	Casing installation data:		
Drilling method: Hollow-Stem Auger			
Hole diameter: 8-Inches	Top of Box Elevation: 25.97		Datum: Mean Sea-Level

Water Level	10.5'	
Time		
Date	7/24/89	

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description
	5	S&H		20				SANDY CLAY (CL) - light olive brown (2.5Y 5/4), stiff, damp; 70% clay; 30% fine to medium sand; low plasticity, brown/gray mottling black organics, interbeds of thin gravel; no chemical odor.
0	6							
	7							
	5	SPT		21				
	6							
	4			22				Bottom of boring at 19.5 feet. Bottom of sample at 22.0 feet. 07/24/89
				23				
				24				
				25				
				26				
				27				
				28				
				29				
				30				
				31				
				32				
				33				
				34				
				35				
				36				
				37				

Remarks:

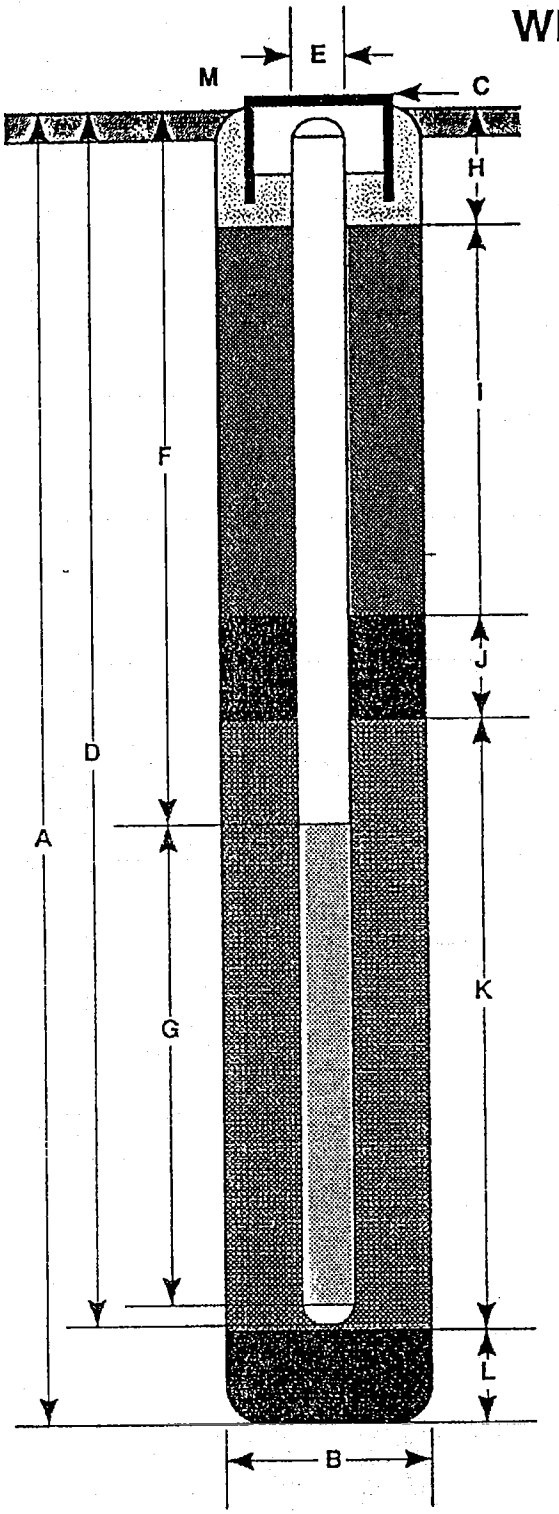
GeoStrategies Inc.

Log of Boring

BORING NO. S-8

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7610	CEG 1262	9/89		

WELL CONSTRUCTION DETAIL



A Total Depth of Boring 22 ft.

B Diameter of Boring 8 in.
Drilling Method Hollow-Stem Auger

C Top of Box Elevation 25.97 ft.
[X] Referenced to Mean Sea Level
[ ] Referenced to Project Datum

D Casing Length 19.5 ft.
Material Schedule 40 PVC

E Casing Diameter 3 in.

F Depth to Top Perforations 9.5 ft.

G Perforated Length 10 ft.
Perforated Interval from 19.5 to 9.5 ft.
Perforation Type Machine Slot
Perforation Size 0.02 in.

H Surface Seal from 0.5 to 0 ft.
Seal Material Concrete

I Backfill from 5.5 to 0.5 ft.
Backfill Material Concrete

J Seal from 7.5 to 5.5 ft.
Seal Material Bentonite Pellets

K Gravel Pack from 19.5 to 7.5 ft.
Pack Material 2/12 Lonestar Sand

L Bottom Seal 2.5 ft.
Seal Material Natural Clay

M Christy Box with locking well cap and lock

GSI GeoStrategies Inc.

Well Construction Detail

WELL NO. S-8

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7610	CMP CEG 1262	9/89		