



Stantec

Stantec Consulting Corporation
3017 Kilgore Road Suite 100
Rancho Cordova CA 95670
Tel: (916) 861-0400
Fax: (916) 861-0430

March 25, 2011

Mr. Jerry Wickham
Alameda County Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RECEIVED

11:33 am, Mar 29, 2011

Alameda County
Environmental Health

RE: **Enclosed Quarterly Groundwater Monitoring Report,
First Quarter 2011**
7-Eleven Store #32266
1339 North Vasco Road
Livermore, CA 94551
Stantec Project #:211502037.220.0506

Dear Mr. Wickham:

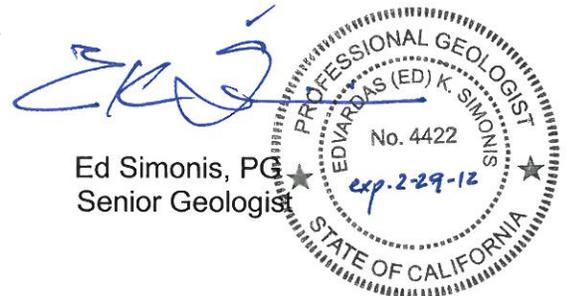
Stantec Consulting Corporation has been designated as Limited Agent of 7-Eleven, Inc. (7-Eleven) for the purposes of executing and delivering instruments and documents on behalf of 7-Eleven (see attached Limited Authorization form).

We declare, under penalty of perjury, that the information and/or recommendations contained in the attached assessment report are true and correct to best of our knowledge.

Should you have any questions regarding this site, please contact the undersigned at (916) 861-0400.

Sincerely,
Stantec Consulting Corporation

Damon Brown
Geologic Associate
Project Manager



LIMITED AUTHORIZATION

KNOW ALL MEN BY THESE PRESENTS:

That 7-ELEVEN, INC. ("7-Eleven"), a Texas corporation, acting by and through Gary C. Lockhart, Vice President, does hereby nominate, constitute and appoint STANTEC CONSULTING CORPORATION, a Delaware corporation formerly known as SECOR International Incorporated, as Limited Agent ("Agent") of 7-Eleven, for purposes of executing and delivering instruments and documents as more particularly described below, and does hereby grant, delegate and invest said Agent with power and authority to execute and deliver for, in the name of, and on behalf of 7-Eleven, and in connection with that certain Agreement by and between 7-Eleven and Agent, dated as of February 1, 2003 (as amended, the "Agreement"), the instruments and documents listed in Attachment I hereto.

Agent may exercise the power and authority herein granted, delegated and invested, in any particular and appropriate transaction or matter, as an agent of 7-Eleven. Any instruments and documents executed and delivered by Agent under this Limited Authorization shall be acts of 7-Eleven and may be relied upon by third parties dealing with 7-Eleven, such acts being hereby ratified and confirmed by virtue hereof. Agent shall deliver all instruments and documents executed and delivered by Agent under this Limited Authorization to 7-Eleven promptly following such execution and delivery.

Any and all acts of Agent hereunder shall comply with all applicable federal, state and local laws, regulations, rules and ordinances and with all applicable orders of any courts of competent jurisdiction.

This Limited Authorization shall expire upon the expiration or earlier termination of the Agreement or may be terminated at any time for any reason by 7-Eleven.

APPROVED AND EXECUTED this 22nd day of MAY, 2008, to be effective as of June 1, 2008.

7-ELEVEN, INC.

ATTEST:



Assistant Secretary

By: 
Title: Vice President

ATTACHMENT I

Such permits, reports, applications and other documentation issued by any federal, state or local governmental authority and such other standard form documentation provided by 7-Eleven or third parties to be completed in connection with Agent's performance of environmental consulting services pursuant to the Agreement, including, without limitation, the following:

- a. Waste Manifests;
- b. Waste Characterization Forms;
- c. Bills of Lading;
- d. Waste Disposal Agreements;
- e. Registration and Notification Forms for underground storage tanks;
- f. Incident Reports;
- g. Discharge Notification Forms;
- h. Tank Closure Reports;
- i. Permit Applications, Notices and other documents relating to the investigation, monitoring or remediation work performed under the Agreement;
- j. Reports to state environmental agencies regarding investigation, monitoring or remediation work performed under the Agreement; and
- k. Applications to any state underground storage tank insurance or reimbursement fund;

Provided, however, that in each case, the foregoing authorization shall not extend to any permits, reports, applications or other documentation that contain: (i) any language, the effect of which is to require 7-Eleven to indemnify, defend, and/or hold harmless any third party for any act or omission of any kind; or (ii) any statement of any kind, including, without limitation, any representation or warranty, which Agent does not personally know to be true and correct, including, without limitation, any representation concerning the legal existence or financial condition of 7-Eleven.



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Quarterly Groundwater Monitoring Report First Quarter 2011

**7-Eleven Store #32266
1339 North Vasco Road
Livermore, California**

Stantec Project No.: 211502037.220.0506

Submitted to:

Mr. Jerry Wickham
Alameda County Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Prepared on behalf of:

7-Eleven, Inc.
Mr. Ken Hilliard
P.O. Box 711
Dallas, TX 75221-0711

March 25, 2011



Stantec

Stantec Consulting Corporation
3017 Kilgore Road Suite 100
Rancho Cordova CA 95670
Tel: (916) 861-0400
Fax: (916) 861-0430

DATE: March 25, 2011

7-ELEVEN, INC. SEMI-ANNUAL REPORT

Store Number:	<u>7-Eleven Store #32266</u>
Site Address:	<u>1339 North Vasco Road, Livermore, CA 94551</u>
7-Eleven Contact:	<u>Mr. Ken Hilliard</u>
Consulting Company:	<u>Stantec Consulting Corporation – Mr. Damon Brown</u>
Stantec Project No.:	<u>211502037.220.0506</u>
Primary Agency:	<u>Alameda County Environmental Health Services (ACEHS)</u>

WORK PERFORMED THIS PERIOD [First Quarter 2011]

1. Submitted an *Additional Site Assessment Report*, dated March 25, 2011 to the ACEHS.
2. Conducted initial quarterly groundwater monitoring and sampling on March 16, 2011 and generated the quarterly report.

WORK PROPOSED FOR NEXT PERIOD [Second Quarter 2011]

1. Perform quarterly groundwater monitoring and sampling during second quarter 2011 and prepare the quarterly report.

DISCUSSION

The site is an active 7-Eleven convenience store and retail gasoline fueling facility with one 15,000-gallon and one 10,000-gallon gasoline underground storage tanks (UST) (Figures 1 and 2). Current groundwater monitoring and sampling data are summarized in Table 1, and presented on Figures 2 and 3. Historical groundwater monitoring and sampling results are summarized in Table 2. The well completion details are summarized in Table 3. A groundwater gradient and flow direction diagram is presented as Figure 4 and summarized in Table 4.

Current Site Information

Current Phase of Project:	<u>Groundwater Monitoring</u>
Frequency of Monitoring and Sampling:	<u>Quarterly, Three wells- MW-1, MW-2, and MW-3</u>
Are Liquid Phase Hydrocarbons Present On-site:	<u>No</u>
Water Supply Wells within a 2,000-foot radius and their Respective Direction:	<u>Three water supply wells (2,000 feet north, south, and southwest of site)</u>
Current Remediation Techniques:	<u>None</u>
Permits for Discharge:	<u>None</u>
Historic Range in Depth to Water, Q1-11 to Q1-11 (Measured Below Top of Casing)	<u>MW-1, 8.07 feet</u>

<u>Current Quarter Monitoring Data</u>	(See Figure 2 and Table 1)
Wells Monitored and Sampled:	Three wells- MW-1 through MW-3
Dissolved Oxygen Concentrations Measured In:	Three wells- MW-1 through MW-3
Depth to Groundwater (DTW) (Measured Below Top of Casing)	8.07 to 9.11 feet
Average Change in Groundwater Elevation Since Last Event:	Not Available
Groundwater Flow Direction and Gradient:	West-Southwest @ 0.008 foot per foot (Figure 2)
<u>Current Quarter Analytical Data</u>	(See Figure 3 and Table 1)
Maximum TPHg Concentrations	Not Detected, <50 µg/L
Maximum Benzene Concentrations	Not Detected, <0.50 µg/L
Maximum MtBE Concentrations	MW-3, 5,600 µg/L
Maximum TBA Concentrations	MW-3, 170 µg/L

BACKGROUND

In January 2005, two single-walled steel, fiberglass-jacketed USTs (one 10,000-gallon and one 15,000-gallon) were replaced with new double-walled fiberglass USTs. A total of 26 soil samples were collected during the UST replacement activities as follows:

- Five soil samples from the UST excavation,
- Six soil samples from the beneath the product dispensers,
- Five soil samples from the product line trenches,
- Eleven samples (44 samples combined at laboratory for eleven 4-part composite samples) from the stockpiled UST backfill material.

Total petroleum hydrocarbons as gasoline (TPHg) were not detected above laboratory reporting limits in any of the soil samples collected during the UST replacement activities. The maximum concentrations of tertiary butyl alcohol (TBA) and methyl tertiary butyl ether (MtBE) detected were 2.4 milligrams per kilogram (mg/kg) and 2.6 mg/kg, respectively, in UST excavation sample T1-2-12. Total lead was detected in each of the samples at concentrations ranging from 4.98 mg/kg to 28.4 mg/kg.

In addition, a total of three water samples were collected during the 2005 UST replacement activities as follows:

- One grab sample (W1) from water collected/pooled within the excavated UST basin,
- Two samples (BT-1 & BT-2) collected from 20,000-gallon Baker Tanks storing pumped UST excavation water.

MtBE was detected at 180 micrograms per liter (ug/L) and benzene was reported at 25 ug/L in UST excavation water sample W1 (Table 2). TPHg was detected at 3,400 ug/L. No TPHg was detected in either Baker Tank sample (BT-1 or BT-2). Total xylenes were reported in sample BT-1 at 0.70 ug/L. MtBE was detected in both samples at concentrations of 340 ug/L (BT-1) to 400 ug/L (BT-2). Based on the results of the water samples collected, an UST Unauthorized Release report was completed and submitted to the Livermore-Pleasanton Fire Department (LPFD) and the California Regional Water Quality Control Board (CRWQCB).

On December 4, 2008, Stantec's field scientist collected one soil sample in native soil from beneath four of the six dispensers (D1-5.0, D2-5.0, D3-5.0 and D4-5.0) during fuel system upgrade activities at the site. In addition, Stantec collected four soil samples from stockpiled excavated backfill material. The four stockpile samples were combined at the laboratory for one four-part composite sample SP1(ABCD). TPHg, benzene, toluene, ethyl-benzene and total xylenes (BTEX) were not detected above laboratory reporting limits in the dispenser soil samples collected, with the exception of dispenser sample D2-5. Soil sample D2-5 contained 0.21 mg/kg benzene, 0.59 mg/kg toluene, 0.26 mg/kg ethyl-benzene, 1.4 mg/kg xylenes, and 12 mg/kg TPHg. MtBE and TBA were detected exclusively in soil sample D1-5.5, at concentrations of 0.024 mg/kg and 0.0076 mg/kg, respectively. Di-isopropyl ether (DIPE), ethyl tertiary butyl ether (EtBE), and tertiary amyl methyl ether (TAME) were not detected above laboratory reporting limits in any dispenser soil samples collected. BTEX, TPHg, MtBE, TBA, DIPE, ETBE, and TAME were not detected at concentrations above laboratory reporting limits in the stockpiled soil sample collected during this investigation. Total lead was detected at concentration of 4.4 mg/kg.

In a letter dated November 20, 2009, the ACEHS requested the submittal of a work plan to investigate potential soil and groundwater contamination at the site based on ACEHS review of the historical site data. Stantec submitted a *Work Plan for Additional Soil and Groundwater Assessment* to the ACEHS on February 1, 2010. The work plan was subsequently approved by the ACEHS in a letter dated March 22, 2010.

On April 20, 2010, Stantec supervised WDC Exploration and Wells (WDC) of Richmond, California, during the advancement of three direct-push soil borings (GP-1 through GP-3) at the site. Eight soil samples were collected from soil borings GP-1 through GP-3 for laboratory analysis. MtBE was reported in soil boring GP-3 at 10 and 15 feet below ground surface (bgs) at concentrations of 0.023 mg/kg and 1.1 mg/kg, respectively. TBA was exclusively detected in soil boring GP-3 at 15 feet bgs at a concentration of 0.0076 mg/kg. TPHg, BTEX, DIPE, EtBE, and TAME were not detected at concentrations above the laboratory reporting limits in soil samples collected from soil borings GP-1 through GP-3. In addition, grab-groundwater samples were collected from each boring. Grab-groundwater samples GP-2W and GP-3W reported MtBE concentrations of 2.9 µg/L and 380 µg/L, respectively. TAME was exclusively detected in grab-groundwater sample GP-3W at a concentration of 0.71 µg/L. TPHg, BTEX, DIPE, EtBE and TBA were not detected at concentrations above the laboratory reporting limits in grab-groundwater samples GP-1 through GP-3.

On May 17, 2010, Stantec submitted the results of the assessment activities in a report titled *Additional Soil and Groundwater Assessment* to the ACEHS.

In a letter dated July 14, 2010, the ACEHS requested the submittal of a work plan to further assess the extent of soil and groundwater contamination, the hydraulic gradient, and to identify potential receptors within a radius of 2,000 feet of the subject site.

On September 29, 2010, Stantec submitted a *Work Plan for Additional Site Assessment and Results of Detailed Well Survey* to the ACEHS. The work plan was subsequently approved by the ACEHS in a letter dated October 25, 2010.

Between February 23 and 24, 2001, Stantec supervised the installation of three groundwater monitoring wells (MW-1, MW-2 and MW-3). On March 25, 2011, Stantec submitted an *Additional Site Assessment Report* to the ACEHS. Soil samples collected from MW-1 and MW-2 did not contain petroleum hydrocarbon concentrations above laboratory reporting limits. MtBE and TBA

were reported at concentrations ranging from 0.0082 mg/kg to 0.33 mg/kg in soil samples collected from MW-3.

MONITORING AND SAMPLING PROCEDURES

The depth to water was measured to within 0.01 foot bgs in monitoring wells MW-1, MW-2, and MW-3 from the top of casing (TOC) using a water level indicator. Dissolved oxygen concentrations were also measured in wells MW-1, MW-2, and MW-3 using a YSI Model Pro20 dissolved oxygen meter equipped with a down hole sensor.

Well purging and sampling equipment was thoroughly cleaned prior to purging and sampling the well. The sampling procedure for the wells included measuring the water level and purging of approximately three casing volumes of water (or to dryness). The equipment and purging methods used for the current sampling event are noted on the field data sheets in Attachment A. During purging, temperature, pH, and electrical conductivity were monitored. After purging, the water level was allowed to recover to 80% of the original level prior to collection of the water sample. Groundwater samples were collected using a disposable Teflon[®] bailer, placed into appropriate Environmental Protection Agency (EPA) approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a California state-certified laboratory. Copies of the field notes are in Attachment A.

GROUNDWATER SAMPLE ANALYSES AND RESULTS

The groundwater samples collected from MW-1, MW-2, and MW-3 were analyzed for the presence of BTEX, TPHg, MtBE, TBA, DIPE, EtBE, and TAME by EPA Method 8260B. The certified laboratory analytical report and chain-of-custody documentation are presented as Attachment B.

Groundwater analytical results are presented on Figure 3, and are summarized in Tables 1 and 2.

PURGE AND RINSATE WATER DISPOSAL

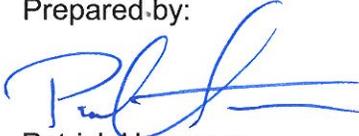
Water generated during well sampling and equipment cleaning was pumped into a Stantec truck-mounted water tank. The water was transferred into properly labeled 55-gallon drums and stored on-site. The drummed non-hazardous petroleum hydrocarbon contaminated water is transported quarterly by Belshire Environmental to DeMenno Kerdoon in Compton, California, for disposal.

The results of this quarterly groundwater monitoring report will be uploaded to the ACEHS FTP site. In addition, the report will be uploaded to the State of California GeoTracker database in EDF format, per California code AB2886.

If you have any questions or comments regarding the contents of this report, please contact the undersigned at (916) 861-0400.

Sincerely,
Stantec Consulting Corporation

Prepared by:



Patrick Herrmann
Project Scientist

Reviewed by:



Damon Brown
Geologic Associate
Project Manager

Reviewed by:



Ed Simonis, P.G.
Senior Geologist



ATTACHMENTS

Figures

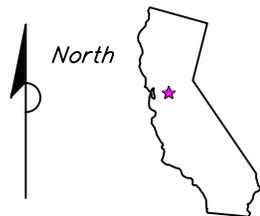
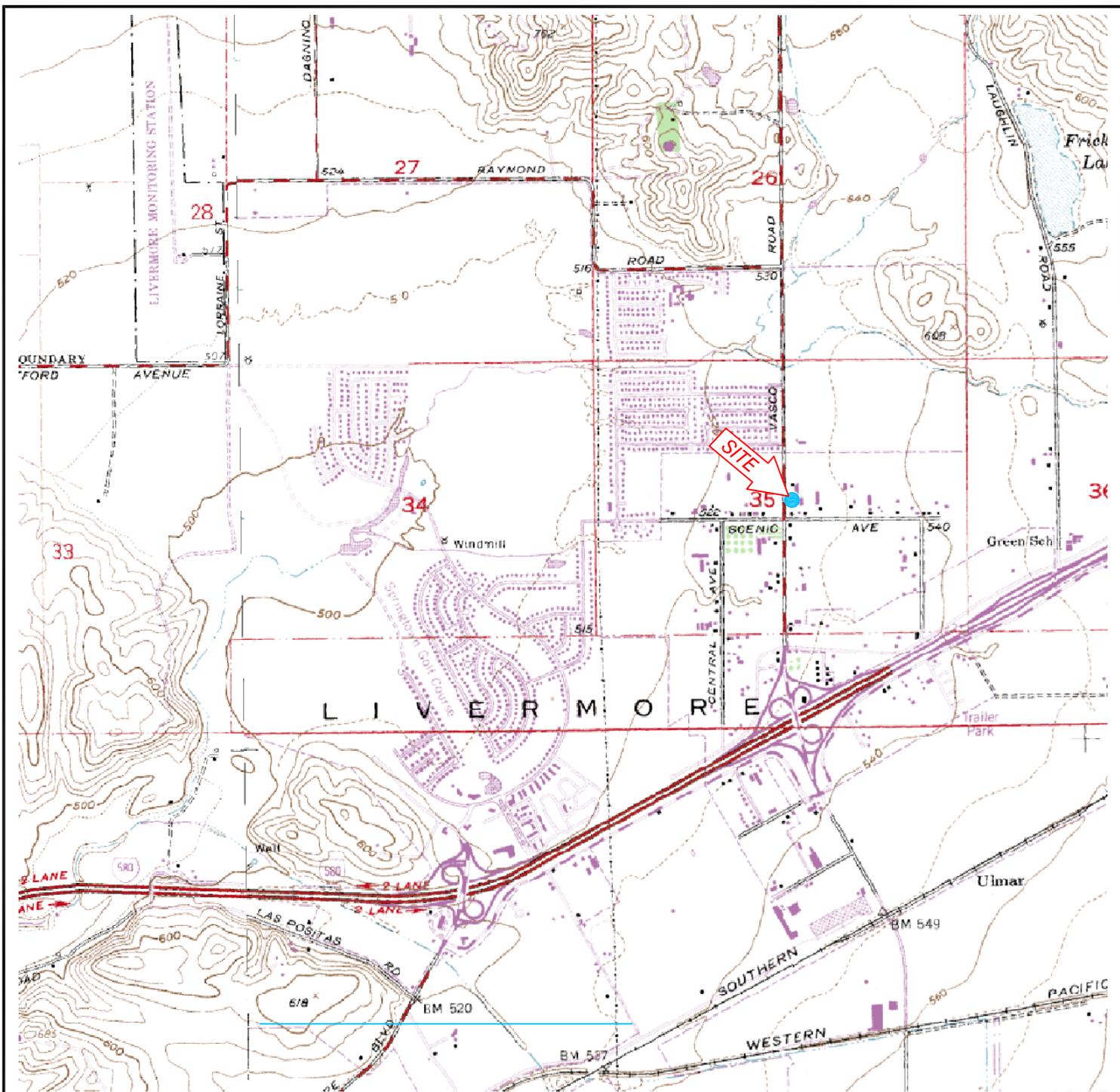
Tables

Attachment A – Field Notes

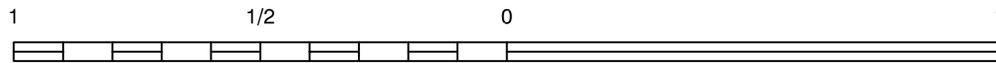
Attachment B – Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

c: John Wainwright, Stantec, 308 East 4500 South, Suite 100, Murray, Utah 84107-3957

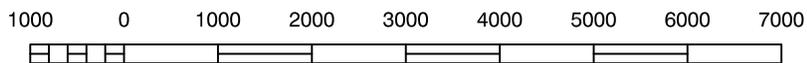
Figures



CALIFORNIA



SCALE (MILES)



SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, LIVERMORE, CALIFORNIA



FOR:



STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

SITE LOCATION MAP

FIGURE:

1

JOB NUMBER:
211502037

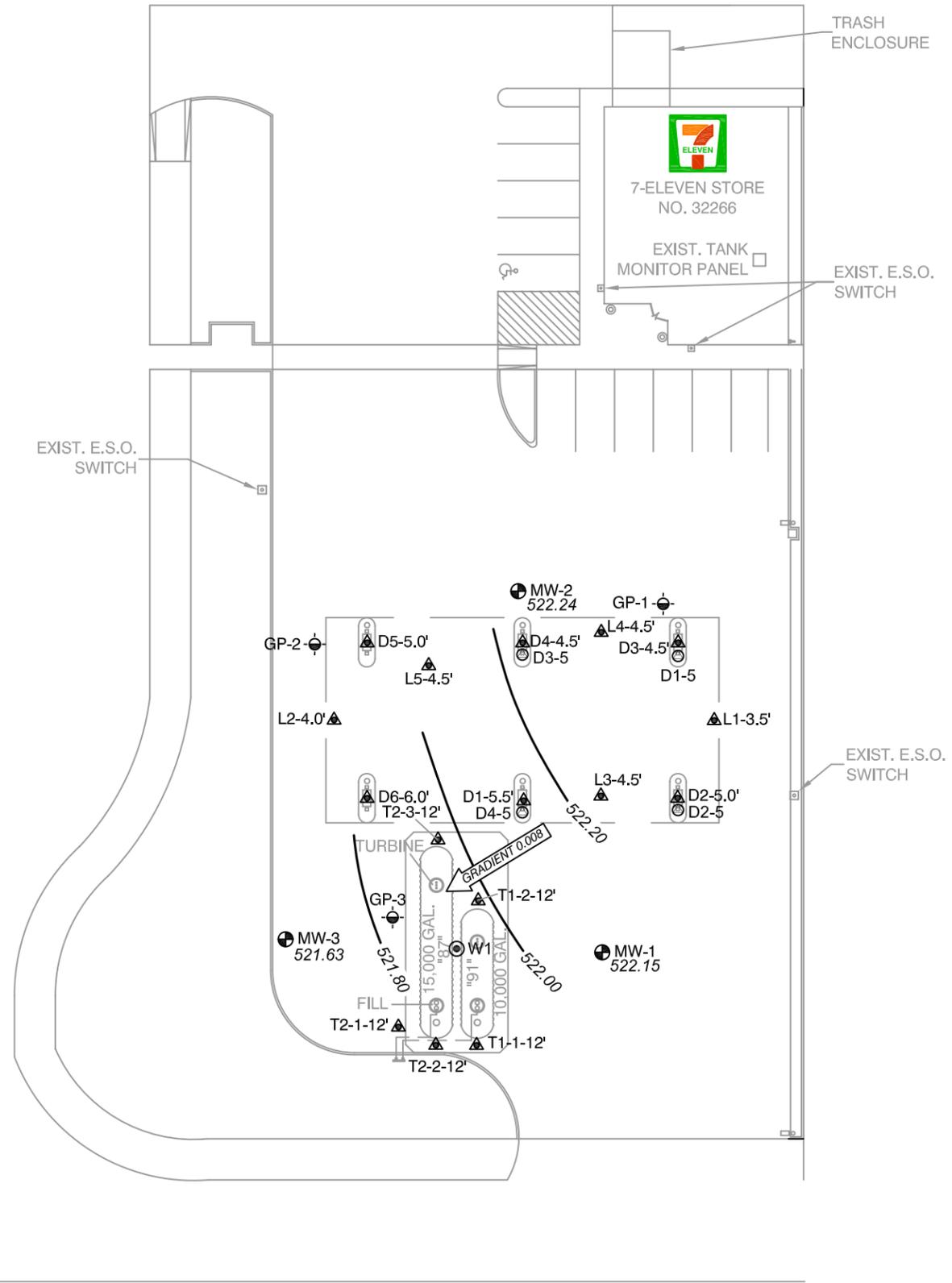
DRAWN BY:
STA

CHECKED BY:
PH

APPROVED BY:
DB

DATE:
03/08/11

VASCO ROAD



SCENIC AVE.

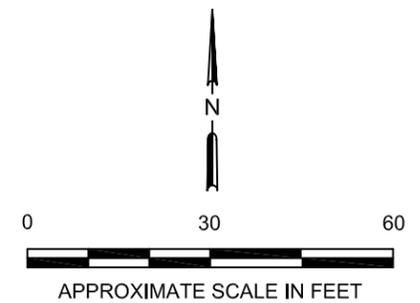
LEGEND:

- W1 UST EXCAVATION WATER SAMPLE LOCATION
- GP-1 GEOPROBE SAMPLE LOCATION
- L5-4.5' 2008 SOIL SAMPLE LOCATION
- D1-5 2005 SOIL SAMPLE LOCATION
- MW-1 GROUNDWATER MONITORING WELL

APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

522.10 GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)

522.10 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)



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FOR: STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

**GROUNDWATER ELEVATION
CONTOUR MAP
MARCH 16, 2011**

FIGURE:
2

JOB NUMBER:
211502037

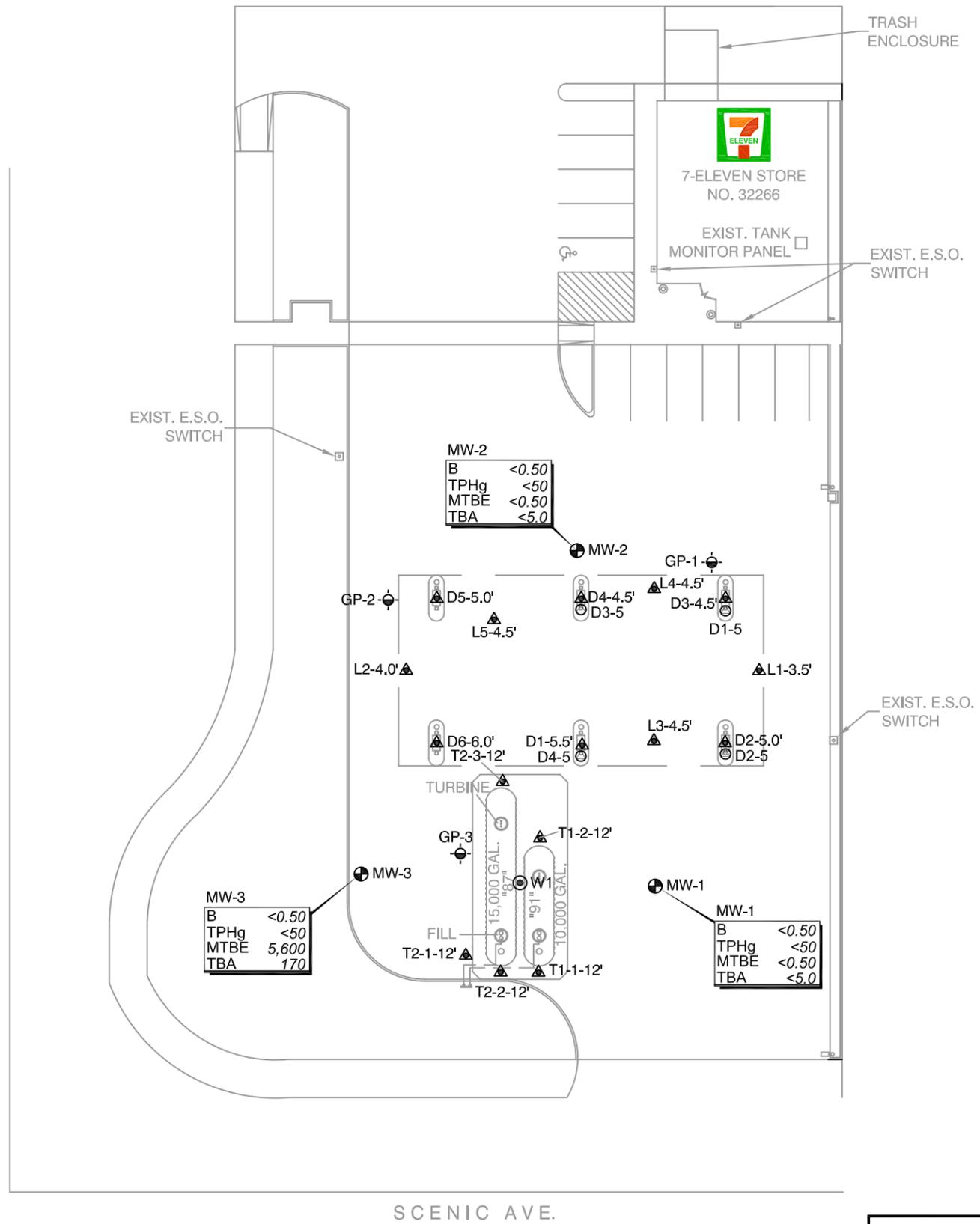
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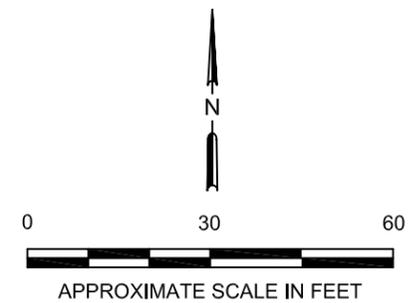
DATE:
03/25/11

VASCO ROAD



LEGEND:

- W1 ⊙ UST EXCAVATION WATER SAMPLE LOCATION
- GP-1 ⊕ GEOPROBE SAMPLE LOCATION
- L5-4.5' ▲ 2008 SOIL SAMPLE LOCATION
- D1-5 ⊙ 2005 SOIL SAMPLE LOCATION
- MW-1 ⊕ GROUNDWATER MONITORING WELL
- B BENZENE (μg/L)
- TPHg TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (μg/L)
- MtBE METHYL TERTIARY BUTYL ETHER (μg/L)
- TBA TERTIARY BUTYL ALCOHOL (μg/L)
- μg/L MICROGRAMS PER LITER



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FOR: 
STORE NO. 32266
1339 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

**GROUNDWATER HYDROCARBON
CONCENTRATION MAP
MARCH 16, 2011**

FIGURE:
3

JOB NUMBER:
211502037

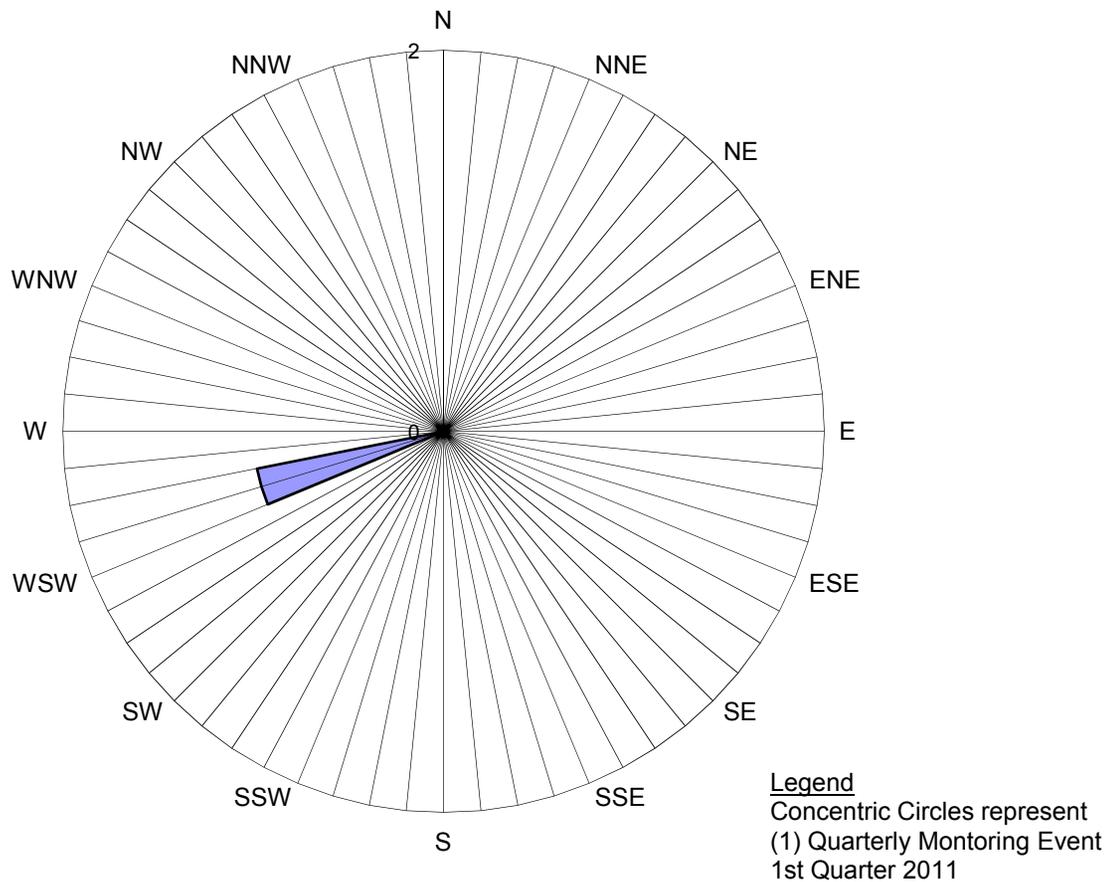
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DATE:
03/25/11

Figure 4
Groundwater Flow Direction Rose Diagram
7-Eleven #32266
1339 North Vasco, Livermore, California



■ Groundwater Flow Direction

Tables

TABLE 1
First Quarter 2011 Groundwater Monitoring and Analytical Data

7-Eleven Store #32266
 1339 North Vasco Road
 Livermore, California

Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	TPHg (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
MW-1 530.22	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0		2.04	8.07	0.00	522.15
MW-2 530.55	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0		1.63	8.31	0.00	522.24
MW-3 530.74	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	5,600	<0.50	<0.50	10	170		2.54	9.11	0.00	521.63

Explanation:

BTEX, TPHg, MtBE, DIPE, EtBE, TAME, and TBA by 8260B

TPHg = Total petroleum hydrocarbons-as-gasoline

MtBE = Methyl-tert-butyl ether

DIPE = Diisopropyl ether

EtBE = Ethyl-tert-butyl ether

TAME = Tert-amyl-methyl ether

TBA = Tert-butyl alcohol

TOC = Top of casing elevation in feet above mean sea level

ug/L = micrograms per Liter or parts-per-billion

mg/L = milligrams per liter

< = Not detected above laboratory reporting limit

TABLE 2
Historical Water and/or Groundwater Sample Analytical Results

7-Eleven Store #32266
 1339 Vasco Road
 Livermore, California

Sample I.D. (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	TPH _g (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	EtOH (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)	WTE (feet)
UST Excavation Groundwater Sample																			
W1	01/28/05	25	290	62	520	3,400	180	<1.5	<1.5	<1.5	15	<1.5	<1.5	2,600		--	--	--	--
Baker Tank Samples																			
BT-1	02/04/05	<0.50	<0.50	<0.50	0.70	<50	340	--	--	--	--	--	--	--		--	--	--	--
BT-2	02/04/05	<0.90	<0.90	<0.90	<0.90	<90	400	--	--	--	--	--	--	--		--	--	--	--
Grab Groundwater Samples																			
GP-1W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--		--	--	--	--
GP-2W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	2.9	<0.50	<0.50	<0.50	<5.0	--	--	--		--	--	--	--
GP-3W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	380	<0.50	<0.50	0.71	<5.0	--	--	--		--	--	--	--
Monitoring Well Samples																			
MW-1 530.22	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--		2.04	8.07	0.00	522.15
MW-2 530.55	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--		1.63	8.31	0.00	522.24
MW-3 530.74	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	5,600	<0.50	<0.50	10	170	--	--	--		2.54	9.11	0.00	521.63

Explanation:
 BTEX, TPH_g, MtBE, DIPE, EtBE, TAME, and TBA by 8260B
 TPH_g = Total petroleum hydrocarbons-as-gasoline
 MtBE = Methyl-tert-butyl ether
 DIPE = Diisopropyl ether
 EtBE = Ethyl-tert-butyl ether
 TAME = Tert-amyl-methyl ether
 TBA = Tert-butyl alcohol
 EDB = 1,2-Dibromoethane
 EDC = 1,2-Dichloroethane
 EtOH = Ethanol
 TOC = Top of casing elevation in feet above mean sea level
 UST = Underground Storage Tank
 µg/L = micrograms per Liter or parts-per-billion
 mg/L = milligrams per liter
 < = Not detected above laboratory reporting limit
 -- = Not sampled/not measured

**Table 3
Soil Boring Details**

7-Eleven Store #32266
1339 North Vasco Road
Livermore, CA

Well I.D.	Drill Date	Boring Depth (feet bgs)	Well Diameter (inches)	Screen		Screen Length (feet)	Comments
				Top (feet bgs)	Bottom (feet bgs)		
Soil Borings							
GP-1	04/20/10	20	--	--	--	--	
GP-2	04/20/10	25	--	--	--	--	
GP-3	04/20/10	30	--	--	--	--	
Monitoring Wells							
MW-1	02/23/11	20	2	5	20	15	
MW-2	02/24/11	20	2	5	20	15	
MW-3	02/23/11	25	2	5	20	15	
Explanation							
bgs = Below ground surface -- = Data Not Available/Not Applicable							

Table 4
Groundwater Gradient and Flow Direction
 7-Eleven Store # 13916
 5630 East Ashlan Avenue
 Fresno, California

Well No.	Monitoring Date	DTW (ft bgs)	Groundwater Gradient (feet per foot)	Groundwater Flow Direction																
				N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
MW-1	03/16/11	8.07	0.007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Average Values		8.07	0.007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Minumum Values		8.07	0.007																	
Maximum Values		8.07	0.007																	

Explanation
 TOC = Top of Casing (elevation in feet above mean sea level)
 DTW = Depth to water below grade surface as measured from TOC
 Number of Events **1** Events

Attachment A Field Notes

JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	211502037.220.0700
SITE ADDRESS:	1339 North Vasco Road Livermore, California	START DATE:	3/15/11
PREPARED FOR:	Brian Branscum	DATE PREPARED:	3/10/2011
		PREPARED BY:	Colin Ryan

SITE VISITATION REPORT

Name(s) BRIAN BRANSCUM Date: 3/15/11 / 3/16/11 Did you call in? Yes No
 Arrival Time: 1000/0900 "Departure Time: 1030 / 1200 Who did you call? Colin Ryan
 Weather Notations: SUN CLOUDY RAIN SNOW Temperature 50-60's F

HAZ WASTE		DRUM INVENTORY	
<u>1</u>			
<u>3</u>	WATER	<u>0</u>	CARBON
<u>8</u>	SOIL	<u>0</u>	EMPTY
			TOTAL OPEN TOP
			<u>12</u>
			TOTAL BUNG TOP
			<u>0</u>

HEALTH AND SAFETY ASSESSMENT

PPE, HASP, Hospital Route, Vehicle/Foot Traffic, Delivery Trucks, Slips/Trips/Falls, Scope of Work.

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

3/15/11
0730-1030 - Truck inspection, drove to site. Contacted Colin & Ryan regarding no drums onsite for purge H2O.
1030-1230 - Drove to site 7-11# 20632 in Stockton, picked up 1-empty 55-gal drum. Drove home.

3/16/11
0730-0900 - Truck inspection, drove to site.
0900-0930 - Tailgate meeting, started paperwork, deconed & calibrated equipment.
0930-1000 - Opened, then gauged wells per gauging form.
1000-1135 - Purged, then sampled wells gauged.
1135-1150 - Released purge H2O from truck to onsite 55-gal drum.
1150-1200 - Packed up equipment, finished paperwork.
1200-1300 - Drove to site in San Jose.

Containers Unlimited
3375 Arden Rd. Hayward, CA

JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	211502037.220.0700
SITE ADDRESS:	1339 North Vasco Road	START DATE:	3/15/11
	Livermore, California	DATE PREPARED:	3/10/2011
PREPARED FOR:	Brian Branscum	PREPARED BY:	Colin Ryan

GROUNDWATER GAUGING FORM

MEASURED TO TOC

WELL I.D.	CONST. DTB	WELL DIAM.	WELL ELEV. TOC	DTB	DTW	DTP/PT	D.O. (mg/L)	TIME	COMMENTS Please note if well needs locking cap or street box repair
MW-1	20	2"	/	19.06	8.07	,	2.04	0950	
MW-2	20	2"	/	19.26	8.31	,	1.63	0955	
MW-3	20	2"	/	20.13	9.11	,	2.54	1000	

Stantec Consulting Corp.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #32266 PURGED BY: Brian Branscum WELL I.D.: MW- 1
 CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Brian Branscum SAMPLE I.D.: MW- 1
 LOCATION: 1339 North Vasco Road, Livermore, Califor QA SAMPLES: None

DATE PURGED 3/16/11 START (2400hr) 1015 END (2400hr) 1031
 DATE SAMPLED 3/16/11 SAMPLE TIME (2400hr) 1035
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 19.06 CASING VOLUME (gal) = 1.8
 DEPTH TO WATER (feet) = 8.07 CALCULATED PURGE (gal) = 5.4
 WATER COLUMN HEIGHT (feet) = 10.99 ACTUAL PURGE (gal) = 7.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3/16/11</u>	<u>1025</u>	<u>1.8</u>	<u>15.6</u>	<u>929</u>	<u>7.04</u>	<u>BRN</u>	<u>MED</u>
<u>↓</u>	<u>1028</u>	<u>3.6</u>	<u>17.2</u>	<u>1118</u>	<u>7.02</u>	<u>BRN</u>	<u>MED</u>
<u>↓</u>	<u>1031</u>	<u>5.4</u>	<u>18.7</u>	<u>1556</u>	<u>7.00</u>	<u>BRN</u>	<u>MED</u>

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 8.43 SAMPLE TURBIDITY: MED

80% RECHARGE: YES NO ANALYSES: BTEX, TPHg, 5 Oxygenates (EPA 8260B)

ODOR: N/A SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: _____

SAMPLING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: GOOD LOCK#: Added new lock

REMARKS: D.O. - 2.04

SIGNATURE: B.A.B.

Stantec Consulting Corp.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #32266 PURGED BY: Brian Branscum WELL I.D.: MW- 2
 CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Brian Branscum SAMPLE I.D.: MW- 2
 LOCATION: 1339 North Vasco Road, Livermore, Califor QA SAMPLES: None

DATE PURGED 3/16/11 START (2400hr) 1045 END (2400hr) 1101
 DATE SAMPLED 3/16/11 SAMPLE TIME (2400hr) 1105
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 19.26 CASING VOLUME (gal) = 1.8
 DEPTH TO WATER (feet) = 8.31 CALCULATED PURGE (gal) = 5.4
 WATER COLUMN HEIGHT (feet) = 10.95 ACTUAL PURGE (gal) = 7.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3/16/11</u>	<u>1055</u>	<u>1.8</u>	<u>18.1</u>	<u>2119</u>	<u>6.91</u>	<u>BRN</u>	<u>MED</u>
<u>↓</u>	<u>1058</u>	<u>3.6</u>	<u>17.4</u>	<u>2176</u>	<u>7.03</u>	<u>BRN</u>	<u>MED</u>
<u>↓</u>	<u>1101</u>	<u>5.4</u>	<u>17.4</u>	<u>2157</u>	<u>7.04</u>	<u>BRN</u>	<u>MED</u>

SAMPLE DEPTH TO WATER: 8.69 SAMPLE INFORMATION SAMPLE TURBIDITY: MED

80% RECHARGE: YES NO ANALYSES: BTEX, TPHg, 5 Oxygenates (EPA 8260B)
 ODOR: N/A SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT

_____ Bladder Pump _____ Bailer (Teflon)
 _____ Centrifugal Pump _____ Bailer (PVC)
 Submersible Pump _____ Bailer (Stainless Steel)
 _____ Peristaltic Pump _____ Dedicated _____
 Other: _____
 Pump Depth: _____

SAMPLING EQUIPMENT

_____ Bladder Pump _____ Bailer (Teflon)
 _____ Centrifugal Pump Bailer (_____ PVC or disposable)
 _____ Submersible Pump _____ Bailer (Stainless Steel)
 _____ Peristaltic Pump _____ Dedicated _____
 Other: _____

WELL INTEGRITY: GOOD LOCK#: Added new lock & cap
 REMARKS: D.O. - 1.63

SIGNATURE: [Signature] Page 2 of 3

Stantec Consulting Corp.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 7-Eleven Store #32266 PURGED BY: Brian Branscum WELL I.D.: MW- 3
 CLIENT NAME: 7-Eleven, Inc. SAMPLED BY: Brian Branscum SAMPLE I.D.: MW- 3
 LOCATION: 1339 North Vasco Road, Livermore, Califor QA SAMPLES: None

DATE PURGED 3/16/11 START (2400hr) 1115 END (2400hr) 1131
 DATE SAMPLED 3/16/11 SAMPLE TIME (2400hr) 1135
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 20.13 CASING VOLUME (gal) = 1.8
 DEPTH TO WATER (feet) = 9.11 CALCULATED PURGE (gal) = 5.4
 WATER COLUMN HEIGHT (feet) = 11.02 ACTUAL PURGE (gal) = 7.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>3/16/11</u>	<u>1125</u>	<u>1.8</u>	<u>17.4</u>	<u>2144</u>	<u>7.13</u>	<u>BRN</u>	<u>MED</u>
<u>↓</u>	<u>1128</u>	<u>3.6</u>	<u>17.9</u>	<u>1642</u>	<u>7.07</u>	<u>BRN</u>	<u>MED</u>
<u>↓</u>	<u>1131</u>	<u>5.4</u>	<u>18.5</u>	<u>1527</u>	<u>6.92</u>	<u>LT. BRN</u>	<u>MED/LOW</u>

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.46 SAMPLE TURBIDITY: MED/LOW

80% RECHARGE: YES _____ NO _____ ANALYSES: BTEX, TPHg, 5 Oxygenates (EPA 8260B)

ODOR: N/A SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT

_____ Bladder Pump _____ Bailer (Teflon)
 _____ Centrifugal Pump _____ Bailer (PVC)
 Submersible Pump _____ Bailer (Stainless Steel)
 _____ Peristaltic Pump _____ Dedicated _____

Other: _____

Pump Depth: _____

SAMPLING EQUIPMENT

_____ Bladder Pump _____ Bailer (Teflon)
 _____ Centrifugal Pump Bailer (_____ PVC or disposable)
 _____ Submersible Pump _____ Bailer (Stainless Steel)
 _____ Peristaltic Pump _____ Dedicated _____

Other: _____

WELL INTEGRITY: GOOD LOCK#: Added new lock

REMARKS: D.O. - 2.54

SIGNATURE: B. A. B.

Attachment B
Certified Laboratory Analytical Reports
and Chain-of-Custody Documentation



Laboratory Results

Damon Brown
Stantec Consulting Corporation
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Subject : 3 Water Samples
Project Name : 7-Eleven Store #32266
Project Number : 211502037.220

Dear Mr. Brown,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff

Project Name : **7-Eleven Store #32266**

Project Number : **211502037.220**

Sample : **MW-1**

Matrix : Water

Lab Number : 76804-01

Sample Date :03/16/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:16
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:16
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:16
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:16
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:16
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:16
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:16
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:16
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/21/11 14:16
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/21/11 14:16
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	03/21/11 14:16
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	03/21/11 14:16

Project Name : **7-Eleven Store #32266**

Project Number : **211502037.220**

Sample : **MW-2**

Matrix : Water

Lab Number : 76804-02

Sample Date :03/16/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:51
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:51
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:51
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:51
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:51
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:51
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:51
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 14:51
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/21/11 14:51
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/21/11 14:51
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	03/21/11 14:51
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	03/21/11 14:51

Project Name : **7-Eleven Store #32266**

Project Number : **211502037.220**

Sample : **MW-3**

Matrix : Water

Lab Number : 76804-03

Sample Date :03/16/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 15:26
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 15:26
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 15:26
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 15:26
Methyl-t-butyl ether (MTBE)	5600	40	ug/L	EPA 8260B	03/22/11 01:31
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 15:26
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/11 15:26
Tert-amyl methyl ether (TAME)	10	0.50	ug/L	EPA 8260B	03/21/11 15:26
Tert-Butanol	170	5.0	ug/L	EPA 8260B	03/21/11 15:26
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/21/11 15:26
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	03/21/11 15:26
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	03/21/11 15:26

QC Report : Method Blank DataProject Name : **7-Eleven Store #32266**Project Number : **211502037.220**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	03/21/2011
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	03/21/2011
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/21/2011
1,2-Dichloroethane-d4 (Surr)	99.6		%	EPA 8260B	03/21/2011
Toluene - d8 (Surr)	100		%	EPA 8260B	03/21/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **7-Eleven Store #32266**Project Number : **211502037.220**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether	76771-10	4.0	39.9	39.6	43.6	41.6	ug/L	EPA 8260B	3/21/11	99.3	94.9	4.50	69.7-121	25
Benzene	76800-01	<0.50	40.0	40.0	39.6	38.7	ug/L	EPA 8260B	3/21/11	98.9	96.8	2.20	80-120	25
Diisopropyl ether	76800-01	<0.50	40.0	40.0	40.0	39.1	ug/L	EPA 8260B	3/21/11	100	97.7	2.27	80-120	25
Ethyl-tert-butyl ether	76800-01	<0.50	40.0	40.0	40.1	39.6	ug/L	EPA 8260B	3/21/11	100	99.0	1.29	76.5-120	25
Ethylbenzene	76800-01	<0.50	40.0	40.0	41.2	40.3	ug/L	EPA 8260B	3/21/11	103	101	2.13	80-120	25
Methyl-t-butyl ether	76800-01	9.4	39.9	39.9	48.6	48.1	ug/L	EPA 8260B	3/21/11	98.2	97.1	1.12	69.7-121	25
P + M Xylene	76800-01	<0.50	40.0	40.0	41.2	40.6	ug/L	EPA 8260B	3/21/11	103	101	1.46	76.8-120	25
Tert-Butanol	76800-01	6.2	200	200	204	202	ug/L	EPA 8260B	3/21/11	98.8	97.8	1.04	80-120	25
Tert-amyl-methyl ether	76800-01	<0.50	40.0	40.0	40.5	40.1	ug/L	EPA 8260B	3/21/11	101	100	1.15	78.9-120	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **7-Eleven Store #32266**

Project Number : **211502037.220**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene	76800-01	<0.50	40.0	40.0	40.0	39.2	ug/L	EPA 8260B	3/21/11	100	98.1	2.00	80-120	25

QC Report : Laboratory Control Sample (LCS)Project Name : **7-Eleven Store #32266**Project Number : **211502037.220**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	3/21/11	93.5	69.7-121
Benzene	39.9	ug/L	EPA 8260B	3/21/11	84.8	80-120
Diisopropyl ether	39.9	ug/L	EPA 8260B	3/21/11	83.8	80-120
Ethyl-tert-butyl ether	39.9	ug/L	EPA 8260B	3/21/11	84.7	76.5-120
Ethylbenzene	39.9	ug/L	EPA 8260B	3/21/11	85.4	80-120
Methyl-t-butyl ether	39.8	ug/L	EPA 8260B	3/21/11	83.7	69.7-121
P + M Xylene	39.9	ug/L	EPA 8260B	3/21/11	85.6	76.8-120
TPH as Gasoline	500	ug/L	EPA 8260B	3/21/11	104	70.0-130
Tert-Butanol	199	ug/L	EPA 8260B	3/21/11	84.7	80-120
Tert-amyl-methyl ether	39.9	ug/L	EPA 8260B	3/21/11	85.8	78.9-120
Toluene	39.9	ug/L	EPA 8260B	3/21/11	85.3	80-120

