

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

Fax: (916) 861-0

September 24, 2013

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

RE: Enclosed Quarterly Groundwater Monitoring Report, Third Quarter 2013 7-Eleven Store #32266 1339 North Vasco Road Livermore, CA 94551 Stantec Project #:185750084.200.0506

Dear Mr. Wickham:

Stantec Consulting Services Inc. 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.

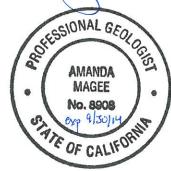
Sincerely, Stantec Consulting Services Inc.

Danielle Manning Associate Scientist Project Manager

RECEIVED

By Alameda County Environmental Health at 4:25 pm, Sep 25, 2013

Amanda Magee, P.G. Associate Geologist



LIMITED AUTHORIZATION

KNOW ALL MEN BY THESE PRESENTS:

That 7-ELEVEN, INC. ("7-Eleven"), a Texas corporation, acting by and through Doug Rosencrans, Vice President, does hereby nominate, constitute and appoint STANTEC CONSULTING SERVICES INC. a Delaware corporation formerly known as Stantec Consulting Corporation, 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 Amended and Restated Agreement by and between 7-Eleven and Agent dated as of January 1, 2010 (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, except as otherwise provided therein, or may be terminated at any time for any reason by 7-Eleven.

APPROVED AND EXECUTED this 10th day of January, 2012, to be effective as of the date hereof.

ATTEST: Assistant Secretary

7-ELEVEN, INC.

Name: Doug Rosencrans Title: Vice President

STATE OF TEXAS § COUNTY OF DALLAS §

BEFORE ME, the undersigned, a Notary Public in and for the County and State aforesaid, on this day personally appeared Doug Rosencrans and Steven R. Seldowitz, Vice President and Assistant Secretary, respectively, of 7-Eleven, Inc., known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that the same was the act of the said corporation, a Texas corporation, and that they executed the same as the act of such corporation for the purposes and consideration therein expressed and in the capacities therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 10th day of January, 2012.

My Commission Expires:

1.21313

Karen Pennell letzry Public, State of

LIMITED AUTHORIZATION - Page 2 991578.1/SPA/76088/0396/011012

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;

<u>Provided</u>, 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 of 7-Eleven.



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

Quarterly Groundwater Monitoring Report Third Quarter 2013

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

Stantec Project No.: 185750084.200.0506

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. Jose Rios P.O. Box 711 Dallas, TX 75221-0711

September 24, 2013



DATE: September 24, 2013

7-ELEVEN, INC. QUARTERLY REPORT

Store Number:	7-Eleven Store #32266
Site Address:	1339 North Vasco Road, Livermore, CA 94551
7-Eleven Contact:	Mr. Jose Rios
Consulting Company:	Stantec Consulting Services Inc. – Ms. Amanda Magee
Stantec Project No.:	185750084.200.0506
Primary Agency:	Alameda County Environmental Health Services (ACEHS)

WORK PERFORMED THIS PERIOD [Third Quarter 2013]

- 1. Conducted quarterly groundwater monitoring and sampling on July 18, 2013, and generated the quarterly report.
- 2. Submitted an Additional Site Assessment Report to ACEHS.

WORK PROPOSED FOR NEXT PERIOD [Fourth Quarter 2013]

1. Perform quarterly groundwater monitoring and sampling during fourth quarter of 2013, and prepare the quarterly report.

DISCUSSION

The site is an active 7-Eleven convenience store and retail gasoline fueling facility with one 15,000gallon gasoline underground storage tank (UST) and one 10,000-gallon gasoline 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.

Site Information

Current Phase of Project:	Groundwater Monitoring
Frequency of Monitoring and Sampling:	Quarterly, Five wells- MW-1 through MW-5
Are Liquid Phase Hydrocarbons Present On-site:	No
Water Supply Wells within a 2,000-foot radius and their Respective Direction:	Three municipal water supply wells (see Stantec work plan and results survey September, 2010)
Current Remediation Techniques:	None
Permits for Discharge:	None
Historic Range in Depth to Water (Measured Below Top of Casing):	MW-1, 7.88 to 8.51 feet

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Current Quarter Monitoring Data

Wells Monitored and Sampled:

Dissolved Oxygen Concentrations Measured In:

Depth to Groundwater (DTW) (Measured Below Top of Casing):

Average Change in Groundwater Elevation Since Last Event:

Groundwater Flow Direction and Gradient:

Current Qua	arter Analy	ytical	Data

Maximum TPHg Concentrations:

Maximum Benzene Concentrations:

Maximum MtBE Concentrations:

Maximum TBA Concentrations:

Five wells - MW-1 through MW-5 Five wells - MW-1 through MW-5 8.46 to 9.61 feet 9 0.16 foot decrease West-southwest @ 0.006 foot per foot (Figure 2) (See Figure 3 and Table 1) Not Detected, <50 to <150 µg/L</td> Not Detected, <0.50 to <1.5 µg/L</td> MW-3, 880 µg/L

(See Figure 2 and Table 1)

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 27 soil samples were collected during the UST replacement activities as follows:

MW-3, 15 µg/L

- 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 11 four-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 tert-butyl alcohol (TBA) and methyl tertiary butyl ether (MtBE) detected were 2.6 milligrams per kilogram (mg/kg) and 2.4 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 (μ g/L) and benzene was reported at 25 μ g/L in UST excavation water sample W1 (Table 2). TPHg was detected at 3,400 μ g/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 μ g/L. MtBE was detected in both samples at concentrations of 340 μ g/L (BT-1) and 400 μ g/L (BT-2). Based on the results of the water samples collected, a UST Unauthorized Release report was completed and submitted to the Livermore-Pleasanton Fire Department (LPFD) and the California Regional Water Quality Control Board (CRWQCB).

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On December 4, 2008, a Stantec Consulting Corporation (now Stantec Consulting Services Inc. [Stantec]) field scientist collected soil samples 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 D2-5.0. Soil sample D2-5.0 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 D1-5.0 at concentrations of 0.024 mg/kg and 0.0076 mg/kg, respectively. Di-isopropyl ether (DIPE), ethyl tert-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 a 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 μ g/L and 380 μ g/L, respectively. TPHg, BTEX, DIPE, EtBE, and TBA were not detected at concentration of 0.71 μ g/L. TPHg, BTEX, DIPE, EtBE, and TBA were not detected at concentration of 0.71 μ g/L. TPHg, BTEX, DIPE, EtBE, and TBA were not detected at concentration of 0.71 μ g/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 to the ACEHS in a report titled *Additional Soil and Groundwater Assessment*.

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.

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Between February 23 and 24, 2010, 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 borings 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 boring MW-3.

In a letter dated August 29, 2011, the ACEHS requested the submittal of a work plan for plume delineation to assess whether the plume extends to the water supply of the two wells located approximately 300 feet west of the site. On October 25, 2011, Stantec submitted the *Work Plan for Additional Assessment*. In a letter dated November 21, 2012, the ACEHS requested a revised work plan to address their technical comments. The *Revised Work Plan for Additional Assessment* was submitted on March 5, 2012. The revised work plan was approved by the ACEHS on March 26, 2012.

Between July 10 and 12, 2012, Stantec supervised the advancement of four direct push soil borings (GP-4 through GP-7). On July 20, 2012, Stantec submitted an *Additional Site Assessment Report* to the ACEHS. BTEX and TPHg were not detected above laboratory reporting limits in any of the submitted soil samples; MtBE was detected solely in soil samples collected from soil boring GP-5 with a maximum concentration of 0.056 mg/kg. TPHg and MtBE were detected in grab groundwater samples collected from soil boring GP-4 and GP-5 at maximum concentrations of 95 μ g/L and 350 μ g/L, respectively.

In an email dated July 24, 2012, the ACEHS approved the locations of proposed monitoring wells MW-4 and MW-5 as proposed in Stantec's July 20, 2012 *Additional Site Assessment Report*. Between September 4 and 7, 2012, Stantec supervised the installation of one offsite groundwater monitoring well (MW-4). Proposed groundwater monitoring well MW-5 was not installed at that time due to the presence of marked and unmarked utilities in the permitted area of the City of Livermore right-of-way. On October 5, 2012, Stantec submitted an *Additional Site Assessment Report*.

In a letter dated November 6, 2012, the ACEHS requested the submittal of work plan for the installation of monitoring well MW-5 after the first quarter 2013 groundwater monitoring and sampling event. On April 4, 2013, Stantec submitted a *Work Plan for Monitoring Well Installation*, which was conditionally approved by the ACEHS on April 22, 2013.

On June 17 and 18, 2013, Stantec supervised as National Exploration Wells and Pumps (National) of Richmond, California, installed groundwater monitoring well MW-5, and on July 18, 2013, Stantec submitted the *Additional Site Assessment Report* to the ACEHS. Soil samples collected during the advancement of MW-5 did not contain hydrocarbon concentration above laboratory reporting limits. The August 19, 2013 letter from the ACEHS requested that MW-5 be included in the quarterly groundwater monitoring schedule, and groundwater samples collected during the next event are to be analyzed for ethylene dibromide (EDB) and 1,2-dichloroethane (1,2 DCA) in addition to the current analytes.

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MONITORING AND SAMPLING PROCEDURES

The depth to water was measured to within 0.01 foot bgs in monitoring wells MW-1 through MW-5 from the top of casing (TOC) using a water level indicator. Dissolved oxygen concentrations were also measured in the wells 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 (COC) 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 through MW-5 were analyzed for the presence of BTEX, TPHg, MtBE, TBA, DIPE, EtBE, and TAME by EPA Method 8260B. The certified laboratory analytical report and COC 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 truckmounted 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.

Stantec

September 24, 2013 Page 6 of 6

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

Sincerely, Stantec Consulting Services Inc.

Prepared by:

ichtenburger Debbie Lichtenberger **Environmental Technician** SUFESSIONAL GEOLOGI Reviewed by: AMANDA MAGEE Amanda Magee, P.G No. 8908 PTE OF CALIFORNI exp 9-30-14 Associate Geologist

Reviewed by:

le Many

Danielle Manning Associate Scientist **Project Manager**

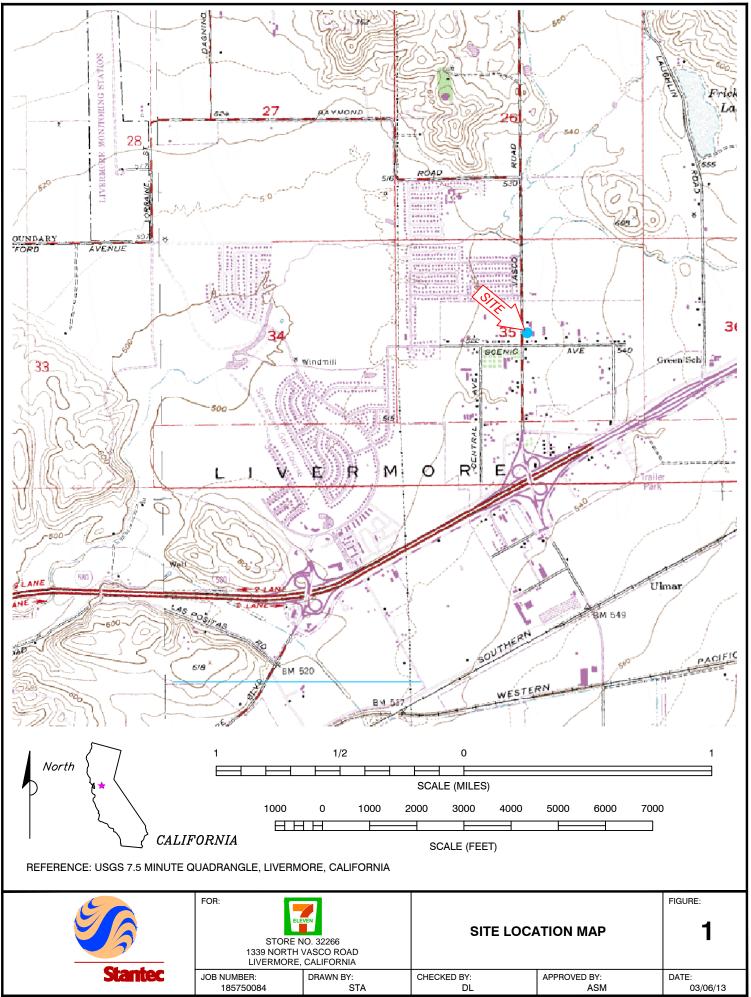
ATTACHMENTS

Figures Tables Attachment A - Field Notes Attachment B - Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

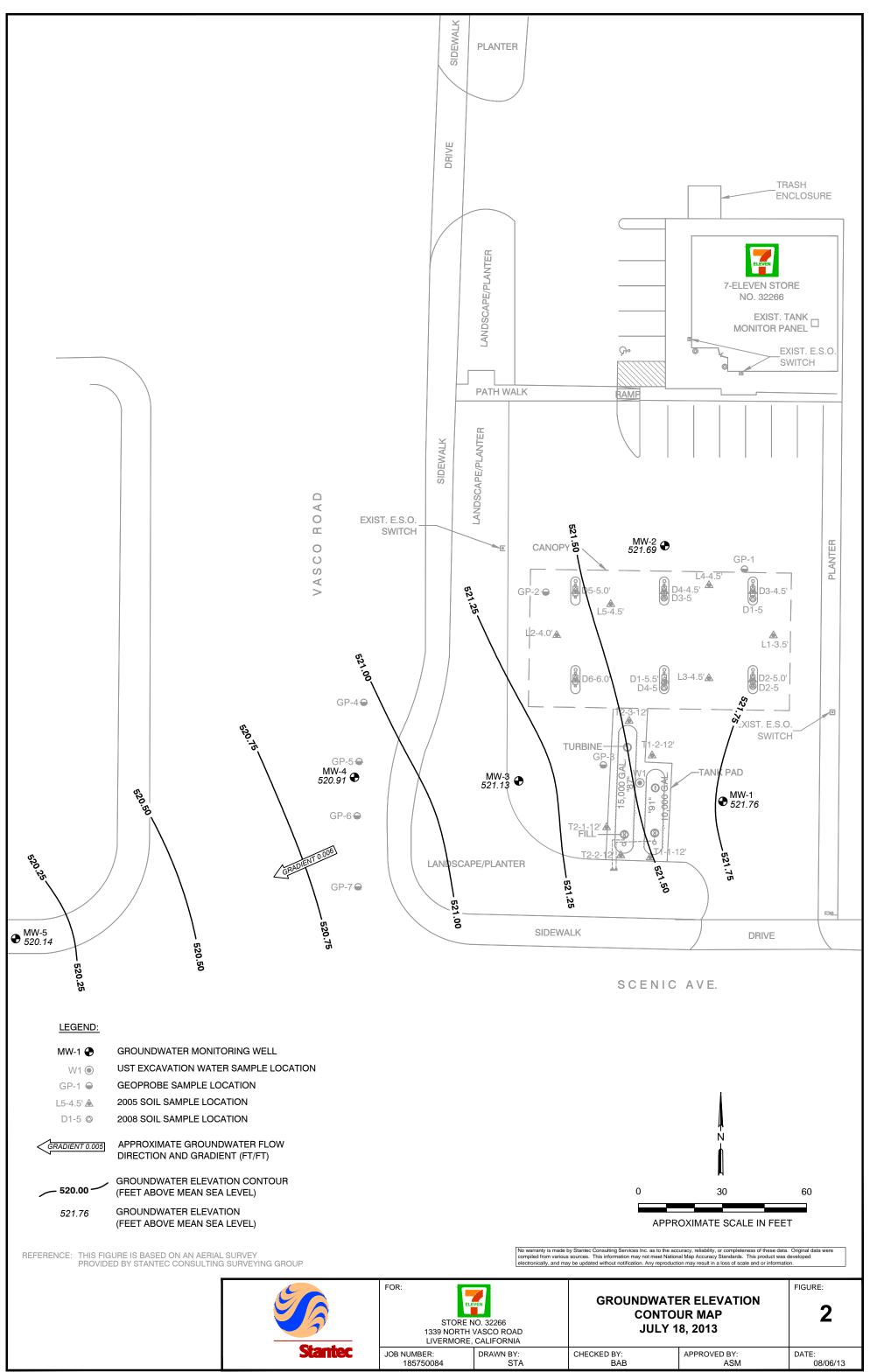
John Wainwright, Stantec, 308 East 4500 South, Suite 100, Murray, Utah 84107-3957 C:

Stantec

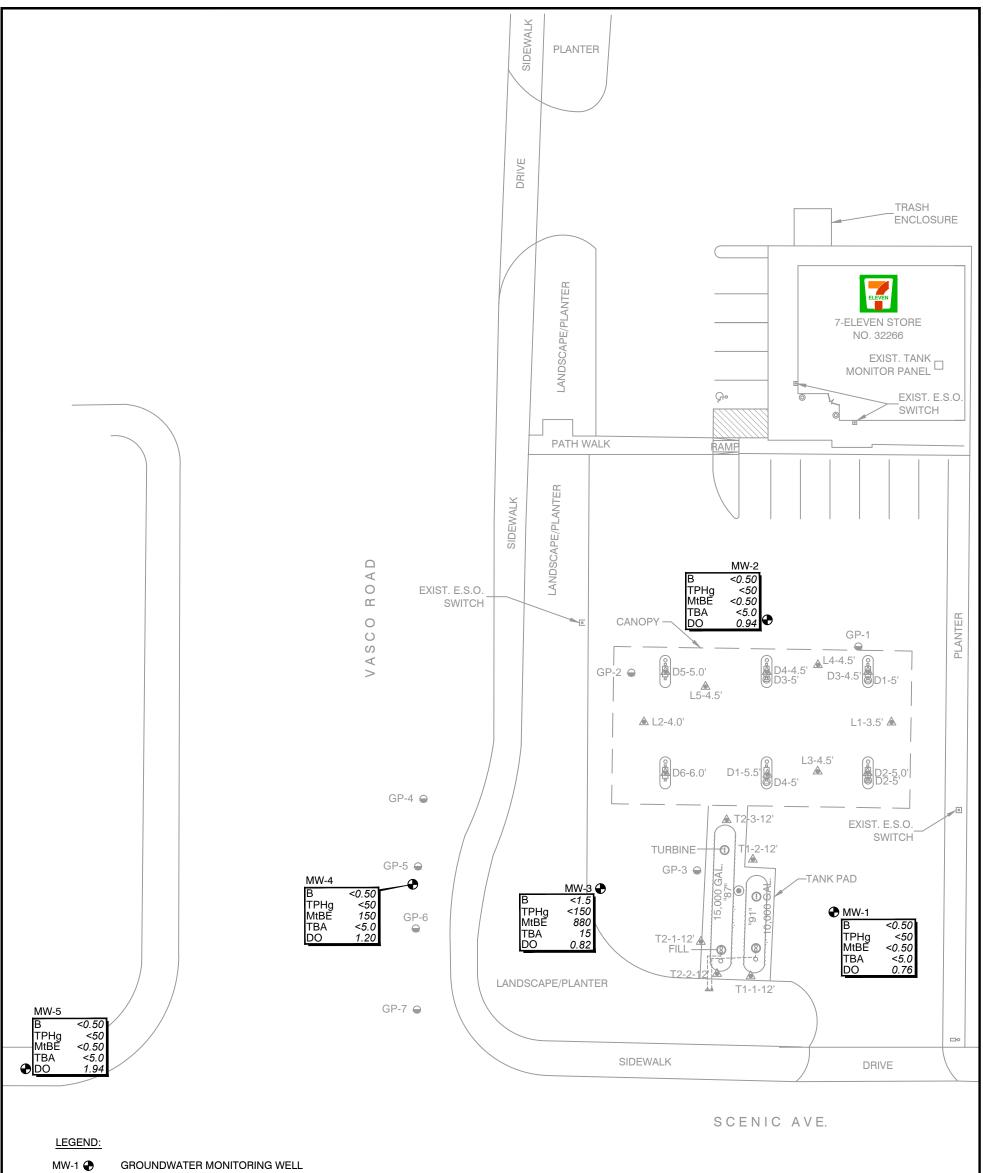
Figures



FILEPATH:M:\7-Eleven\32266\FIG 1-SITE LOCATION MAP.dwg | Layout Tab: Layout1 | Drafter: saguinaldo | Apr 11, 2013 at 10:42



FILEPATH:M:\7-Eleven\32266\AUTOPOST 2013\3Q 2013\FIG 2_7-11_32266_GW ELEV.dwg | Layout Tab: 11X17 P | Drafter: miramirez | Sep 06, 2013 at 13:41



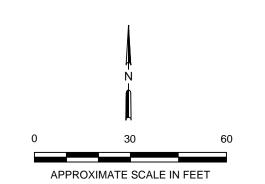
GROUNDWATER MONITORING WELL

W1 UST EXCAVATION WATER SAMPLE LOCA	ATION
--------------------------------------	--------------

- GEOPROBE SAMPLE LOCATION GP-1 👄
- L5-4.5' 🛦 2008 SOIL SAMPLE LOCATION
- D1-5 🔘 2005 SOIL SAMPLE LOCATION

В BENZENE (µg/L)

- TOTAL PETROLEUM HYDROCARBONS TPHg AS GASOLINE (µg/L)
- MtBE METHYL TERTIARY BUTYL ETHER (µg/L)
- TERT-BUTYL ALCOHOL (µg/L) TBA
- μg/L MICROGRAMS PER LITER

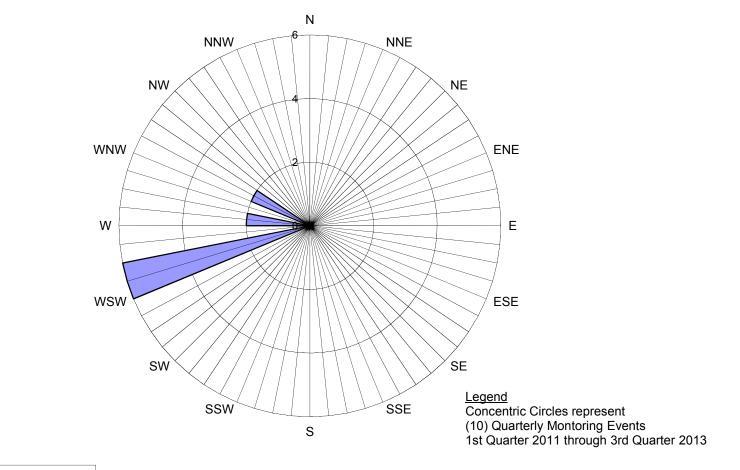


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	FOR: STORE N 1339 NORTH LIVERMORE,	VASCO ROAD	GROUNDWATER CONCENTR JULY 1	ATION MAP	FIGURE: 3
Stantec	JOB NUMBER: 185750084.200.0506	DRAWN BY: STA	CHECKED BY: BAB	APPROVED BY: ASM	DATE: 08/06/13

FILEPATH:M:\7-Eleven\32266\AUTOPOST 2013\3Q 2013\FIG 3_7-11_32266_CONC.dwg | Layout Tab: 11X17P | Drafter: saguinaldo | Sep 20, 2013 at 17:33

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



Groundwater Flow Direction

Stantec

Tables

TABLE 1
Third Quarter 2013 Groundwater Monitoring and Analytical Data

7-Eleven Store #32266 1339 North Vasco Road

									Livermore, Ca	llifornia								
Well ID/ Elevation (TOC)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)	TPHg (μg/L)	MtBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Notes	Dissolved Oxygen (mg/L)	DTW (feet)	SPT (feet)
MW-1 530.22	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		0.76	8.46	0.00
MW-2 530.55	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		0.94	8.86	0.00
MW-3 530.74	07/18/13	<1.5	<1.5	<1.5	<1.5	<150	880	15	<1.5	<1.5	1.7	<15	<1.5	<1.5	b	0.82	9.61	0.00
MW-4 529.93	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	150	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		1.20	9.02	0.00
MW-5 529.27	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50		1.94	9.13	0.00

Explanation:

BTEX, TPHg, MtBE, DIPE, ETBE, TAME, and TBA by 8260B TPHg = Total petroleum hydrocarbons as gasoline

MtBE = Methyl tertiary butyl ether DIPE = Diisopropyl ether EtBE = Ethyl tert-butyl ether TAME = Tertiary-amyl methyl ether TBA = Tert-butyl alcohol $\label{eq:total_total} \begin{array}{l} {\sf TOC} = {\sf Top} \mbox{ of casing elevation in feet above mean sea level} \\ ug/L = {\sf micrograms per Liter or parts-per-billion} \\ mg/L = {\sf milligrams per liter} \end{array}$

< = Not detected above laboratory reporting limit

Notes

b = Tert-Butanol (Tert-butyl alcohol) results may be biased slightly high. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. Kiff considers this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in rations of over 20:1. WTE (feet)

521.76

521.69

521.13

520.91

520.14

TABLE 2 Historical Water and/or Groundwater Sample Analytical Results

7-Eleven Store #32266 1339 North Vasco Road

Livermore, California

Sample				Ethyl	Total												Dissolved			
I.D.	Date	Benzene	Toluene	Benzene	Xylenes	TPHg	MtBE	тва	DIPE	EtBE	ТАМЕ	Methanol	Ethanol	1,2-DCA	EDB	Notes	Oxygen	DTW	SPT	WTE
(TOC)	2410	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ug/L)	(µg/L)	(µg/L)	(µg/L)		(mg/L)	(feet)	(feet)	(feet)
UST Exca	vation Gro				,	,		,	,	,	,		,	" • ,	,		((,	()	(1001)
W1	01/28/05	25	290	62	520	3,400	180	15	<1.5	<1.5	<1.5	<1.5	<1.5	2,600	2,600					
Baker Tan	k Samples	5																		<u>k</u>
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 Grou	undwater S	Samples																		
GP-1W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50									
GP-2W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	2.9	<5.0	<0.50	<0.50	<0.50									
GP-3W	04/20/10	<0.50	<0.50	<0.50	<0.50	<50	380	<5.0	<0.50	<0.50	0.71									
GP-4W	07/10/12	<0.50	<0.50	<0.50	<0.50	75	13									С				
GP-5W	07/11/12	< 0.50	< 0.50	< 0.50	< 0.50	95	350													
GP-7W	07/12/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50													
	g Well San	nples																		.
MW-1	00/40/44	-0.50	-0.50	-0.50	-0.50	-50	10 50	-5.0	-0.50	10 50	-0.50						0.04	0.07	0.00	500.45
530.22		< 0.50	< 0.50	< 0.50	< 0.50	<50	< 0.50	<5.0	< 0.50	< 0.50	< 0.50						2.04	8.07	0.00	522.15
	05/26/11	< 0.50	< 0.50	< 0.50	< 0.50	<50	< 0.50	<5.0	< 0.50	< 0.50	< 0.50					а	0.35	7.88	0.00	522.34
	08/09/11 10/17/11	< 0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<50 <50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50					а	0.71	8.30 8.27	0.00 0.00	521.92 521.95
	01/20/12	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<50 <50	< 0.50	<5.0 <5.0	< 0.50	<0.50	< 0.50					а	0.5 0.8	o.27 8.51	0.00	521.95
	04/05/12	<0.50 <0.50	<0.50 <0.50	< 0.50	<0.50 <0.50	<50 <50	< 0.50	<5.0	<0.50	<0.50	<0.50					a	0.8	8.22	0.00	521.71
	07/24/12	<0.50	<0.50 <0.50	<0.50	<0.50	<50 <50	<0.50	<5.0	<0.50	<0.50	<0.50						0.44	8.36	0.00	522.00
	09/21/12																	8.40	0.00	521.82
	10/25/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50						0.73	8.46	0.00	521.76
	01/16/13	< 0.50	< 0.50	< 0.50	< 0.50	<50	< 0.50	<5.0	< 0.50	< 0.50	< 0.50						0.92	8.34	0.00	521.88
	04/11/13	< 0.50	< 0.50	<0.50	< 0.50	<50	< 0.50	<5.0	< 0.50	< 0.50	< 0.50						1.08	8.28	0.00	521.94
	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50		<5.0	<0.50	<0.50		0.76	8.46	0.00	521.76
MW-2																				
530.55		<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50						1.63	8.31	0.00	522.24
	05/26/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50						0.46	8.37	0.00	522.18
	08/09/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50					а	0.60	8.82	0.00	521.73
	10/17/11	< 0.50	< 0.50	< 0.50	< 0.50	<50	< 0.50	<5.0	< 0.50	< 0.50	< 0.50						1.2	8.74	0.00	521.81
	01/20/12	< 0.50	< 0.50	< 0.50	< 0.50	<50	< 0.50	<5.0	< 0.50	< 0.50	< 0.50					а	0.7	8.96	0.00	521.59
	04/05/12	< 0.50	<0.50	< 0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	< 0.50						0.51	8.88	0.00	521.67
	07/24/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50						0.30	9.04	0.00	521.51 521.72
	09/21/12																 0.76	8.83	0.00	521.72 521.81
	10/25/12 01/16/13	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<50 <50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50						0.76 0.78	8.74 8.71	0.00 0.00	521.81
	01/16/13	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<50 <50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50						0.78	8.71 8.78	0.00	521.84
	04/11/13	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<50 <50	< 0.50	<5.0 <5.0	< 0.50	<0.50 <0.50	< 0.50		<5.0	 <0.50	 <0.50		0.94	o.70 8.86	0.00	521.77
	01/10/13	~0.00	~0.00	~0.00	-0.00	-30	~0.00	~5.0	~0.00	~0.00	-0.00		-0.0	-0.00	-0.00		0.34	0.00	0.00	521.09
																				1

TABLE 2 Historical Water and/or Groundwater Sample Analytical Results

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

Sample				Ethyl	Total												Dissolved			
I.D.	Date	Benzene	Toluene	Benzene	Xylenes	TPHg	MtBE	ТВА	DIPE	EtBE	TAME	Methanol	Ethanol	1,2-DCA	EDB	Notes	Oxygen	DTW	SPT	WTE
(TOC)		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ug/L)	(µg/L)	(µg/L)	(µg/L)		(mg/L)	(feet)	(feet)	(feet)
MW-3																				
530.74	03/16/11	<0.50	<0.50	<0.50	<0.50	<50	5,600	170	<0.50	<0.50	10						2.54	9.11	0.00	521.63
	05/26/11	<0.50	<0.50	<0.50	<0.50	<50	3,200	180	<0.50	<0.50	5.4						0.32	9.15	0.00	521.59
	08/09/11	<0.50	<0.50	<0.50	<0.50	<50	1,700	78	<0.50	<0.50	2.8						0.42	9.36	0.00	521.38
	10/17/11	<0.50	<0.50	<0.50	<0.50	<50	1,900	85	<0.50	<0.50	2.9					b	0.6	9.37	0.00	521.37
	01/20/12	<0.50	<0.50	<0.50	<0.50	<50	1,100	58	<0.50	<0.50	2.2						0.5	9.57	0.00	521.17
	04/05/12	<2.5	<2.5	<2.5	<2.5	<250	2,000	57	<2.5	<2.5	3.3					b	0.47	9.44	0.00	521.30
	07/24/12	<0.50	<0.50	<0.50	<0.50	<50	2,000	50	<0.50	<0.50	3.9					b	0.36	9.65	0.00	521.09
	09/21/12	<1.5	<1.5	<1.5	<1.5	<150	760	32	<1.5	<1.5	1.5					b		9.55	0.00	521.19
	10/25/12	<1.5	<1.5	<1.5	<1.5	<150	670	25	<1.5	<1.5	<1.5					b	0.75	9.50	0.00	521.24
	01/16/13	<1.5	<1.5	<1.5	<1.5	<150	1,200	30	<1.5	<1.5	2.4					b	0.73	9.23	0.00	521.51
	04/11/13	<2.5	<2.5	<2.5	<2.5	<250	1,700	27	<2.5	<2.5	<2.5					b	0.81	9.44	0.00	521.30
	07/18/13	<1.5	<1.5	<1.5	<1.5	<150	880	15	<1.5	<1.5	1.7		<15	<1.5	<1.5	b	0.82	9.61	0.00	521.13
MW-4																				
529.93	09/21/12	<0.50	<0.50	<0.50	<0.50	<50	400	<5.0	<0.50	<0.50	0.69							9.01	0.00	520.92
	10/25/12	<0.50	<0.50	<0.50	<0.50	<50	270	<5.0	<0.50	<0.50	<0.50						0.79	9.01	0.00	520.92
	01/16/13	<0.50	<0.50	<0.50	<0.50	<50	47	<5.0	<0.50	<0.50	<0.50						0.87	8.86	0.00	521.07
	04/11/13	<0.50	<0.50	<0.50	<0.50	<50	290	<5.0	<0.50	<0.50	<0.50						1.07	8.80	0.00	521.13
	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	150	<5.0	<0.50	<0.50	<0.50		<5.0	<0.50	<0.50		1.20	9.02	0.00	520.91
MW-5																				├
529.27	07/18/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50		<5.0	<0.50	<0.50		1.94	9.13	0.00	520.14
<u> </u>																			<u> </u>	

Explanation:

BTEX, TPHg, MtBE, DIPE, ETBE, TAME, and TBA by 8260B TPHg = Total petroleum hydrocarbons as gasoline MtBE = Methyl tertiary butyl ether DIPE = Diisopropyl ether EtBE = Ethyl tert-butyl ether TAME = Tertiary-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 ug/L = micrograms per Liter or parts-per-billion mg/L = milligrams per liter

< = Not detected above laboratory reporting limit

-- = Not sampled/not measured

Notes

a = Matrix Spike/Matrix Spike Duplicate for the analyte MtBE were affected by the analyte concentrations already present in the un-spike sample.

b = Tert-Butanol (Tert-butyl alcohol) results may be biased slightly high. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. that contain MtBE/Tert-Butanol in rations of over 20:1.

c = Analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4 inch in diameter.

Table 3 Soil Boring Details

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

		Boring	Well	Screen		Screen	
Well	Drill	Depth	Diameter	Тор	Bottom	Length	Comments
I.D.	Date	(feet bgs)	(inches)	(feet bgs)	(feet bgs)	(feet)	
Soil Boring	s						
GP-1	04/20/10	20					
GP-2	04/20/10	25					
GP-3	04/20/10	30					
GP-4	07/10/12	25					Off-site soil boring
GP-5	07/10/12	25					Off-site soil boring
GP-6	07/11/12	25					Off-site soil boring
GP-7	07/12/12	25					Off-site soil boring
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	
MW-4	09/07/12	20	2	5	20	15	Off-site monitoring well
MW-5	06/18/13	20.25	2	5	20	15	Off-site monitoring well

--- = Data Not Available/Not Applicable

Table 4Groundwater Gradient and Flow Direction7-Eleven Store # 322661339 North Vasco RoadLivermore, California

Well No.	Monitoring Date	DTW	Groundwater Gradient							Ground	dwater F	low Di	rection						
	Date	(ft bgs)	(feet per foot)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
MW-1	03/16/11	8.07	0.008	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	05/26/11	7.88	0.010	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	08/09/11	8.30	0.008	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	10/17/11	8.27	0.008	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	01/20/12	8.51	0.009	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	04/05/12	8.22	0.010	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	07/24/12	8.36	0.012	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	10/25/12	8.46	0.007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	04/11/13	8.28	0.005	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	07/18/13	8.46	0.006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Aver	age Values	8.28	0.008	0	0	0	0	0	0	0	0	0	0	0	6	2	2	0	0
Minum	um Values	7.88	0.005																
Maxim	um Values	8.51	0.012																
Explanati	ion																		
TOC = Top of Casing (elevation in feet above mean sea level)																			
DTW = De	epth to water be	elow grade	surface as measured	from TO	C														
Number o	f Events	10	Events																
]						

Stantec

Attachment A Field Notes

-				
JOB NAME:	7-Eleven Store #32266		JOB NUMBER:	185750084.200.0700
SITE ADDRESS:	1339 North Vasco Road		START DATE:	7/18/2013
	Livermore, California		DATE PREPARED:	7/11/2013
PREPARED FOR:	Brian Branscum		PREPARED BY:	Brian Branscum
		E VISITATION		
Name(s) Brian Br			_ Did you call in?	Yes No
Arrival Time: 0815			_ Who did you call?	Danielle Manning
Weather Notations:	SUN CLOUDY	RAIN	SNOW	Temperature 60-80's F
			FORY	
and the second se	S ENVIRONMENTAL:			
Purge Wate So		7-ELEVEN'S FAC		TOTALS:
So Concrete/Debri		Locked/Labeled HA2 Other:		Total Open Top
Other:	<u>8</u>	Other:	<u> </u>	
Empt	Y		Please	take a picture of anything not clearly labeled
	HEAI	LTH AND SAFETY	ASSESSMENT	
PPE, HASP, HOS	pital Route Vehicle/	East Traffic.	Delivery True	les slips Trips/Falls,
Traffic Cash	To take	to traine,	harring	s, one importants,
ingite com	of scope of work		and the second	
	DESCRIPTIC	ON OF ACTIVITIES	ONSITE AND NOTES	
0630-0815-T	ruck inspection, drove	to site.		
0815-0845 -T.	ilgate meeting, starte	& progrande	decored & cal	. equipment.
0845-1005 -00	1, ,	sells per que	A · -	1 latter in 1
	0900, reviewed Harp Sc	ope of work	Brandon Sch	p trattic control for
ولما	ell mw-4.			
1005-1040 - Op	ened, guaged, purged i	: sampled me	v-4 w traffic c	ontrol.
	urged then sampled			
		1 1		1
	leased purge Hap fr			drums.
1300-1310 - P.	ideed up equipment	t, finished	papenork.	
1310-1540 - D			. [
			1911 - CAT	
	-			
	•		· · · · · · · · · · · · · · · · · · ·	

JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	185750084.200.0700	
SITE ADDRESS:	1339 North Vasco Road	START DATE:	7/18/2013	
	Livermore, California	DATE PREPARED:	7/11/2013	
PREPARED FOR:	Brian Branscum	PREPARED BY:	Brian Branscum	

GROUNDWATER GAUGING FORM

MEASURE	IEASURED TO TOC									
WELL I.D.	CONST. DTB	WELL DIAM.	WELL ELEV. TOC	DTW	DTB	DT	P/PT	D.O. (mg/L)	TIME	COMMENTS Please note if well needs locking cap or street box repair
MW-1	20	2"	\sum	8.46	18.92	N	14	0.76	0930	
MW-2	20	2"		8.86	19.17		1	0.94	0935	
MW-5	20	2"		9.13	19.45		1	1.94	09 5 0	
MW-4	20	2"		9.02	19.30		I	1.20	1015	Traffic Control
MW-3	20	2"		9.61	20.04		1	0.82	1005	

Stantec Consulting Corp.						
	ATER SAMPL	E FIELD DATA S	HEET WELL I.D.: MW- (
CLIENT NAME:7-Eleven, Inc.	SAMPLED BY:	Brian Branscum	SAMPLE I.D.: MW- /			
LOCATION: 1339 North Vasco Road, Livern	iore, Califor		QA SAMPLES: None			
DATE PURGED 7 18 13 DATE SAMPLED 7 18 13	START (2400hr) SAMPLE TIME (END (2400hr) 1101			
SAMPLE TYPE: Groundwater X	Surface Wat	er Treatme	ent Effluent Other			
CASING DIAMETER: $2" \frac{X}{(0.17)}$	3" (0.38)	4" 5" (1.02	$\frac{6"}{(1.50)}$ $\frac{8"}{(2.60)}$ Other ${()}$			
DEPTH TO BOTTOM (feet) = 18.92		CASING	G VOLUME (gal) = 1.7			
DEPTH TO WATER (feet) = 8.46		CALCU	JLATED PURGE (gal) = 5.1			
WATER COLUMN HEIGHT (feet) = 10.46		ACTUA	AL PURGE (gal) = 7.0			
	FIELD N	IEASUREMENTS				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TEMP. (degrees C) 23.7 23.8 23.7	CONDUCTIVITY (umhos/cm) 2143 2137 2129	pH COLOR TURBIDITY (units) (visual) (NTU) (visual) MED (0.71 BRN MED/LON (0.72 UT. BRN LON			
SAMPLE DEPTH TO WATER: 8.75	SAMPLE	EINFORMATION	SAMPLE TURBIDITY: LOW			
)		SAMPLE TURBIDITY:			
80% RECHARGE: X YES NO	ANAI	LYSES: BTEX, TPHg, 5	5 Oxygenates (EPA 8260B)			
	SSEL / PRESERVA	TIVE: HCL				
PURGING EQUIPMENT Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC) X Submersible Pump Bailer (Stainless St Peristalic Pump Dedicated Other: Pump Depth:		Bladder Pump Centrifugal Pu Submersible F Peristalic Pun Other:	ump X Bailer (PVC or X disposable) Pump Bailer (Stainless Steel)			
WELL INTEGRITY: <u>GODD</u> REMARKS: D.O 0.76			LOCK#: YES			
SIGNATURE: JS.A.JS			Page <u>Z</u> of <u>5</u>			

Stantec Consulting Corp.						
WA	TER SAMPL	E FIELD DATA S	НЕЕТ			
PROJECT #: 7-Eleven Store #32266 CLIENT NAME: 7-Eleven, Inc. LOCATION: 1339 North Vasco Road, Livermedia		Brian Branscum Brian Branscum	WELL I SAMPL QA SAM	E I.D.: <u>MW-</u>	2	
DATE PURGED 7/19/13 DATE SAMPLED 7/18/13 SAMPLE TYPE: Groundwater X	START (2400hr) SAMPLE TIME (2 Surface Wate		END (24	400hr) 112 Other	b	
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" (0.38)	4" 5" (1.02	e" (1.50)	8" (2.60)	Other ()	
DEPTH TO BOTTOM (feet) = 19.1^{-1} DEPTH TO WATER (feet) = 9.3^{-1} WATER COLUMN HEIGHT (feet) = 10.3^{-1}	6	CALCU	G VOLUME (gal) = JLATED PURGE (g AL PURGE (gal) =	-		
	FIELD M	IEASUREMENTS				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TEMP. (degrees C) 22.9 22.5 22.1	CONDUCTIVITY (umhos/cm) 2521 2531 2532	pH (units) 6.70 6.75 6.75	COLOR (visual) BRN BRN UT. BRN	TURBIDITY (NTU) MED Law MED Law	
SAMPLE DEPTH TO WATER: 9.04	SAMPLE	E INFORMATION	SAMPLE TURB	IDITY: ME	DLOW	
80% RECHARGE: 🗡 YES NO	ANAL	LYSES: BTEX, TPHg, 5	5 Oxygenates (EPA	8260B)		
ODOR: NA SAMPLE VES	SSEL / PRESERVA	TIVE: HCL			24	
PURGING EQUIPMENT Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC) X Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Other: Pump Depth:		SAMPLING EQUIPMENT Bladder Pump Bailer (Teflon) Centrifugal Pump X Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Other:				
WELL INTEGRITY: GOOD REMARKS: D.O 0.94			LOCK#: Y	IES		
SIGNATURE: 75. A. 75	<u> </u>				Page <u>3</u> of <u>5</u>	

Stantec Consulting Corp.							
WATER SAMPLE FIELD DATA SHEET							
PROJECT #: 7-Eleven Store #32266 CLIENT NAME: 7-Eleven, Inc. LOCATION: 1339 North Vasco Road, Liverman	PURGED BY:	Brian BranscumWELL I.D.:MW- 5Brian BranscumSAMPLE I.D.:MW- 5QA SAMPLES:None			5		
DATE PURGED 7/18/13 DATE SAMPLED 7/18/13 SAMPLE TYPE: Groundwater X	START (2400hr) SAMPLE TIME (2 Surface Wate		END (24	400hr)	56		
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" (0.38)	4" 5" (1.0)	2) 6" (1.50)	8" (2.60)	Other		
DEPTH TO BOTTOM (feet) = 19.4 DEPTH TO WATER (feet) = 9.1 WATER COLUMN HEIGHT (feet) = 10.3	3	CALC	IG VOLUME (gal) = ULATED PURGE (g AL PURGE (gal) =				
	FIELD N	MEASUREMENTS					
DATE TIME VOLUME (2400hr) (gal) 1150 1.7 1153 3.4 1156 5.1 		CONDUCTIVITY (umhos/cm) 2420 2103 1952	pH (units) 7.02 7.00 6.99	COLOR (visual) BRN BRN	TURBIDITY (NTU) MED MED		
SAMPLE DEPTH TO WATER: 9.30	<u>></u>		SAMPLE TURB	IDITY:	NED		
	ANAI SSEL / PRESERVA	LYSES: <u>BTEX, TPHg,</u> TIVE: <u>HCL</u>	N1.				
PURGING EQUIPMENT Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC) X Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Other: Pump Depth:		Bladder Pum Centrifugal F Submersible Peristalic Pu Other:	Pump X Bai Pump Bai	iler (Teflon)	or X disposable) l)		
WELL INTEGRITY: GOOD		•;	LOCK#:	IES			
REMARKS: D.O 1.94		ye ita	DRAUE				
SIGNATURE: SSA.TS			D BAILED		Page 4 of 5		

Stantec Consulting Corp.						
WATER SAMPLE FIELD DATA SHEET PROJECT #: 7-Eleven Store #32266 PURGED BY: Brian Branscum WELL I.D.: MW- 4						
CLIENT NAME: 7-Eleven, Inc.	SAMPLED BY:	Brian Branscum	SAMPL		11	
LOCATION:1339 North Vasco Road, Liverr	nore, Califor		QA SAN	MPLES: No	ne	
DATE PURGED 1/18/13	START (2400hr)	1020	END (24	400hr) \O	31	
DATE SAMPLED 71813 SAMPLE TYPE: Groundwater X	SAMPLE TIME (Surface Wat		1035 ent Effluent	Other		
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" (0.38)	4" 5" (1.02	6" <u>(1.50)</u>	8" (2.60)	Other ()	
DEPTH TO BOTTOM (feet) = 19	30	CASING	G VOLUME (gal) =	1.7		
	02	CALCU	LATED PURGE (g	gal) = <u>5.1</u>		
WATER COLUMN HEIGHT (feet) =	28	ACTUA	L PURGE (gal) =	7.0	<i>e</i>	
	FIELD N	MEASUREMENTS				
DATE TIME VOLUME (2400hr) (gal) 1025 1.7 1028 3.4 1031 5.1	TEMP. (degrees C) 20.5 20.8 21.0	CONDUCTIVITY (umhos/cm) 1391 1495 1433	pH (units) 6.88 6.84 4.85	COLOR (visual) BRN LT.BRN LT.BRN	TURBIDITY (NTU) <u>MEDION</u> LON	
SAMPLE DEPTH TO WATER: 9.	IT SAMPLI	E INFORMATION	SAMPLE TURB	BIDITY:	low	
80% RECHARGE: 🔀 YES NO	ANAI	LYSES: BTEX, TPHg, 5	Oxygenates (EPA	8260B)		
ODOR: NA SAMPLE VE	ESSEL / PRESERVA	TIVE: HCL				
PURGING EQUIPMENT			SAMPLING EQ	UIPMENT		
Bladder Pump Bailer (T Centrifugal Pump Bailer (P X Submersible Pump Bailer (S Peristalic Pump Dedicate Other: Pump Depth:	VC) tainless Steel)	Bladder Pump Centrifugal Pu Submersible F Peristalic Pum Other:	ump XBa Pump Ba	iler (Teflon) iler (PV(iler (Stainless Stee dicated	C or X disposable) el)	
WELL INTEGRITY: GOOD			LOCK#: Y	ES		
REMARKS: D.O 1.20						
	·····					
SIGNATURE: 75: A. 82					Page of	

Stantec Consulting Corp.						
W2 PROJECT #: 7-Eleven Store #32266 CLIENT NAME: 7-Eleven, Inc. LOCATION: 1339 North Vasco Road, Livern	PURGED BY:	Brian Branscum WELL I.D.: MW- 3 Brian Branscum SAMPLE I.D.: MW- 3 QA SAMPLES: None				
DATE PURGED 7/19/13 DATE SAMPLED 7/18/13 SAMPLE TYPE: Groundwater X	START (2400hr) SAMPLE TIME (2 Surface Wate	· · · · · · · · · · · · · · · · · · ·	END (2400hr)	226		
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" (0.38)	4" <u>(0.67)</u> 5" <u>(1.02</u>	<u>6"</u> <u>8"</u> <u>(2.60)</u> <u>6"</u> <u>(2.60)</u>	Other ()		
DEPTH TO BOTTOM (feet) = 20.0 DEPTH TO WATER (feet) = 9.0 WATER COLUMN HEIGHT (feet) = 10.4	61	CALCU	G VOLUME (gal) = 1.7 $JLATED PURGE (gal) = 5.1$ $AL PURGE (gal) = 7.0$			
	FIELD N	IEASUREMENTS				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TEMP. (degrees C) 24.3 24.1 23.9	CONDUCTIVITY (umhos/cm) 1145 1192 1215	pH COLOR (units) (visual) <u>6.72</u> <u>iT.BP</u> <u>6.69</u> <u>CLR</u>			
SAMPLE DEPTH TO WATER: 9.78	SAMPLE	E INFORMATION	SAMPLE TURBIDITY:	NA		
80% RECHARGE: X YES NO ODOR: NA SAMPLE VE	ANAI SSEL / PRESERVA		5 Oxygenates (EPA 8260B)			
PURGING EQUIPMENT			SAMPLING EQUIPMENT			
Bladder Pump Bailer (Teflon) Centrifugal Pump Bailer (PVC) X Submersible Pump Bailer (Stainless Steel) Peristalic Pump Dedicated Other: Pump Depth:		Bladder Pump Centrifugal Pu Submersible I Peristalic Pun Other:	b Bailer (Teflon) ump X Bailer (Pump Bailer (Stainless			
WELL INTEGRITY: GOOP REMARKS: D.O 0.82			LOCK#: YES			
ACMANUS. D.O V. U						
SIGNATURE: 5-X-55	•			Page <u>5</u> of <u>5</u>		

Stantec

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



Laboratory Results

Danielle Manning Stantec Consulting Services Inc. 3017 Kilgore Road, Suite 100 Rancho Cordova, CA 95670

Subject : 5 Water Samples Project Name : 7-Eleven Store #32266 Project Number : 185750084.200.0410

Dear Ms. Manning,

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 and TNI 2009 standards. 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,

Troy D. Jurpen

Troy Turpen



Subject :5 Water SamplesProject Name :7-Eleven Store #32266Project Number :185750084.200.0410

Case Narrative

Tert-Butanol results for sample MW-3 may be biased slightly high and are flagged with a 'J'. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis of water samples. We consider this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 20:1.



Sample : MW-1 Matr		Matrix : \	Matrix : Water Lab Number		: 85475-01	
Sample Date :07/18/2013						
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed	
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/24/13 05:08	
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/24/13 05:08	
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/24/13 05:08	
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:08	
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	07/24/13 05:08	
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	07/24/13 05:08	



Sample : MW-2 Ma		Matrix : \	Water	Lab Number : 85	475-02
Sample Date :07/18/2013					
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/24/13 05:40
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/24/13 05:40
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/24/13 05:40
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 05:40
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	07/24/13 05:40
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	07/24/13 05:40



Sample : MW-3	ample : MW-3		Nater	Lab Number : 85	475-03
Sample Date :07/18/2013		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 1.5	1.5	ug/L	EPA 8260B	07/25/13 01:28
Toluene	< 1.5	1.5	ug/L	EPA 8260B	07/25/13 01:28
Ethylbenzene	< 1.5	1.5	ug/L	EPA 8260B	07/25/13 01:28
Total Xylenes	< 1.5	1.5	ug/L	EPA 8260B	07/25/13 01:28
Methyl-t-butyl ether (MTBE)	880	1.5	ug/L	EPA 8260B	07/25/13 01:28
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	07/25/13 01:28
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	07/25/13 01:28
Tert-amyl methyl ether (TAME)	1.7	1.5	ug/L	EPA 8260B	07/25/13 01:28
Tert-Butanol	15 J	7.0	ug/L	EPA 8260B	07/25/13 01:28
Ethanol	< 15	15	ug/L	EPA 8260B	07/25/13 01:28
TPH as Gasoline	< 150	150	ug/L	EPA 8260B	07/25/13 01:28
1,2-Dichloroethane	< 1.5	1.5	ug/L	EPA 8260B	07/25/13 01:28
1,2-Dibromoethane	< 1.5	1.5	ug/L	EPA 8260B	07/25/13 01:28
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	07/25/13 01:28
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	07/25/13 01:28



Sample : MW-4	Sample : MW-4 Ma		Nater	Lab Number : 85	475-04
Sample Date :07/18/2013					
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
Methyl-t-butyl ether (MTBE)	150	0.50	ug/L	EPA 8260B	07/24/13 06:11
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/24/13 06:11
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/24/13 06:11
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/24/13 06:11
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/24/13 06:11
1,2-Dichloroethane-d4 (Surr)	99.0		% Recovery	EPA 8260B	07/24/13 06:11
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	07/24/13 06:11



ample : MW-5 Matrix		Nater	475-05	
Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 5.0	5.0	ug/L	EPA 8260B	07/24/13 22:12
< 5.0	5.0	ug/L	EPA 8260B	07/24/13 22:12
< 50	50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
< 0.50	0.50	ug/L	EPA 8260B	07/24/13 22:12
102		% Recovery	EPA 8260B	07/24/13 22:12
103		% Recovery	EPA 8260B	07/24/13 22:12
	Value < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 5.0 < 5.0 < 5.0 < 0.50 < 1.50 < 0.50 <	Measured Value Method Reporting Limit < 0.50	Measured Value Reporting Limit Units < 0.50	Method Reporting Limit Analysis Method < 0.50

QC Report : Method Blank Data

Project Name : 7-Eleven Store #32266

Project Number : **185750084.200.0410**

	Measured	Method Reporting	g	Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/23/2013
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/23/2013
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/23/2013
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/23/2013
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	07/23/2013
Toluene - d8 (Surr)	99.5		%	EPA 8260B	07/23/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/24/2013
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/24/2013
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/24/2013
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/24/2013
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	07/24/2013
Toluene - d8 (Surr)	103		%	EPA 8260B	07/24/2013

Report Number : 85475 Date : 07/26/2013

		Method			
	Measured	Reporti	ng	Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed

Project Number : 185750084.200.0410

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e ed Units	Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dibromoeth	ane													
	85489-03	<0.50	40.3	40.3	41.9	42.3	ug/L	EPA 8260B	7/23/13	104	105	0.944	70.0-130	25
1,2-Dichloroeth	ane													
	85489-03	<0.50	40.0	40.0	41.4	42.1	ug/L	EPA 8260B	7/23/13	103	105	1.74	70.0-130	25
Benzene														
	85489-03	<0.50	40.0	40.0	40.8	40.6	ug/L	EPA 8260B	7/23/13	102	102	0.333	70.0-130	25
Diisopropyl eth	er													
	85489-03	<0.50	39.3	39.3	42.1	42.2	ug/L	EPA 8260B	7/23/13	107	107	0.152	70.0-130	25
Ethanol														
	85489-03	<5.0	99.3	99.3	111	115	ug/L	EPA 8260B	7/23/13	112	116	3.53	55.0-150	25
Ethyl-tert-butyl														
—	85489-03	<0.50	40.1	40.1	43.4	44.0	ug/L	EPA 8260B	7/23/13	108	110	1.25	70.0-130	25
Ethylbenzene														
	85489-03	<0.50	40.0	40.0	41.0	40.3	ug/L	EPA 8260B	7/23/13	102	101	1.62	70.0-130	25
Methyl-t-butyl e														
	85489-03	<0.50	39.9	39.9	41.9	42.3	ug/L	EPA 8260B	7/23/13	105	106	0.817	70.0-130	25
P + M Xylene												~ ~ /		~-
Tart Dutanal	85489-03	<0.50	40.0	40.0	41.3	40.5	ug/L	EPA 8260B	7/23/13	103	101	2.01	70.0-130	25
Tert-Butanol	05400.00	o =			0.1.0	044			7/00/46	101	404	0 454	70.0.400	05
	85489-03	9.5	202	202	213	214	ug/L	EPA 8260B	7/23/13	101	101	0.454	70.0-130	25

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KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Project Number : **185750084.200.0410**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e d Units	Analysis Method	Date Analyzed	Percent		e Relative Percent Diff.		Relative Percent Diff. Limit
Tert-amyl-meth	yl ether													
	85489-03	<0.50	40.3	40.3	43.3	42.4	ug/L	EPA 8260B	7/23/13	107	105	1.96	70.0-130	25
Toluene														
	85489-03	<0.50	40.0	40.0	41.0	40.9	ug/L	EPA 8260B	7/23/13	102	102	0.128	70.0-130	25
1,2-Dibromoeth	ane													
	85477-02	<0.50	40.3	40.3	42.4	42.4	ug/L	EPA 8260B	7/24/13	105	105	0.0423	70.0-130	25
1,2-Dichloroeth														
_	85477-02	<0.50	40.0	40.0	47.4	47.6	ug/L	EPA 8260B	7/24/13	118	119	0.243	70.0-130	25
Benzene														
	85477-02	10	40.0	40.0	48.1	47.3	ug/L	EPA 8260B	7/24/13	94.9	92.8	2.25	70.0-130	25
Diisopropyl ethe														
_	85477-02	<0.50	39.3	39.3	41.7	40.5	ug/L	EPA 8260B	7/24/13	106	103	2.91	70.0-130	25
Ethanol														
	85477-02	<5.0	99.3	99.3	103	106	ug/L	EPA 8260B	7/24/13	104	106	2.20	55.0-150	25
Ethyl-tert-butyl														
	85477-02	<0.50	40.1	40.1	43.0	42.3	ug/L	EPA 8260B	7/24/13	107	105	1.76	70.0-130	25
Ethylbenzene														
	85477-02	5.5	40.0	40.0	46.8	46.2	ug/L	EPA 8260B	7/24/13	103	102	1.40	70.0-130	25

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KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Project Number : **185750084.200.0410**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e ed Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl e	ether													
	85477-02	0.57	39.9	39.9	44.4	44.2	ug/L	EPA 8260B	7/24/13	110	109	0.314	70.0-130	25
P + M Xylene														
	85477-02	0.70	40.0	40.0	40.4	39.8	ug/L	EPA 8260B	7/24/13	99.3	97.7	1.66	70.0-130	25
Tert-Butanol							-							
	85477-02	77	202	202	274	282	ug/L	EPA 8260B	7/24/13	98.2	102	3.82	70.0-130	25
Tert-amyl-meth	yl ether						-							
	85477-02	<0.50	40.3	40.3	42.8	43.3	ug/L	EPA 8260B	7/24/13	106	107	1.16	70.0-130	25
Toluene							-							
	85477-02	<0.50	40.0	40.0	40.5	39.8	ug/L	EPA 8260B	7/24/13	101	99.5	1.69	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Project Number : **185750084.200.0410**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2-Dibromoethane	40.3	ug/L	EPA 8260B	7/23/13	99.6	70.0-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	7/23/13	98.0	70.0-130
Benzene	40.0	ug/L	EPA 8260B	7/23/13	97.3	70.0-130
Diisopropyl ether	39.3	ug/L	EPA 8260B	7/23/13	100	70.0-130
Ethanol	99.3	ug/L	EPA 8260B	7/23/13	117	55.0-150
Ethyl-tert-butyl ether	40.1	ug/L	EPA 8260B	7/23/13	102	70.0-130
Ethylbenzene	40.0	ug/L	EPA 8260B	7/23/13	99.0	70.0-130
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	7/23/13	99.1	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	7/23/13	98.9	70.0-130
TPH as Gasoline	492	ug/L	EPA 8260B	7/23/13	109	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	7/23/13	97.1	70.0-130
Tert-amyl-methyl ether	40.3	ug/L	EPA 8260B	7/23/13	100	70.0-130
Toluene	40.0	ug/L	EPA 8260B	7/23/13	97.8	70.0-130
1,2-Dibromoethane	40.5	ug/L	EPA 8260B	7/24/13	104	70.0-130
1,2-Dichloroethane	40.2	ug/L	EPA 8260B	7/24/13	116	70.0-130
Benzene	40.2	ug/L	EPA 8260B	7/24/13	93.8	70.0-130
Diisopropyl ether	39.5	ug/L	EPA 8260B	7/24/13	103	70.0-130
Ethanol	99.8	ug/L	EPA 8260B	7/24/13	102	55.0-150
Ethyl-tert-butyl ether	40.3	ug/L	EPA 8260B	7/24/13	104	70.0-130
Ethylbenzene	40.2	ug/L	EPA 8260B	7/24/13	99.0	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	7/24/13	108	70.0-130
P + M Xylene	40.2	ug/L	EPA 8260B	7/24/13	96.7	70.0-130

Project Number : 185750084.200.0410

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH as Gasoline	490	ug/L	EPA 8260B	7/24/13	98.6	70.0-130
Tert-Butanol	202	ug/L	EPA 8260B	7/24/13	99.7	70.0-130
Tert-amyl-methyl ether	40.5	ug/L	EPA 8260B	7/24/13	107	70.0-130
Toluene	40.2	ug/L	EPA 8260B	7/24/13	98.5	70.0-130

				St	an	tec	•	Ch	ain	-of	Cu	sto			of Cus cord			35475	
Address:		mento ore Road, S ordova, C/									_	D Job		itiona ie:	al docun 7-Ele 1339	nents ar ven Sto	ore #32266 /asco Road	and are part of this Record.	
Project #	185750084	Ļ	Task #	200.0410										F	Analysis	Reque	st		
	Kiff Analy	tical	g			8260		418.1		(6	ŝ	ics			Szub				S
Turnaround Tin	ne <u>St</u>	andard				EPA	(ylnC (PH 4	iles	C/WS	olatile	NS)		- E	608				taine
Sampler's Nam Sampler's Sign		Branscum			HCI-preserved	TPHg/BTEX -	TPHd (Diesel Only) 8015 (modified)	ТРН 418.1/МТРН	Aromatic Volatiles 602/8020	Volatile rganics 624/8240 (g=GC/MS)	ogenated V 8010	Semi-volatile Organics 625/8270 (GC/MS)	5 Oxygenates EPA 8260B		1,2-DCH) E			Comments/	ber of Containers
Sample	D	Date	Time	Matrix	Ρ̈́	Ē	191 801 191	<u>t</u>	Aror 602	Vola 624	Halo 601/	Ser 625/	5 O) EPA	Chl. 826(25			Instructions	Number
MW-1		07/18/13	1105	Water	3	X							X		\times				3
MW-2		07/18/13	1130	Water	3	X							X		×				3
MW-3	•• •••••	07/18/13	1230	Water	3	X							X		.×				3
MW-4		07/18/13	1035	Water	3	x							Χ		\times				3
MW-5		07/18/13	1200	Water	3	X							X		\times				3
Special Instruction 5 Oxygenates - Global ID #T100 email EDD to date deborah.lichten	MtBE, EtE 000001067 anielle.ma	BE, DIPE, T	antec.co		Się Pri Co	gn int ompa	<u>Bria</u>		rans ntec		4/13		Sigi Prin	n it npan	d by:	Date		Sample Receipt Total no. of containers Chain of custody seals Rec'd in good condition/colo Conforms to record	s: 1:
Email lab report deborah.lichten iennifer.tanner@ danielle.mannir	to: berger@s @stantec.c	tantec.cor com /			Sig Pri	gn .		d by:		2	<u> </u>		Sigr Prin		Jen Tim	TJB othy B	pine hiel 110 722 13	Client: Stantec Client Contact: Danielle M Client Phone: (916) 861-0	

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Analytical LLC		S	AMPLE R	ECEIPT C	HECH	KLIST		SRG	s#: 85475
Sample Receipt	Initials/Date:	TJB072213	Storage Time	: 1555	Sample	e Login	Initials/	Date: Mar	3/072213
TAT: 🕅 Standar	rd 🗌 Rus	h 🗌 Split	None	Method of R	eceipt:	Cour	ier 🗌 (Over-the-coun	ter 🗌 Shipped
Temp °C 0.8	□ N/A The	rm ID IR-1 T	ime 1547	Coolant pres	sent	Yes	No	U Water	Temp Excursion
For Shipments Only	: Cooler Rec	eipt Initials/Date/	Time:			Custody	Seals	□ N/A □	Intact 🔲 Broken

Chain-of-Custody:	Yes	No	Documented on	coç	Labels		Discrepancies:	
Is COC present?	X		Sample ID	,	\checkmark			
Is COC signed by relinquisher?	X		Project ID					
Is COC dated by relinquisher?	X		Sample Date	\checkmark	N			
Is the sampler's name on the COC?	\times		Sample Time	\checkmark	J			
Are there analyses or hold for all samples?	X		Does COC match	project h	nistory?	🛛 N/A	Yes No	

Samples:		N/A	Yes	No
Are sample custody	seals intact?	X		
Are sample containe	ers intact?		X	
Is preservation docu	imented?		X	
In-house Analysis:		N/A	Yes	No
Are preservatives ac	cceptable?		X	
Are samples within I	nolding time?		X	
Are sample containe	er types correct?		X	
Is there adequate sa	ample volume?		\times	
Receipt Details:				
Matrix	Container Type	# of C	ontaine	ers
WA	NOA	15		

)A	12		
			CS Required:
		Proceed With Analysis: YES NO Client Communication:	Init/Date: