

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



By Alameda County Environmental Health at 11:30 am, Oct 22, 2014

October 20, 2014

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 2014 7-Eleven Store #32266 1339 North Vasco Road Livermore, CA 94551 Stantec Project #:185750084.300.0506

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) 384-0706.

Sincerely, Stantec Consulting Services Inc.

an

Danielle Manning Associate Scientist Project Manager

Amanda Magee, P.C. Associate Geologist SIONAL GEOLOGIS PROF MANDA MAGEE No. 8908 FIF OF CALIFORNIT

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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. Stantec 3017 Kilgore Road, Suite 100, Rancho Cordova, CA 95670 (916) 861-0400

Quarterly Groundwater Monitoring Report Third Quarter 2014

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

Stantec Project No.: 185750084.300.0506

Submitted to:

Mr. Jerry Wickham Alameda County Environmental Health Services **Environmental Protection** 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502 (via Alameda County Environmental Health Services ftp site)

Prepared on behalf of:

7-Eleven, Inc. Mr. Jose Rios P.O. Box 711 Dallas, TX 75221-0711

October 20, 2014



DATE: <u>October 20, 2014</u>

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.:	185750084.300.0506
Primary Agency:	Alameda County Environmental Health Services (ACEHS)

WORK PERFORMED THIS PERIOD [Third Quarter 2014]

- 1. Conducted quarterly groundwater monitoring and sampling on July 28, 2014, and generated the quarterly report.
- 2. Submitted a Site Closure Request to ACEHS on July 18, 2014.

WORK PROPOSED FOR NEXT PERIOD [Fourth Quarter 2014]

1. Begin well destruction activities after the public participation period ends on October 14, 2014.

DISCUSSION

The site is an active 7-Eleven convenience store and retail gasoline fueling facility with one 15,000-gallon 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:

Frequency of Monitoring and Sampling:

Are Liquid Phase Hydrocarbons Present On-site:

Water Supply Wells within a 2,000-foot radius and their Respective Direction:

Current Remediation Techniques:

Permits for Discharge:

Historic Range in Depth to Water (Measured Below Top of Casing):

Groundwater Monitoring
Quarterly, Five wells- MW-1 through MW-5
No
Three municipal water supply wells (see Stantec work plan and results survey September, 2010)
None
None
MW-1, 7.88 to 8.51 feet



October 20, 2014 7-Eleven Store #32266, 1339 North Vasco Road, Livermore, California Page 2 of 7

Reference: Quarterly Groundwater Monitoring Report, Third Quarter 2014

Current Quarter Monitoring Data	(See Figure 2 and Table 1)
Wells Monitored and Sampled:	Five wells - MW-1 through MW-5
Dissolved Oxygen Concentrations Measured In:	Five wells - MW-1 through MW-5
Depth to Groundwater (DTW) (Measured Below Top of Casing):	8.95 to 10.11 feet
Average Change in Groundwater Elevation Since Last Event:	0.68 foot decrease
Groundwater Flow Direction and Gradient:	West-southwest @ 0.006 foot per foot (Figure 2)
Current Quarter Analytical Data	(See Figure 3 and Table 1)
Maximum TPHg Concentrations:	Not Detected, <50 to <100 µg/L
Maximum Benzene Concentrations:	Not Detected, <0.50 to <1.0 μ g/L
Maximum MtBE Concentrations:	MW-3, 700 µg/L
Maximum TBA Concentrations:	MW-3, 6.8 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 27 soil samples were collected during the UST replacement activities as follows:

- Five soil samples from the UST excavation,
- Six soil samples from 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.



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Reference: Quarterly Groundwater Monitoring Report, Third Quarter 2014

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 and BT-2) collected from 20,000-gallon Baker Tanks storing pumped UST excavation water.

MtBE was detected at 180 micrograms per liter (µg/L) and benzene was reported at 25 µg/L in UST excavation water sample W1 (Table 2). TPHg was detected at 3,400 µg/L in UST excavation water sample W1. TPHg was not detected in either Baker Tank sample (BT-1 or BT-2). Total xylenes were reported in sample BT-1 at 0.70 µg/L. MtBE was detected in both samples at concentrations of 340 µg/L (BT-1) and 400 µg/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 and the California Regional Water Quality Control Board (CRWQCB).

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.



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Reference: Quarterly Groundwater Monitoring Report, Third Quarter 2014

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 reported from 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 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.

Between February 23 and 24, 2011, Stantec supervised WDC during 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.



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Reference: Quarterly Groundwater Monitoring Report, Third Quarter 2014

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 µg/L and 350 µg/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 a 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 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. In a letter dated August 19, 2013, the ACEHS requested that MW-5 be included in the quarterly groundwater monitoring schedule, and requested analysis of ethylene dibromide (EDB) and 1,2-dichloroethane (1,2-DCA) during the next sampling event. These analyses were conducted during the third quarter 2013 sampling event. EDB and 1,2-DCA were not detected at concentrations above laboratory reporting limits; as such, groundwater analyses for EDB and 1,2-DCA were discontinued, per the ACEHS August 19, 2013 letter.

A Site Closure Request dated July 18, 2014 was submitted to ACEHS. In a letter dated August 11, 2014, the ACEHS approved the cessations of groundwater monitoring and sampling, and initiated the public notification of pending case closure of the site.



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Reference: Quarterly Groundwater Monitoring Report, Third Quarter 2014

MONITORING AND SAMPLING PROCEDURES

The depth to water was measured in monitoring wells MW-1 through MW-5 to within 0.01 foot bgs from the top of casing 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, TAME, and ethanol by EPA Method 8260B. The certified laboratory analytical report and COC documentation are presented as Attachment B.

MtBE was not detected above laboratory reporting limits in groundwater samples collected this quarter, with the exception of the samples collected from MW-3 and MW-4, which contained MtBE concentrations of 700 μ g/L and 54 μ g/L, respectively. All other constituents of concern were not reported above laboratory reporting limits, with the exception of TBA and TAME, which were reported at concentrations of 6.8 μ g/L and 1.0 μ g/L, respectively, in the groundwater sample collected from MW-3.

MtBE concentrations in groundwater samples collected from monitoring wells MW-3 and MW-4 continue to show an overall decreasing trend. In addition, based on the absence of detected MtBE in groundwater samples collected from monitoring well MW-5, the downgradient extent of the dissolved MtBE plume appears to be defined. Based on the foregoing, the dissolved MtBE plume appears to be stable and declining.

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 purging, 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 removed from the site by Belshire Environmental (Belshire) within approximately three weeks after generation. Belshire then transports the water to DeMenno Kerdoon in Compton, California, for disposal.



October 20, 2014 7-Eleven Store #32266, 1339 North Vasco Road, Livermore, California Page 7 of 7

Reference: Quarterly Groundwater Monitoring Report, Third Quarter 2014

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.

LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of 7-Eleven, Inc., for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

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:

Debbie Lichtenberge **Environmental Technician** SOFESSIONAL GEOLOGIC

Reviewed by:

Amanda Magee, P.G Associate Geologist

Reviewed by:

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

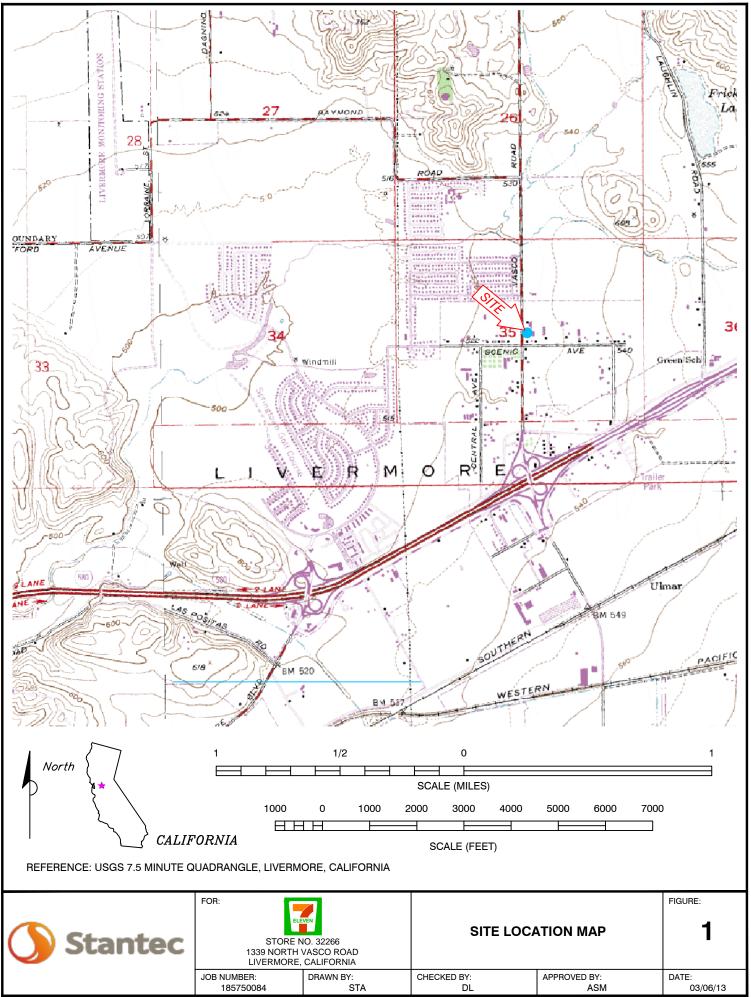
c: CRWQCB – San Francisco Bay Region (via Geotracker) Mr. Jose Rios, 7-Eleven, Inc. c/o Mr. John Wainwright, Stantec

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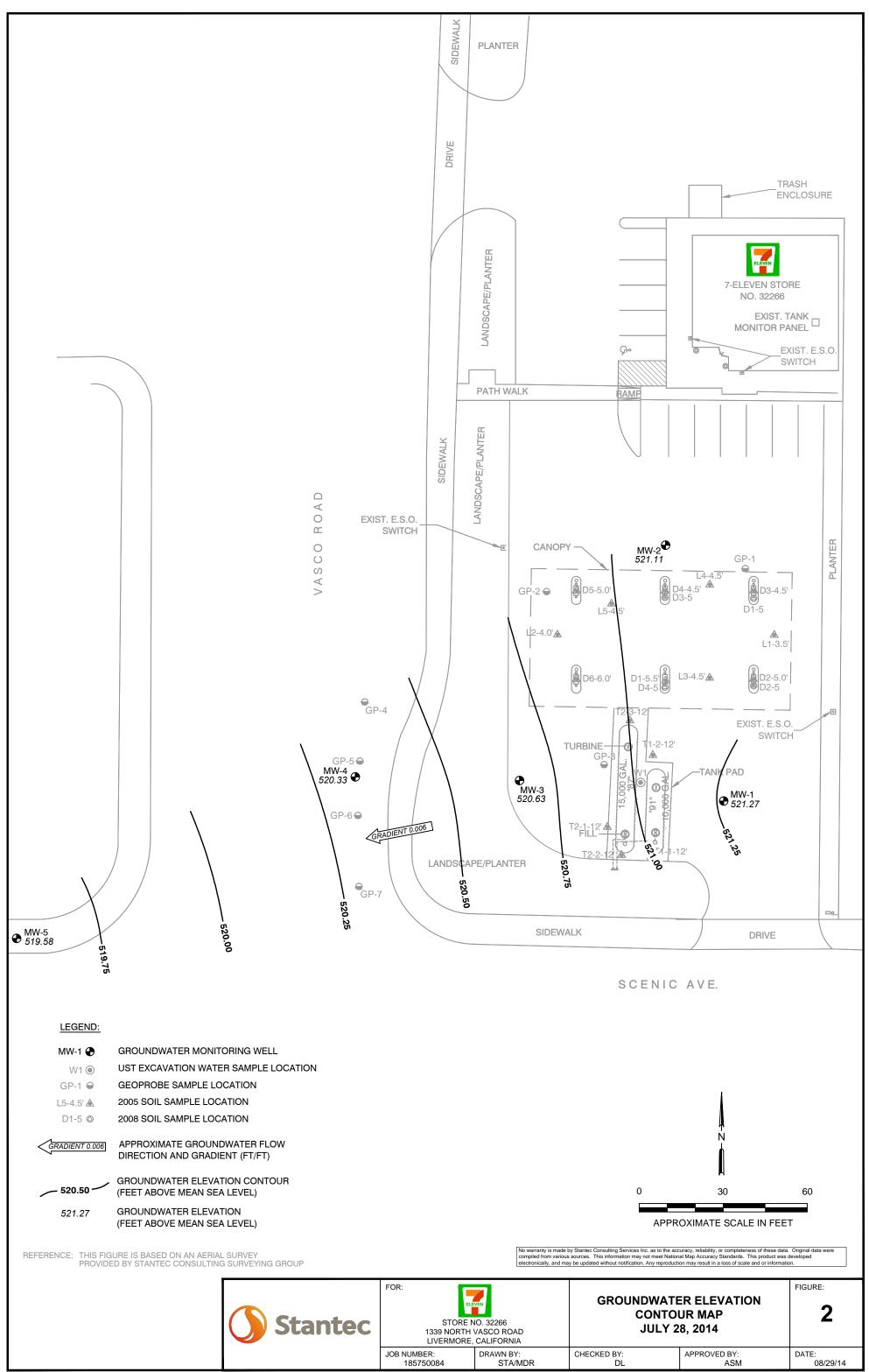
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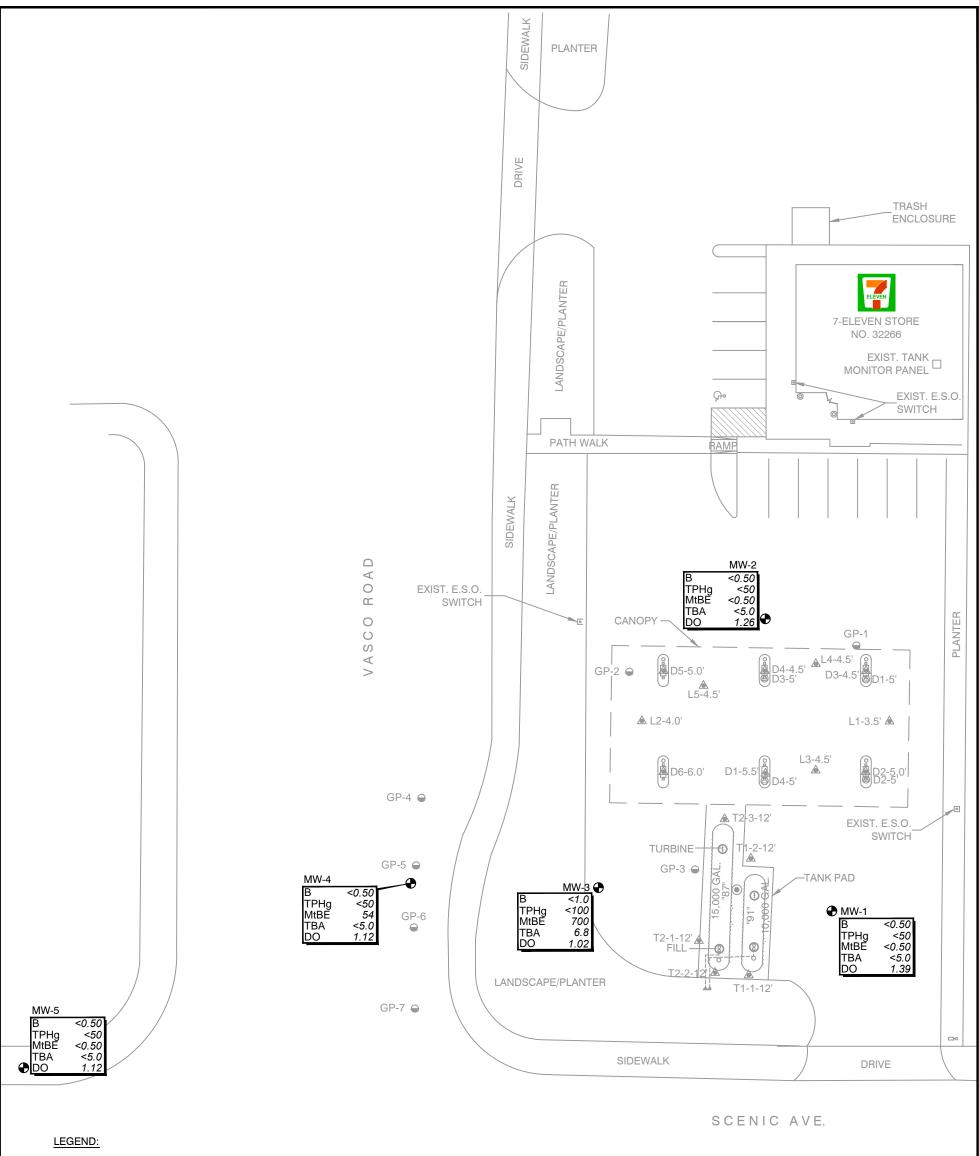
Figures



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



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GROUNDWATER MONITORING WELL

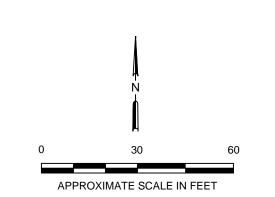
MW-1 🕀

W1 🔘	UST EXCAVATION WATER SAMPLE LOCATION
------	--------------------------------------

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

В BENZENE (µg/L)

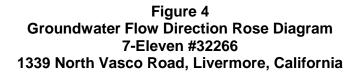
- TOTAL PETROLEUM HYDROCARBONS TPHg AS GASOLINE (µg/L)
- MtBE METHYL TERTIARY BUTYL ETHER (µg/L)
- TERT-BUTYL ALCOHOL (µg/L) TBA
- μg/L MICROGRAMS PER LITER

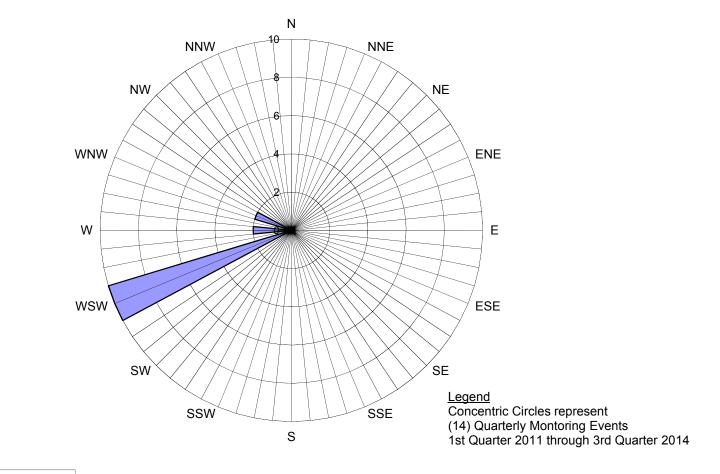


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Stantec	STORE N 1339 NORTH	IO. 32266 VASCO ROAD CALIFORNIA	GROUNDWATER CONCENTR JULY 2	ATION MAP	FIGURE:
	JOB NUMBER: 185750084	DRAWN BY: STA	CHECKED BY: DL	APPROVED BY: ASM	DATE: 08/29/14

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Groundwater Flow Direction

Tables

Table 1Third Quarter 2014 Groundwater Monitoring and Analytical Data7-Eleven Store #322661339 North Vasco RoadLivermore, California

Well ID/				Ethyl	Total									Dissolved			
Elevation	Date	Benzene	Toluene	Benzene	Xylenes	TPHg	MtBE	TBA	DIPE	EtBE	TAME	Ethanol	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)	(µg/L)		(mg/L)	(feet)	(feet)	(feet)
MW-1	07/28/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0		1.39	8.95	0.00	521.27
530.22																	
MW-2	07/28/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0		1.26	9.44	0.00	521.11
530.55																	
MW-3	07/28/14	<1.0	<1.0	<1.0	<1.0	<100	700	6.8	<1.0	<1.0	1.0	<10		1.02	10.11	0.00	520.63
530.74																	
MW-4	07/28/14	<0.50	<0.50	<0.50	<0.50	<50	54	<5.0	<0.50	<0.50	<0.50	<5.0		1.12	9.60	0.00	520.33
529.93																	
MW-5	07/28/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50	<5.0		1.12	9.69	0.00	519.58
529.27																	
Evolanation																	

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 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 2Historical Water and/or Groundwater Sample Analytical Results7-Eleven Store #322661339 North Vasco Road

Livermore, California

Sample				Ethyl	Total												Dissolved			
I.D.	Date	Benzene	Toluene	Benzene	Xylenes	TPHg	MIBE	TBA	DIPE	EfBE	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)
UST Excav	ation Grou	ndwater S	ample																	
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	nk 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 Gro	undwater S	amples																		
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 Sam	ples				-				-	-							-		
MW-1																				
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	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50					а	0.71	8.30	0.00	521.92
	10/17/11	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50						0.5	8.27	0.00	521.95
	01/20/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	< 0.50	< 0.50	< 0.50					а	0.8	8.51	0.00	521.71
	04/05/12	< 0.50	< 0.50	< 0.50	<0.50	<50	< 0.50	<5.0	< 0.50	< 0.50	< 0.50						0.44	8.22	0.00	522.00
	07/24/12	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50						0.28	8.36	0.00	521.86
	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
	10/30/13	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	< 0.50	<0.50		<5.0				1.26	8.36	0.00	521.86
	01/30/14	<0.50	< 0.50	< 0.50	< 0.50	<50	< 0.50	<5.0	< 0.50	< 0.50	< 0.50		<5.0				1.41	8.46	0.00	521.76
	04/16/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	< 0.50	<0.50		<5.0				1.19	8.31	0.00	521.91
	07/28/14	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<5.0	<0.50	<0.50	<0.50		<5.0				1.39	8.95	0.00	521.27

Table 2 Historical Water and/or Groundwater Sample Analytical Results 7-Eleven Store #32266

1339 North Vasco Road Livermore, California

Sample Ethvl Total Dissolved LD. Date Benzene Toluene Benzene **Xylenes** TPHa MIBE TBA DIPE ETBE TAME Methanol Ethanol 1.2-DCA EDB Notes Oxygen DTW SPT WTE (ug/L)(TOC) (µg/L) (mg/L) (feet) (feet) (feet) MW-2 < 0.50 530.55 03/16/11 < 0.50 < 0.50 < 0.50 < 0.50 <50 < 5.0 < 0.50 < 0.50 < 0.50 8.31 0.00 522.24 1.63 ---___ ------05/26/11 < 0.50 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 0.50 < 0.50 < 0.50 8.37 522.18 < 5.0 0.46 0.00 ------------8.82 08/09/11 < 0.50 < 0.50 < 0.50 < 0.50 <50 < 0.50 <5.0 < 0.50 < 0.50 < 0.50 521.73 --а 0.60 0.00 ___ ___ ---< 0.50 < 0.50 < 0.50 521.81 10/17/11 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 ---___ ------1.2 8.74 0.00 0.00 01/20/12 < 0.50 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 < 0.50 < 0.50 0.7 8.96 521.59 ---___ -----a 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 ---___ ------09/21/12 8.83 0.00 521.72 ---------___ ___ ___ ---------------___ ---------10/25/12 < 0.50 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 < 0.50 < 0.50 0.76 8.74 0.00 521.81 ___ ___ ___ 01/16/13 < 0.50 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 < 0.50 < 0.50 0.78 8.71 0.00 521.84 ---___ ---< 0.50 <0.50 < 0.50 <50 < 0.50 <5.0 < 0.50 1.04 0.00 521.77 04/11/13 < 0.50 < 0.50 < 0.50 8.78 ---___ ------07/18/13 < 0.50 < 0.50 <0.50 0.94 521.69 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 --< 5.0 < 0.50 < 0.50 8.86 0.00 10/30/13 < 0.50 521.77 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 < 0.50 < 0.50 < 5.0 1.07 8.78 0.00 ---8.89 01/30/14 < 0.50 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 < 0.50 < 0.50 < 5.0 1.35 0.00 521.66 ___ ------04/16/14 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 < 0.50 < 0.50 1.28 8.71 521.84 < 0.50 < 5.0 0.00 ---< 0.50 < 0.50 07/28/14 < 0.50 < 0.50 < 0.50 < 0.50 <50 < 0.50 < 5.0 < 0.50 < 5.0 1.26 9.44 0.00 521.11 ___ ------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 0.42 9.36 521.38 2.8 0.00 ------------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 0.47 9.44 521.30 <2.5 3.3 0.00 -----b ------< 0.50 50 < 0.50 < 0.50 0.36 521.09 07/24/12 < 0.50 < 0.50 < 0.50 <50 2,000 3.9 b 9.65 0.00 ---___ ___ ___ 32 09/21/12 <1.5 <1.5 <1.5 <1.5 <150 760 <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 2.4 0.73 9.23 0.00 521.51 <1.5 b ___ ___ ------04/11/13 <2.5 <2.5 1,700 27 521.30 <2.5 <2.5 <250 <2.5 <2.5 <2.5 --b 0.81 9.44 0.00 ___ ------521.13 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 10/30/13 < 0.90 < 0.90 < 0.90 < 0.90 <90 410 12 < 0.90 < 0.90 < 0.90 < 9.0 b 1.05 9.47 0.00 521.27 ---___ ---01/30/14 < 0.90 < 0.90 < 0.90 < 0.90 <90 450 15 < 0.90 < 0.90 < 0.90 < 9.0 b 1.17 9.42 0.00 521.32 ---___ ---04/16/14 < 0.90 < 0.90 < 0.90 < 0.90 <90 1,000 17 < 0.90 < 0.90 1.7 --< 9.0 0.97 9.43 0.00 521.31 ---___ 07/28/14 <1.0 <1.0 <1.0 <1.0 <100 700 6.8 <1.0 <1.0 1.0 <10 1.02 10.11 0.00 520.63 ---------

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	MIBE	TBA	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-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
	10/30/13	<0.50	<0.50	<0.50	<0.50	<50	58	<5.0	<0.50	<0.50	<0.50		<5.0				0.98	8.99	0.00	520.94
	01/30/14	< 0.50	<0.50	<0.50	<0.50	<50	49	<5.0	<0.50	<0.50	<0.50		<5.0				1.37	9.05	0.00	520.88
	04/16/14	<0.50	<0.50	<0.50	<0.50	<50	66	<5.0	<0.50	<0.50	<0.50		<5.0				1.03	8.93	0.00	521.00
	07/28/14	<0.50	<0.50	<0.50	<0.50	<50	54	<5.0	<0.50	<0.50	<0.50		<5.0				1.12	9.60	0.00	520.33
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
527.27	10/30/13	<0.50 <0.50	<0.30 <0.50	<0.30 <0.50	<0.30 <0.50	<50	< 0.50	<5.0	< 0.50	<0.50	<0.50		<5.0 <5.0	<0.50	~0.50		0.94	9.10	0.00	520.14 520.17
	01/30/14	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<50	< 0.50	<5.0	< 0.50	<0.50	<0.50		<5.0 <5.0				1.32	9.17	0.00	520.17 520.10
	04/16/14	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<50	< 0.50	<5.0	< 0.50	<0.50	<0.50		<5.0 <5.0				1.48	9.02	0.00	520.10 520.25
	07/28/14	<0.50	<0.50	<0.50	<0.50 <0.50	<50	< 0.50	<5.0	< 0.50	<0.50	<0.50		<5.0 <5.0				1.12	9.69	0.00	519.58
	07720714	-0.00	-0.00	-0.00	-0.00	-00	-0.00	-0.0	-0.00	-0.00	-0.00		-0.0				1.12	7.07	0.00	517.00
Explanation:		1	1	<u> </u>	1	1	1		1			1	1			1				<u> </u>
TPHg = Total p	BE, DIPE, ETBE, T etroleum hydro tertiary butyl et opyl ether	carbons as g			EtBE = Ethyl te TAME = Tertio TBA = Tert-bu EDB = 1,2 Dib	iry-amyl me utyl alcohol	ethyl ether I		1,2-DCA = EtOH = Eth TOC = Top UST = Unde	anol of casing e	elevation i	n feet above m k	iean sea leve	əl		mg/L = mil < = Not de	rograms per Lite ligrams per liter tected above l mpled/not mec	aboratory i		mit

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, California

		Boring	Well	Scr	een	Screen	
Well	Drill	Depth	Diameter	Тор	Bottom	Length	Comments
I.D.	Date	(feet bgs)	(inches)	(feet bgs)	(feet bgs)	(feet)	
Soil Borings							
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
Explanation							
bgs = Below g	ground surface	9					
= Data Not	Available/No	t Applicable					

Table 4Groundwater Gradient and Flow Direction7-Eleven Store # 32266

1339 North Vasco Road Livermore, California

		Groundwater	Groundwater Flow Direction															
Date	DTW	Gradient																
	(ft bgs)	(feet per foot)	Ν	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
03/16/11	8.07	0.008												1				
05/26/11	7.88	0.010												1				
08/09/11	8.30	0.008													1			
10/17/11	8.27	0.008												1				
01/20/12	8.51	0.009													1			
04/05/12	8.22	0.010														1		
		0.012														1		
		0.007												1				
		0.005												1				
		0.006												1				
		0.006												1				
01/30/14	8.46	0.006												1				
04/16/14	8.31	0.007												1				
07/28/14	8.95	0.006												1				
	0.25	0.000																
_			0	0	0	0	0	0	0	0	U	0	U	10	2	2	U	0
	8.95	0.012										I						
<u>on</u>																		
	-		sured fr	om TOC														
of Events	14	Events																
	03/16/11 05/26/11 08/09/11 10/17/11 01/20/12 04/05/12 07/24/12 10/25/12 04/11/13 07/18/13 10/30/13 01/30/14 04/16/14 07/28/14 10/25/12 10/30/13 01/30/14 04/16/14 07/28/14 10/25/12 10/30/13 10/30/13 10/30/14 04/16/14 07/28/14 10/25/12 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 10/25/12 04/11/13 07/28/14 10/30/13 01/30/14 07/28/14 10/25/12 10/25/12 04/11/13 07/18/13 10/30/13 01/30/14 07/28/14 10/25/12 04/16/14 07/28/14 10/25/12 04/16/14 07/28/14 10/25/12 04/16/14 07/28/14 10/25/12 10/25/12 04/11/13 10/30/13 01/30/14 04/16/14 07/28/14 10/25/12 10/25/	05/26/11 7.88 08/09/11 8.30 10/17/11 8.27 01/20/12 8.51 04/05/12 8.22 07/24/12 8.36 10/25/12 8.46 04/11/13 8.28 07/18/13 8.46 10/30/14 8.36 01/30/14 8.46 04/16/14 8.31 07/28/14 8.95 m Values 7.88 m Values 7.88 m Values 8.95 n of Casing (elevation i oth to water below growth to water below gr	03/16/11 8.07 0.008 05/26/11 7.88 0.010 08/09/11 8.30 0.008 10/17/11 8.27 0.008 01/20/12 8.51 0.009 04/05/12 8.22 0.010 07/24/12 8.36 0.012 10/25/12 8.46 0.007 04/11/13 8.28 0.005 07/18/13 8.46 0.006 10/30/13 8.36 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 04/16/14 8.31 0.007 07/28/14 8.95 0.008 m Values 7.88 0.005 m Values 7.88 0.005 m Values 8.95 0.012 n of Casing (elevation in feet above mean oth to water below grade surface as meas	03/16/11 8.07 0.008 05/26/11 7.88 0.010 08/09/11 8.30 0.008 10/17/11 8.27 0.008 01/20/12 8.51 0.009 04/05/12 8.22 0.010 07/24/12 8.36 0.012 10/25/12 8.46 0.007 04/11/13 8.28 0.005 07/18/13 8.46 0.006 10/30/13 8.36 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 04/16/14 8.31 0.007 07/28/14 8.95 0.008 0 m Values 7.88 0.005 m Values 8.95 0.012 n of Casing (elevation in feet above mean sea lew oth to water below grade surface as measured from the seasured from the seasure	03/16/11 8.07 0.008 05/26/11 7.88 0.010 08/09/11 8.30 0.008 10/17/11 8.27 0.008 01/20/12 8.51 0.009 04/05/12 8.22 0.010 07/24/12 8.36 0.012 10/25/12 8.46 0.007 04/11/13 8.28 0.005 07/18/13 8.46 0.006 10/30/13 8.36 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.95 0.006 07/28/14 8.95 0.012 m Values 7.88 0.005 m Values 8.95 0.012 n of Casing (elevation in feet above mean sea level) oth to water below grade surface as measured from TOC	03/16/11 8.07 0.008 05/26/11 7.88 0.010 08/09/11 8.30 0.008 10/17/11 8.27 0.008 01/20/12 8.51 0.009 04/05/12 8.22 0.010 07/24/12 8.36 0.012 10/25/12 8.46 0.007 04/11/13 8.28 0.005 07/18/13 8.46 0.006 10/30/13 8.36 0.006 01/30/14 8.46 0.007 04/16/14 8.31 0.007 07/28/14 8.95 0.008 0 0 10 7.88 0.005 0 0 10 7.88 0.005 0 0 10 7.88 0.005 0 0 10 7.88 0.012 0 0 10 0.012 0 0 0 10 0.012 0 0 0 11 8.95 0.012 0 0 12 0.012 <th>03/16/11 8.07 0.008 05/26/11 7.88 0.010 08/09/11 8.30 0.008 10/17/11 8.27 0.008 01/20/12 8.51 0.009 04/05/12 8.22 0.010 07/24/12 8.36 0.012 10/25/12 8.46 0.007 04/11/13 8.28 0.005 07/18/13 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.95 0.006 07/28/14 8.95 0.006 07/28/14 8.95 0.012 m Values 7.88 0.005 m Values 7.88 0.005 m Values 8.95 0.012 n of Casing (elevation in feet above mean sea level) oth to water below grade surface as measured from TOC</th> <th>03/16/11 8.07 0.008 05/26/11 7.88 0.010 08/09/11 8.30 0.008 10/17/11 8.27 0.008 01/20/12 8.51 0.009 04/05/12 8.22 0.010 07/24/12 8.36 0.012 10/25/12 8.46 0.007 04/11/13 8.28 0.005 07/18/13 8.46 0.006 10/30/13 8.36 0.006 01/30/14 8.46 0.006 04/16/14 8.31 0.007 07/28/14 8.95 0.006 07/28/14 8.95 0.012 0 0 0 0 07/28/14 8.95 0.012 0 0 0 0 0 0 0 0 0 0 0.012 0 0 0 0 0.012 0 0 0 0 0 0 0 0 0 0 0 0.012 0</th> <th>03/16/11 8.07 0.008 Image: constraint of the second second</th> <th>03/16/11 8.07 0.008 Image: constraint of the second second</th> <th>03/16/11 8.07 0.008 Image: constraint of the second second</th> <th>03/16/11 8.07 0.008 Image: constraint of the second second</th> <th>03/16/11 8.07 0.008 Image: constraint of the second second</th> <th>03/16/11 8.07 0.008 0</th> <th>03/16/11 8.07 0.008 1 05/26/11 7.88 0.010 1 05/26/11 8.30 0.008 1 10/17/11 8.27 0.008 1 10/120/12 8.51 0.009 1 04/05/12 8.22 0.010 1 07/24/12 8.36 0.012 1 10/25/12 8.46 0.007 1 04/11/13 8.28 0.005 1 07/18/13 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.95 0.006 0 1 1</th> <th>03/16/11 8.07 0.008 1 1 05/26/11 7.88 0.010 1 1 05/26/11 7.88 0.010 1 1 1 08/09/11 8.30 0.008 1 1 1 10/17/11 8.27 0.008 1 1 1 01/20/12 8.51 0.009 1 1 1 04/05/12 8.22 0.010 1 1 1 07/24/12 8.36 0.012 1 1 1 04/05/12 8.46 0.007 1 1 1 04/11/13 8.28 0.005 1 1 1 07/18/13 8.46 0.006 1 1 1 01/30/14 8.46 0.006 1 1 1 01/30/14 8.46 0.006 1 1 1 01/30/14 8.46 0.006 1 1 1 01/30/14 8.46 0.006 1 1 1 01/30/14</th> <th>03/16/11 8.07 0.008 1 1 1 05/26/11 7.88 0.010 1 1 1 1 05/26/11 7.88 0.008 1 1 1 1 1 05/26/11 7.88 0.008 1 <t< th=""><th>33/16/11 8.07 0.008 I</th></t<></th>	03/16/11 8.07 0.008 05/26/11 7.88 0.010 08/09/11 8.30 0.008 10/17/11 8.27 0.008 01/20/12 8.51 0.009 04/05/12 8.22 0.010 07/24/12 8.36 0.012 10/25/12 8.46 0.007 04/11/13 8.28 0.005 07/18/13 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.46 0.006 01/30/14 8.95 0.006 07/28/14 8.95 0.006 07/28/14 8.95 0.012 m Values 7.88 0.005 m Values 7.88 0.005 m Values 8.95 0.012 n of Casing (elevation in feet above mean sea level) oth to water below grade surface as measured from TOC	03/16/11 8.07 0.008 05/26/11 7.88 0.010 08/09/11 8.30 0.008 10/17/11 8.27 0.008 01/20/12 8.51 0.009 04/05/12 8.22 0.010 07/24/12 8.36 0.012 10/25/12 8.46 0.007 04/11/13 8.28 0.005 07/18/13 8.46 0.006 10/30/13 8.36 0.006 01/30/14 8.46 0.006 04/16/14 8.31 0.007 07/28/14 8.95 0.006 07/28/14 8.95 0.012 0 0 0 0 07/28/14 8.95 0.012 0 0 0 0 0 0 0 0 0 0 0.012 0 0 0 0 0.012 0 0 0 0 0 0 0 0 0 0 0 0.012 0	03/16/11 8.07 0.008 Image: constraint of the second	03/16/11 8.07 0.008 Image: constraint of the second	03/16/11 8.07 0.008 Image: constraint of the second	03/16/11 8.07 0.008 Image: constraint of the second	03/16/11 8.07 0.008 Image: constraint of the second	03/16/11 8.07 0.008 0	03/16/11 8.07 0.008 1 05/26/11 7.88 0.010 1 05/26/11 8.30 0.008 1 10/17/11 8.27 0.008 1 10/120/12 8.51 0.009 1 04/05/12 8.22 0.010 1 07/24/12 8.36 0.012 1 10/25/12 8.46 0.007 1 04/11/13 8.28 0.005 1 07/18/13 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.46 0.006 1 01/30/14 8.95 0.006 0 1 1	03/16/11 8.07 0.008 1 1 05/26/11 7.88 0.010 1 1 05/26/11 7.88 0.010 1 1 1 08/09/11 8.30 0.008 1 1 1 10/17/11 8.27 0.008 1 1 1 01/20/12 8.51 0.009 1 1 1 04/05/12 8.22 0.010 1 1 1 07/24/12 8.36 0.012 1 1 1 04/05/12 8.46 0.007 1 1 1 04/11/13 8.28 0.005 1 1 1 07/18/13 8.46 0.006 1 1 1 01/30/14 8.46 0.006 1 1 1 01/30/14 8.46 0.006 1 1 1 01/30/14 8.46 0.006 1 1 1 01/30/14 8.46 0.006 1 1 1 01/30/14	03/16/11 8.07 0.008 1 1 1 05/26/11 7.88 0.010 1 1 1 1 05/26/11 7.88 0.008 1 1 1 1 1 05/26/11 7.88 0.008 1 <t< th=""><th>33/16/11 8.07 0.008 I</th></t<>	33/16/11 8.07 0.008 I

Attachment A Field Notes

1			
JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	185750084.300.0700
SITE ADDRESS:	1339 North Vasco Road	START DATE:	7 28/14
	Livermore, California	DATE PREPARED:	7/24/2014
PREPARED FOR:	Brian Branscum	PREPARED BY:	Brian Branscum
	SITE VISITATI	ON REPORT	
Name(s) Brian Br	أدامات	Did you call in?	(Yes) No
Arrival Time: 1200	"Departure Time: 1530	Who did you call?	Danielle Manning
Weather Notations:		SNOW	Temperature 90's
		ENTORY	
STANTEC'	S ENVIRONMENTAL:		
Purge Wate		NEC	TOTALS:
So Concrete/Debri			Total Open Top Z
Other:	O Other:	0	
Empt		Please	take a picture of anything not clearly labeled
200 100	HEALTH AND SAFE		
ME, HASP, Hos	pital Route, Vehicle/Foot Traffic,"	Delivery Trucks, S	tips Trips Falls, Sun Protection
Hydration, Sco	pe of work, the Traffic Control	J	
1	•		
		······································	
	······································		
	DESCRIPTION OF ACTIVITI	IES ONSITE AND NOTES	5
0800-1200-7	nucle inspection, drove to site	. (Heavy forfic on	580 west 2 hour delay).
1200 - 1230 - To	ilgate meeting, started pagenne	orle deconed is cal	. equipment.
		- mw-4, opened's qu	and posite wells
	vened, guaged, purged & sampled mi		
210 15-10 00	erres, ywages, purges & sumples mil	1	
1540-1500 - Pu	rged then sampled wells guager	d.	1
100-1510-Ke	leased purge 420 from traffic to	orate 55-gal. c	trums.
520-1530 - Ya	ded up equipment, finished pape	muork.	
1530-1700 - Dr	ove home.		
		· · · · · · · · · · · · · · · · · · ·	

(9⁻)

JOB NAME:	7-Eleven Store #32266	JOB NUMBER:	185750084.300.0700
SITE ADDRESS:	1339 North Vasco Road	START DATE:	7/28/14
	Livermore, California	DATE PREPARED:	7/24/2014
PREPARED FOR:	Brian Branscum	PREPARED BY:	Brian Branscum

GROUNDWATER GAUGING FORM

MEASURE									
WELL	CONST.	WELL	WELL	DTB	DTW	DTP/PT	D.O.	TIME	COMMENTS
I.D.	DTB	DIAM.	ELEV.		1				Please note if well needs
			тос				(mg/L)		locking cap or street box repair
MW-1	20	2"	\sum	18.75	8.95	N/A	1.39	1240	
MW-2	20	2"	\searrow	19.13	9.44	1	1.26	1245	
MW-5	20	2"		19.44	9.69	1	1.12	1300	8
MW-4	20	2"		19.34	9.60	1	1.12	1315	Traffic Control
MW-3	20	2"		20.07	10.11		1.02	1250	

Stantec Consulting Corp. WATER SAMPLE FIELD DATA SHEET						
PROJECT #: <u>7-Eleven Store #32266</u> CLIENT NAME: <u>7-Eleven, Inc.</u> LOCATION: <u>1339 North Vasco Road, Livern</u>	PURGED BY: SAMPLED BY:	Brian Branscum WELL I.D.: MW- Brian Branscum SAMPLE I.D.: MW- QA SAMPLES: None				
DATE PURGED 1/28 14 DATE SAMPLED 728 14 SAMPLE TYPE: Groundwater X	START (2400hr) SAMPLE TIME (2 Surface Wate		END (24	400hr) 3	51	
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" 4	" <u>(0.67)</u> 5" <u>(1.02</u>	2) 6" (1.50)	8" (2.60)	Other	
DEPTH TO BOTTOM (feet) = 16.74 DEPTH TO WATER (feet) = 8.95 WATER COLUMN HEIGHT (feet) = 9.86	5	CALCU	G VOLUME (gal) = JLATED PURGE (g AL PURGE (gal) =			
	FIELD M	EASUREMENTS				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TEMP. (degrees C) 21.2 26.0 25.1	CONDUCTIVITY (umhos/cm) 1875 2339 2401	pH (units) 7.12 6.91 6.91	COLOR (visual) BRN BRN BRN	TURBIDITY (NTU) <u>MEDION</u> <u>MEDION</u>	
SAMPLE DEPTH TO WATER: 9.16	SAMPLE	INFORMATION	SAMPLE TURB	IDITY: MI	EDILOW	
80% RECHARGE: 🗶 YES NO	ANAL	YSES: BTEX, TPHg, S	5 Oxygenates (EPA	8260B)		
ODOR: NA SAMPLE VE	SSEL / PRESERVAT	TIVE: <u>HCL</u>				
PURGING EQUIPMENT Bladder Pump Bailer (Topological contribution of the stress of the stres	VC) ainless Steel)	Bladder Pump Centrifugal P Submersible I Peristalic Pur Other:	ump <u>X</u> Bai Pump Bai	iler (Teflon)	C or X disposable) el)	
WELL INTEGRITY: <u>GOOD</u> REMARKS: D.O 1.39			LOCK#: <u></u>	ES		
SIGNATURE: JSAS					Page <u>/</u> of <u>5</u>	

W		onsulting Corp. E FIELD DATA S			
PROJECT #: 7-Eleven Store #32266 CLIENT NAME: 7-Eleven, Inc. LOCATION: 1339 North Vasco Road, Liverm DATE PURGED 7 28 14 DATE SAMPLED 7 28 14	PURGED BY:	Brian Branscum Brian Branscum 1400	WELL 1 SAMPL QA SAN END (2: 14 15	E I.D.: <u>MW-</u> MPLES: <u>Nor</u>	2 ne
SAMPLE TYPE: Groundwater X	Surface Wate		ent Effluent	Other	
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" (0.38)	4" <u>(0.67)</u> 5" <u>(1.02</u>	6" (1.50)	8" (2.60)	Other ()
DEPTH TO BOTTOM (feet) = 19.1 DEPTH TO WATER (feet) = 9.1 WATER COLUMN HEIGHT (feet) = 9.1	H-	CALCU	G VOLUME (gal) = JLATED PURGE (g AL PURGE (gal) =	1.0	
	FIELD M	IEASUREMENTS			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TEMP. (degrees C) 24.3 23.1 22.9	CONDUCTIVITY (umhos/cm) 2737 2735 2769	pH (units) 6-89 6-94 6-97	COLOR (visual) BRN BRN BRN	TURBIDITY (NTU) MED MED MED/LON
SAMPLE DEPTH TO WATER: 9.70	SAMPLE	EINFORMATION	SAMPLE TURE	BIDITY: ME	DLOW
80% RECHARGE: X YES NO ODOR: NA SAMPLE VE	ANAL SSEL / PRESERVA	.YSES: <u>BTEX, TPHg, s</u> TIVE: <u>HCL</u>	5 Oxygenates (EPA	8260B)	
PURGING EQUIPMENT Bladder Pump Bailer (To Centrifugal Pump Bailer (P' X Submersible Pump Bailer (St Peristalic Pump Dedicated Other: Pump Depth:	VC) ainless Steel)	Bladder Pum Centrifugal P Submersible Peristalic Pur Other:	ump X Ba Pump Ba	iler (Teflon)	C or <u>X</u> disposable) el)
WELL INTEGRITY: <u>GOOD</u> REMARKS: D.O 1.26			lock#: <u>¥</u> £	S	
SIGNATURE: SIGNATURE:		×			Page 2 of 5

		onsulting Corp.			
WATER SAMPLE FIELD DATA SHEET PROJECT #: 7-Eleven Store #32266 PURGED BY: Brian Branscum WELL I.D.: MW- 5					
CLIENT NAME: <u>7-Eleven, Inc.</u> LOCATION: <u>1339 North Vasco Road, Liverm</u>	SAMPLED BY: ore, Califor	Brian Branscum	SAMPL QA SAM		
DATE PURGED 72814 DATE SAMPLED 72814 SAMPLE TYPE: Groundwater X	START (2400hr) SAMPLE TIME (2 Surface Wate		END (24 1435 ent Effluent	400hr) 143	
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" (0.38)	4" 5"	2) 6" <u>(1.50)</u>	8" (2.60)	Other
DEPTH TO BOTTOM (feet) = 19.44 DEPTH TO WATER (feet) = 9.69 WATER COLUMN HEIGHT (feet) = 9.75		CALCU	G VOLUME (gal) = JLATED PURGE (g AL PURGE (gal) =		
	FIELD M	IEASUREMENTS			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TEMP. (degrees C) 24.5 24.1 23.9	CONDUCTIVITY (umhos/cm) 1825 1849 1887	pH (units) 6.84 6.88 6.89	COLOR (visual) BEN BEN BRN	TURBIDITY (NTU) MED MED MED
SAMPLE DEPTH TO WATER: 9.81	SAMPLE	EINFORMATION			
			SAMPLE TURE		
80% RECHARGE: X YES NO ODOR: NA SAMPLE VE	ANAI SSEL / PRESERVA	LYSES: <u>BTEX, TPHg, :</u> TIVE: HCL	5 Oxygenates (EPA	8260B)	
PURGING EQUIPMENT Bladder Pump Bailer (Tell Centrifugal Pump Bailer (P	eflon) VC) ainless Steel)	Bladder Pum Centrifugal P Submersible Peristalic Pun Other:	Pump X Ba Pump Ba	iler (Teflon)	C or X disposable) el)
WELL INTEGRITY: <u>GOOD</u> REMARKS: <u>D.O 1.12</u>		I	LOCK#: <u>Y</u>	ES	
SIGNATURE: S.A.S.	7				Page 3 of 5

	Stantec Consu	0			
PROJECT #: 7-Eleven Store #32266 CLIENT NAME: 7-Eleven, Inc. LOCATION: 1339 North Vasco Road, Liverm	SAMPLED BY: Brian	LD DATA SHEI Branscum Branscum	ET WELL I.D SAMPLE QA SAMF	I.D.: <u>MW-</u>	+
DATE PURGED77814DATE SAMPLED77814SAMPLE TYPE:GroundwaterX	START (2400hr) SAMPLE TIME (2400hr) Surface Water	1320 132 Treatment Ef		00hr) 13	531
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" <u>4</u> " (0.38) <u>4</u> " (0.6	7) 5" (1.02)	6" (1.50)	8" (2.60)	Other ()
DEPTH TO BOTTOM (feet) = 19.34 DEPTH TO WATER (feet) = 9.60 WATER COLUMN HEIGHT (feet) = 9.74			DLUME (gal) = ED PURGE (gal) JRGE (gal) =	$\frac{1.6}{1.0} = \frac{4.8}{7.0}$	
	FIELD MEASUR	EMENTS			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(degrees C) (u <u>15.8</u> <u>1</u> <u>24.2</u>	and the second sec	pH (units) 6.90 6.94 6.94	COLOR (visual) BRN BRN LT. BRN	TURBIDITY (NTU) MED/LOW LOW
SAMPLE DEPTH TO WATER: 9.79	SAMPLE INFOR		AMPLE TURBIE	DITY: L	Ś
80% RECHARGE: X YES NO ODOR: NA SAMPLE VE	ANALYSES: SSEL / PRESERVATIVE:	BTEX, TPHg, 5 Oxy HCL	ygenates (EPA 8	260B)	
PURGING EQUIPMENT Bladder Pump Bailer (To Centrifugal Pump Bailer (P' X Submersible Pump Bailer (St Peristalic Pump Dedicated Other: Pump Depth:	VC)	SA Bladder Pump Centrifugal Pump Submersible Pump Peristalic Pump ther:	X Baile	er (Teflon)	c or X disposable)
WELL INTEGRITY: <u>GOOD</u> REMARKS: D.O 1.12	I		LOCK#: YES	S	
SIGNATURE:	、				Page <u>4</u> of <u>5</u>

W		onsulting Corp. E FIELD DATA S			
PROJECT #: <u>7-Eleven Store #32266</u> CLIENT NAME: <u>7-Eleven, Inc.</u> LOCATION: <u>1339 North Vasco Road, Liverm</u>	PURGED BY: SAMPLED BY:	Brian Branscum Brian Branscum	WELL SAMPL	WELL I.D.: <u>MW-</u> SAMPLE I.D.: <u>MW-</u> QA SAMPLES: None	
DATE PURGED7 28 14DATE SAMPLED7 28 14SAMPLE TYPE:Groundwater X	START (2400hr) SAMPLE TIME (2 Surface Wate		END (2	000hr) 1456	
CASING DIAMETER: 2" X Casing Volume: (gallons per foot) (0.17)	3" (0.38)	4" <u>(0.67)</u> 5" <u>(1.02</u>	6" (1.50)	$-\frac{8"}{(2.60)}$ Other ()	
DEPTH TO BOTTOM (feet) =20.01DEPTH TO WATER (feet) =10.11WATER COLUMN HEIGHT (feet) =9.96		CALCU	G VOLUME (gal) = JLATED PURGE (g AL PURGE (gal) =	1.0	
	FIELD M	IEASUREMENTS			
DATE TIME VOLUME (2400hr) (gal) 1/27/14 1450 1.6 1453 3.2 1456 4.8	TEMP. (degrees C) 24.5 24.5 24.7	CONDUCTIVITY (umhos/cm) 1334 1340 1386	pH (units) 7.02 6.96 6.91	COLOR (visual) <u>(T. BEN</u> <u>(J. BEN</u> <u>LT. BEN</u>	
SAMPLE DEPTH TO WATER: 10.26		INFORMATION	SAMPLE TURE	BIDITY: LOW	
80% RECHARGE: X YES NO	ANAI	LYSES: BTEX, TPHg, 5	5 Oxygenates (EPA	A 8260B)	
ODOR: NA SAMPLE VE	SSEL / PRESERVA	TIVE: HCL			
PURGING EQUIPMENT Bladder Pump Bailer (To Centrifugal Pump Bailer (P X Submersible Pump Bailer (St Peristalic Pump Dedicated Other: Pump Depth:	VC) ainless Steel)	Bladder Pumj Centrifugal P Submersible 1 Peristalic Pur Other:	ump XBa Pump Ba	QUIPMENT ailer (Teflon) ailer (PVC orX_ disposable) ailer (Stainless Steel) edicated	
WELL INTEGRITY: GOOD REMARKS: D.O 1.02			LOCK#:	VES	
SIGNATURE:				Page <u>5</u> of <u>5</u>	

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

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 Environmental Laboratory Accreditation Program (ELAP), lab number 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

Case Narrative

Recovery for Benzene in the Matrix Spike/ Matrix Spike Duplicate samples was outside control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.



Sample : MW-1		Matrix : Water		Lab Number : 88790-01	
Sample Date :07/28/2014		Mathad			
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 00:44
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 00:44
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 00:44
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 00:44
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 00:44
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 00:44
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 00:44
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 00:44
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/14 00:44
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/14 00:44
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/30/14 00:44
1,2-Dichloroethane-d4 (Surr)	98.8		% Recovery	EPA 8260B	07/30/14 00:44
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	07/30/14 00:44



Sample : MW-2		Matrix : Water		Lab Number : 88790-02	
Sample Date :07/28/2014		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:16
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:16
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:16
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:16
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:16
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:16
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:16
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:16
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/14 01:16
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/14 01:16
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/30/14 01:16
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	07/30/14 01:16
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	07/30/14 01:16



Sample : MW-3		Matrix : Water		Lab Number : 88790-03	
Sample Date :07/28/2014		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 1.0	1.0	ug/L	EPA 8260B	07/30/14 14:15
Toluene	< 1.0	1.0	ug/L	EPA 8260B	07/30/14 14:15
Ethylbenzene	< 1.0	1.0	ug/L	EPA 8260B	07/30/14 14:15
Total Xylenes	< 1.0	1.0	ug/L	EPA 8260B	07/30/14 14:15
Methyl-t-butyl ether (MTBE)	700	1.0	ug/L	EPA 8260B	07/30/14 14:15
Diisopropyl ether (DIPE)	< 1.0	1.0	ug/L	EPA 8260B	07/30/14 14:15
Ethyl-t-butyl ether (ETBE)	< 1.0	1.0	ug/L	EPA 8260B	07/30/14 14:15
Tert-amyl methyl ether (TAME)	1.0	1.0	ug/L	EPA 8260B	07/30/14 14:15
Tert-Butanol	6.8	5.0	ug/L	EPA 8260B	07/30/14 14:15
Ethanol	< 10	10	ug/L	EPA 8260B	07/30/14 14:15
TPH as Gasoline	< 100	100	ug/L	EPA 8260B	07/30/14 14:15
1,2-Dichloroethane-d4 (Surr)	98.5		% Recovery	EPA 8260B	07/30/14 14:15
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	07/30/14 14:15



Project Name : **7-Eleven Store #32266** Project Number : **185750084** Report Number : 88790 Date : 08/01/2014

Sample : MW-4		Matrix : \	Nater	Lab Number : 88790-04	
Sample Date :07/28/2014					
Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:47
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:47
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:47
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:47
Methyl-t-butyl ether (MTBE)	54	0.50	ug/L	EPA 8260B	07/30/14 01:47
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:47
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:47
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 01:47
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/14 01:47
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/14 01:47
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/30/14 01:47
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	07/30/14 01:47

% Recovery EPA 8260B

98.9

1,2-Dichloroethane-d4 (Surr) Toluene - d8 (Surr)

07/30/14 01:47



Sample : MW-5		Matrix : Water		Lab Number : 88790-05	
Sample Date :07/28/2014		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 02:19
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 02:19
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 02:19
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 02:19
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 02:19
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 02:19
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 02:19
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/30/14 02:19
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/14 02:19
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/14 02:19
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/30/14 02:19
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	07/30/14 02:19
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	07/30/14 02:19

QC Report : Method Blank Data

Project Name : 7-Eleven Store #32266

Project Number : 185750084

Parameter	Measured Value	Method Reportin Limit	g Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/29/2014
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/29/2014
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/29/2014
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/29/2014
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/29/2014
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/29/2014
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/29/2014
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/29/2014
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/29/2014
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/29/2014
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/29/2014
1,2-Dichloroethane-d4 (Surr)	99.8		%	EPA 8260B	07/29/2014
Toluene - d8 (Surr)	99.3		%	EPA 8260B	07/29/2014
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/2014
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/30/2014
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/30/2014
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/30/2014
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/2014
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/2014
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/2014
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/30/2014
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/30/2014
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/30/2014
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/30/2014
1,2-Dichloroethane-d4 (Surr)	99.6		%	EPA 8260B	07/30/2014
Toluene - d8 (Surr)	99.7		%	EPA 8260B	07/30/2014

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

Project Name : 7-Eleven Store #32266

Project Number : **185750084**

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KIFF ANALYTICAL, LLC

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

Project Name : 7-Eleven Store #32266

Project Number : **185750084**

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	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene														
Bonzono	88796-02	<0.50	40.0	40.0	40.0	38.9	ug/L	EPA 8260B	7/30/14	100	97.2	2.83	70.0-130	25
Diisopropyl eth	er						•							
	88796-02	<0.50	40.0	40.0	43.0	42.8	ug/L	EPA 8260B	7/30/14	107	107	0.371	70.0-130	25
Ethanol													/	
Ethyl-tert-butyl	88796-02	<5.0	100	100	112	106	ug/L	EPA 8260B	7/30/14	112	106	5.80	55.0-150	25
	88796-02	<0.50	40.0	40.0	42.4	42.1	ug/L	EPA 8260B	7/30/14	106	105	0.575	70.0-130	25
Ethylbenzene	00730-02	×0.00	40.0	40.0	72.7	72.1	ug/L		1130/14	100	100	0.075	70.0-150	25
2	88796-02	<0.50	40.0	40.0	41.1	40.2	ug/L	EPA 8260B	7/30/14	103	100	2.11	70.0-130	25
Methyl-t-butyl e	ether						•							
	88796-02	1.1	40.1	40.1	43.2	43.3	ug/L	EPA 8260B	7/30/14	105	105	0.367	70.0-130	25
P + M Xylene														
	88796-02	<0.50	40.0	40.0	42.4	41.5	ug/L	EPA 8260B	7/30/14	106	104	2.14	70.0-130	25
Tert-Butanol					0.40		"		= 10.0 // /	4.0.0		0 = 1	=	~-
Tert-amyl-meth	88796-02	15	200	200	219	212	ug/L	EPA 8260B	7/30/14	102	98.6	3.51	70.0-130	25
i ent-amyr-metin	88796-02	<0.50	40.0	40.0	40.4	41.3	ug/L	EPA 8260B	7/30/14	101	103	2.30	70.0-130	25
	00730-02	-0.00	-0.0	-U.U	-U. T	ч1. J	uy/L		1,00,14	101	100	2.00	10.0-100	20

KIFF ANALYTICAL, LLC

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

QC Report : Matrix Spike/ Matrix Spike Duplicate

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

Project Number : **185750084**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value		Analysis Method	Date Analyzed	Percent		Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene														
	88796-02	<0.50	40.0	40.0	40.8	39.5	ug/L	EPA 8260B	7/30/14	102	98.7	3.13	70.0-130	25

KIFF ANALYTICAL, LLC

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

Project Name : 7-Eleven Store #32266

Project Number : **185750084**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.1	ug/L	EPA 8260B	7/29/14	92.1	70.0-130
Diisopropyl ether	40.1	ug/L	EPA 8260B	7/29/14	98.9	70.0-130
Ethanol	100	ug/L	EPA 8260B	7/29/14	95.8	55.0-150
Ethyl-tert-butyl ether	40.1	ug/L	EPA 8260B	7/29/14	95.8	70.0-130
Ethylbenzene	40.1	ug/L	EPA 8260B	7/29/14	92.4	70.0-130
Methyl-t-butyl ether	40.2	ug/L	EPA 8260B	7/29/14	95.2	70.0-130
P + M Xylene	40.1	ug/L	EPA 8260B	7/29/14	95.6	70.0-130
TPH as Gasoline	485	ug/L	EPA 8260B	7/29/14	90.6	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	7/29/14	94.1	70.0-130
Tert-amyl-methyl ether	40.1	ug/L	EPA 8260B	7/29/14	94.8	70.0-130
Toluene	40.1	ug/L	EPA 8260B	7/29/14	93.1	70.0-130
Benzene	40.0	ug/L	EPA 8260B	7/30/14	99.7	70.0-130
Diisopropyl ether	40.0	ug/L	EPA 8260B	7/30/14	107	70.0-130
Ethanol	100	ug/L	EPA 8260B	7/30/14	97.0	55.0-150
Ethyl-tert-butyl ether	40.0	ug/L	EPA 8260B	7/30/14	108	70.0-130
Ethylbenzene	40.0	ug/L	EPA 8260B	7/30/14	101	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	7/30/14	106	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	7/30/14	106	70.0-130
TPH as Gasoline	485	ug/L	EPA 8260B	7/30/14	90.8	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	7/30/14	102	70.0-130
Tert-amyl-methyl ether	40.0	ug/L	EPA 8260B	7/30/14	102	70.0-130
Toluene	40.0	ug/L	EPA 8260B	7/30/14	101	70.0-130

Chain of Custody Number: Stantec Chain-of Custody Record Additional documents are attached, and are part of this Record. Field Office: 077 Sacramento 3017 Kilgore Road, Suite 100 Job Name: 7-Eleven Store #32266 Address: 1339 North Vasco Road Location: Rancho Cordova, CA Livermore, CA Project # Task # 300.0410 Analysis Request 185750084 Project Manager Danielle Manning EPA 8260 ГРН 418.1/WTPH 418.1 **Kiff Analytical** Laboratory Volatile rganics 624/8240 (g=GC/MS) Halogenated Volatiles 601/8010 Semi-volatile Organics 625/8270 (GC/MS) 5 Oxygenates EPA 8260B Ethanol Ethanol Number of Containers Turnaround Time Standard TPHd (Diesel Only) 8015 (modified) Aromatic Volatiles 602/8020 HCI-preserved **FPHg/BTEX** -Brian Bransoum Sampler's Name Sampler's Signature Comments/ Sample ID Date Time Matrix Instructions 8.7/28/14 1555 4 4 Х Х Х Water 0 **MW-1** 67 1415 Х Х Water 4 Х 4 **MW-2** 1500 Х Х Х 4 4 Water MW-3 Х 1335 Х Х 4 MW-4 Water 4 1435 Х Х Х 4 4 **MW-5** Water Received by: Sample Receipt Special Instructions/Comments Relinguished by Sign Total no. of containers: Sign 5 Oxygenates - MtBE, EtBE, DIPE, TAME, TBA Print **Brian Branscum** Print Chain of custody seals: Global ID #T10000001067 Stantec Company Rec'd in good condition/cold: Company email EDD to danielle.manning@stantec.com, Date 7/29/14 Time Date Conforms to record: Time 0915 deborah.lichtenberger@stantec.com email lab report to: Relinguished by: Received by: Mits deborah.lichtenberger@stantec.com / Sign Acurs Client: Stantec Sign danielle.manning@stantec.com Client Contact: Danielle Mannii Print Print of 14 Client Phone: (916) 861-0400 Company Company And Date Ô Date ming ext. 241 Time Time SECOR CUSTREC Rev. 2/99 7/28hi Page

Date:

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Analytical LLC			SAM	PLE RI	ECEIPT C	HECI	KLIST			SRG #:	88	3790	
Sample Receipt	Initials/Da	te: MAS 07291	4 Stor	rage Time	: 0917	Sample	e Login	Initials/	Date:	MAS	072	914	
TAT: Standard		Rush 🗌 Spli			Method of R	eceipt	🗌 Cour	ier 🕅	Over-the	-counter		Shipped	
Temp °C 0.2	□ N/A	Therm IDTR3	Time	0915	Coolant pre	sent	V Yes	☐ No	🗆 W	ater	ПТе	mp Excurs	ion
For Shipments Only:	Cooler	Receipt Initials/Da	te/Time:	· · · · ·			Custody	Seals	□ N/A		act	Broke	n

Comments:

Chain-of-Custody:	Yes	No
Is COC present?	\times	
Is COC signed by relinquisher?	Ϋ́,	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	\times	

Documented on	COC	Labels	Discrepancies:
Sample ID	\mathbf{x}	X	
Project ID	×	X	
Sample Date	X	Ý	
Sample Time	\succ	×	
Does COC match	project h	nistory?	□ N/A XYes □ No

Samples:	N/A	Yes	No
Are sample custody seals intact?			
Are sample containers intact?		\times	
Is preservation documented?		\mathbf{X}	
In-house Analysis:	N/A	Yes	No
Are preservatives acceptable?		X	
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Receipt Details:

Matrix W A	Container Type	# of Containers		
	······································			CS Required:
Page 14			Proceed With Analysis: YES NO Init/Dat Client Communication:	e:
of 14				