

Euclid-Hazard 7-Eleven Service Station Project

Appendix G

Phase II Environmental Site Assessment Euclid-Hazard 7-Eleven Service Station



Stantec Consulting Services, Inc. 9665 Granite Ridge Drive, Suite 220 San Diego, CA 92123-2636 (858) 751-1200

October 18, 2019 File: 185850892.800

Attention: Mr. Peter Gonzalez

7-Eleven, Inc. 330 East Lambert Road, Suite 150 Brea, CA 92821

Reference: Phase II Environmental Site Assessment 7-Eleven Store No. 38384 (1042163) 821 North Euclid Street Santa Ana, CA 92703

Dear Mr. Gonzalez,

On behalf of 7-Eleven, Inc. (7-Eleven), Stantec has prepared the following report describing the results of assessment activities conducted at 7-Eleven Store No. 38384 (1042163), located at 821 North Euclid Street in Santa Ana, California (Figure 1). The 7-Eleven environmental services department requested the assessment to evaluate potential petroleum hydrocarbon impact(s) to soil and groundwater from former operation of the property as a gas station with a Leaking Underground Storage Tank (LUST) case.

Scope of Work

- Prepared a site-specific Health and Safety Plan (HASP);
- Prepared and submitted a well construction permit to Orange County Health Care Agency (OCHCA);
- Notified Underground Service Alert (USA) and a private utility locator (Pacific Coast Locators, Inc. [PCL]) to locate, identify, and mark-out subsurface utilities;
- Supervised the advancement of five soil boreholes (B1 through B5) at the locations shown on Figure 2;
- Collected soil and groundwater samples during drilling operations;
- Analyzed soil and groundwater samples from the boreholes for total petroleum hydrocarbonsgasoline range organics (TPH-GRO), benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX), methyl tert-butyl ether (MTBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), diisopropyl ether (DIPE), and ethyl tert-butyl ether (ETBE) using EPA Method 8260B; and
- Prepared this report, which includes our findings and conclusions.

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Reference: Phase II Environmental Site Assessment

Background

The Property is located at the northwest corner of West Hazard Avenue and North Euclid Street in Santa Ana, California, and is an approximately 0.60-acre parcel consisting of a vacant lot. Historical records indicate that the Property operated as a gas station from at least 1972 through 1987. The remaining parking lot and building were demolished sometime between 2005 and 2009. The Property is listed in the State of California's Water Board GeoTracker website as a LUST site with a cleanup status 'Completed – case closed as of July 5, 2005'. Gasoline was listed as the potential contaminant of concern and soil and groundwater were considered as potential media of concern. Due to historic use of the Property as a gasoline station with known or potential presence of residual contamination in soil, soil vapor and groundwater and former releases at the Property, a Phase II ESA was recommended.

Subsurface Investigation

Drilling

A well construction permit application for the soil boreholes was prepared and submitted to OCHCA. The approved permit in included in Attachment A.

A site-specific HASP was prepared to address potential hazards during the proposed drilling activities. Stantec personnel and subcontractors were required to acknowledge the HASP plan prior to the field work.

USA was notified of the work a minimum of 48 hours prior to drilling as required by law. USA notified local utility companies of the planned work in order to have the drilling area marked for utilities. Stantec also contracted a private utility locator (PCL) to mark the locations of any additional subsurface utilities.

On September 26, 2019, five proposed borehole locations were cleared for subsurface utilities with a hand auger by ABC Liovin Drilling (ABC) of Signal Hill, California to a depth of approximately eight feet below ground surface (bgs). Boreholes B1 through B5 were then advanced to a total depth of 15 feet bgs (Figure 2), using a direct push drilling rig equipped with 2.25-inch diameter probes and operated by ABC. Groundwater was initially encountered in all of the five boreholes between 13 and 14 feet bgs. Static groundwater was observed at depths ranging from 11.5 to 12 feet bgs. The drilling was directed by Stantec geologic staff working under the supervision of a State of California Professional Geologist.

Soil samples were collected approximately every five vertical feet and at total depth during the advancement of the boreholes. Soil samples were collected for soil classification, laboratory analysis, and field screening purposes. Samples collected during drilling were recovered using acetate sleeves lining the direct push probes. The ends of the acetate sleeves were covered with Teflon® sheets and plastic end-caps. The samples were then labeled, placed in a cooler with ice, and recorded using chain of custody (COC) protocols. The samples not submitted for laboratory analysis were used for soil description and field screening purposes. Stantec submitted 15 soil samples collected from the boreholes to the laboratory under COC, and six soil samples were analyzed.

All sampling equipment was decontaminated prior to sampling with a solution of Alconox® detergent and water and rinsed with clean water to prevent cross-contamination between boreholes.

Following soil sample collection, a temporary casing was set in each of the boreholes. Groundwater samples were collected from B1 through B5 using a reusable stainless-steel bailer. Collected water

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Reference: Phase II Environmental Site Assessment

samples were discharged directly into the appropriate sampling containers. The samples were labeled with the sample number, collection date, time, and type of preservative. The groundwater samples were placed in a cooler with ice and recorded using COC protocols.

Following collection of soil and groundwater samples, the soil boreholes were backfilled with Portland cement grout and capped with native soil to match the existing surface. Waste generated during drilling was stored in 55-gallon steel drums onsite. Borehole logs are presented in Attachment B.

Analytical Methods

The soil and groundwater samples were transported under appropriate COC to TestAmerica Laboratories, Inc. (TestAmerica) of Irvine, California, a State of California-certified analytical laboratory. Samples were analyzed for TPH-GRO, BTEX, TAME, TBA, DIPE, ETBE, and MTBE.

Soil Sample Analytical Results

TPH-GRO was detected in three of the six soil samples at concentrations ranging from 0.182 milligrams per kilogram (mg/kg) in B5-15 to 11,300 mg/kg in B3-15. TPH-GRO was not detected in the remaining three soil samples above laboratory reporting limits (LRLs).

Benzene, toluene, and total xylenes were detected in B3-15 at concentrations of 2.35 mg/kg, 1.17 mg/kg, and 524 mg/kg, respectively. Benzene, toluene, and total xylenes were not detected in the remaining five soil samples above their respective LRLs.

Ethylbenzene was detected in B3-10 and B3-15 at concentrations of 0.309 mg/kg and 190 mg/kg, respectively. Ethylbenzene was not detected in the remaining four soil samples above their LRLs.

TAME, TBA, DIPE, ETBE, and MTBE were not detected in any of the six soil samples above their respective LRLs.

Soil sample analytical results are summarized in Table 1. Copies of the certified analytical laboratory reports and COC documentation are presented in Attachment C.

Groundwater Sample Analytical Results

TPH-GRO was detected in B1-W, B3-W, and B4-W at concentrations of 1,310 micrograms per liter (μ g/L), 148,000 μ g/L, and 73.0 μ g/L, respectively. TPH-GRO was not detected in the remaining two groundwater samples above the LRL.

Benzene was detected in B3-W at a concentration of 1,660 μ g/L. Benzene was not detected in the remaining four groundwater samples above the LRL.

Toluene was detected in B1-W at 2.20 µg/L. Benzene was not detected in the remaining four groundwater samples above the LRL.

Ethylbenzene was detected in B3-W and B4-W at concentrations of 5,250 μ g/L and 3.38 μ g/L, respectively. Ethylbenzene was not detected in the remaining three groundwater samples above the LRL.

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Reference: Phase II Environmental Site Assessment

Total xylenes were detected in four of the five groundwater samples at concentrations ranging from 3.57 μ g/L in B5-W to 19,500 μ g/L in B3-W. Total xylenes were not detected in B2-W above the LRL.

TAME, TBA, DIPE, ETBE, and MTBE were not detected in any of the five groundwater samples above their respective LRLs.

Groundwater sample analytical results are summarized in Table 2. Copies of the certified analytical laboratory reports and COC documentation are presented in Attachment C.

Phase II Summary and Conclusions

The lithologies observed in the boreholes drilled during this investigation consisted predominantly of silty sand, sandy silt, and poorly graded sand. Groundwater was initially encountered in all of the five boreholes between 13 and 14 feet bgs. Static groundwater was observed at depths ranging from 11.5 to 12 feet bgs.

TPH-GRO was detected in three of the six samples at concentrations ranging from 0.182 mg/kg in B5-15 to 11,300 mg/kg in B3-15. Benzene, toluene, and total xylenes were detected in B3-15 at concentrations of 2.35 mg/kg, 1.17 mg/kg, and 524 mg/kg, respectively. Ethylbenzene was detected in B3-10 and B3-15 at concentrations of 0.309 mg/kg and 190 mg/kg, respectively. None of the remaining constituents were detected in any of the soil samples above their respective LRLs.

TPH-GRO was detected in B1-W, B3-W, and B4-W at concentrations of 1,310 μ g/L, 148,000 μ g/L, and 73.0 μ g/L, respectively. Benzene was detected in B3-W at 1,660 μ g/L. Toluene was detected in B1-W at 2.20 μ g/L. Ethylbenzene was detected in B3-W and B4-W at concentrations of 5,250 μ g/L and 3.38 μ g/L, respectively. Total xylenes was detected in four of the five groundwater samples with concentrations ranging from 3.57 μ g/L in B5-W to 19,500 μ g/L in B3-W. None of the remaining constituents were detected in any of the groundwater samples above their respective LRLs.

No additional assessment is recommended at this time. The hydrocarbon concentrations detected in the soil and groundwater samples appear to be residual from the closed LUST case on the site. However, the TPH GRO concentration in soil sample B3-15, and the TPH GRO and benzene concentrations in B3-W are above action levels and should be reported to the Santa Ana Water Board. Additional soil sampling will be needed in the future to provide information for soil and water disposal at the time of construction.

The closure letter states: "if land use changes at the site, a review of the corrective actions may be warranted if on-site excavation or construction activities expose contaminated soil or groundwater or if changes in land use indicate that the residual contamination at the site poses a risk to site occupants". Agency notification will be required for the change in site use, and for the construction activities. Residual hydrocarbon impact in both soil and groundwater will likely be encountered during construction. A soil and groundwater management plan will be required prior to construction. Stantec recommends that environmental personnel be present on-site for excavation as needed.

Hydrocarbon impacted soil and groundwater could affect development plans for the site (planned as a fuel location), and costs should be included in the development plans to dispose of impacted soil and groundwater.

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Reference: Phase II Environmental Site Assessment

Limitations

This report has been prepared for the exclusive use of 7-Eleven, Inc. as it pertains to their site located at 821 North Euclid Street in Santa Ana, California. The findings and conclusions rendered in this report are opinions based primarily on laboratory testing of soil samples collected during this project. This report does not reflect subsurface variations which may exist between sampling points. These variations cannot be anticipated, nor can they be entirely accounted for even with exhaustive additional testing.

All work has been performed with the degree of skill generally exercised by practicing engineers and geologists in the environmental field. Stantec makes no other warranty, either expressed or implied, concerning the conclusions and professional advice which is contained within the body of this report.

If you have any questions regarding this report, please contact the undersigned.

Regards,

STANTEC CONSULTING SERVICES INC.

Katie O'Neill

Katie O'Neill Project Engineer Phone: (925) 627-4536 Katie.ONeill@stantec.com

tame Connell

Patrick McConnell Principal Geologist, PG #7205 Phone: (858) 633-4222 Pat.McConnell@Stantec.com

2011100 , lenco Jenna Martinez Senior Scientist

Phone: (858) 633-4247 Jenna.Martinez@Stantec.com

Attachments: Table 1 – Soil Sample Analytical Results

 Table 2 – Groundwater Sample Analytical Results
 Figure 1 – Site Location Map
 Figure 2 – Site Map
 Attachment A – Drilling Permit
 Attachment B – Borehole Logs and Legend
 Attachment C – Soil and Groundwater Sample Laboratory Analytical Reports and Chain-of-Custody Documentation

Jose Rios, 7-Eleven Inc.
 John Wainwright, Stantec Consulting Services Inc, Salt Lake City, UT

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TABLES

Design with community in mind

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

7-Eleven Store No. 38384 (1042163)

821 North Euclid Street

Santa Ana, CA 92703 All concentrations in milligrams per kilogram (mg/kg).

Sample ID	Depth in feet	Sample Date	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TAME	ТВА	DIPE	ETBE	MTBE
B1-15	15	09/26/19	<0.0980	<0.00196	<0.00196	<0.00196	<0.00392	<0.00490	<0.0980	<0.00490	<0.00490	<0.00490
B2-15	15	09/26/19	<0.0973	<0.00195	<0.00195	<0.00195	<0.00389	<0.00486	<0.0973	<0.00486	<0.00486	<0.00486
B3-10	10	09/26/19	117	<0.00917	<0.00917	0.309	<0.0183	<0.0229	<0.459	<0.0229	<0.0229	<0.0229
B3-15	15	09/26/19	11,300	2.35	1.17	190	524	<0.997	<19.9	<0.997	<0.997	<0.997
B4-15	15	09/26/19	<0.101	<0.00201	<0.00201	<0.00201	<0.00402	<0.00503	<0.101	<0.00503	<0.00503	<0.00503
B5-15	15	09/26/19	0.182	<0.00198	<0.00198	<0.00198	<0.00396	<0.00495	<0.0990	<0.00495	<0.00495	<0.00495

Notes: Bold Print - concentration equals or exceeds laboratory reporting limit

TPH-GRO = Total petroleum hydrocarbons gasoline range organics

TAME = Tert-amyl methyl ether

TBA = Tert-butanol

DIPE = Diisopropyl ether

ETBE = Ethyl-tert-butyl ether

MTBE = Methyl-tert-butyl ether

< = Below laboratory reporting limit shown

TPH-GRO, benzene, toluene, ethylbenzene, total xylenes, TAME, TBA, DIPE, ETBE, and MTBE analyzed by Environmental Protection Agency (EPA) Test Method 8260B.

TABLE 2GROUNDWATER SAMPLE ANALYTICAL RESULTS7-Eleven Store No. 38384 (1042163)821 North Euclid StreetSanta Ana, CA 92703

All concentrations in micrograms per liter (μ g/L).

Sample ID	Sample Date	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TAME	ТВА	DIPE	ETBE	MTBE
B1-W	09/26/19	1,310	<2.00	2.20	<2.00	12.4	<5.00	<10.0	<5.00	<5.00	<1.00
B2-W	09/26/19	<50.0	<2.00	<2.00	<2.00	<2.00	<5.00	<10.0	<5.00	<5.00	<1.00
B3-W	09/26/19	148,000	1,660	<500	5,250	19,500	<1,250	<2,500	<1,250	<1,250	<250
B4-W	09/26/19	73.0	<2.00	<2.00	3.38	12.8	<5.00	<10.0	<5.00	<5.00	<1.00
B5-W	09/26/19	<50.0	<2.00	<2.00	<2.00	3.57	<5.00	<10.0	<5.00	<5.00	<1.00

Notes: Bold Print - concentration equals or exceeds laboratory reporting limit

TPH-GRO = Total petroleum hydrocarbons gasoline range organics

TAME = Tert-amyl methyl ether

TBA = Tert-butanol

DIPE = Diisopropyl ether

ETBE = Ethyl-tert-butyl ether

MTBE = Methyl-tert-butyl ether

< = Below laboratory reporting limit shown

TPH-GRO, benzene, toluene, ethylbenzene, total xylenes, TAME, TBA, DIPE, ETBE, and MTBE analyzed by Environmental Protection Agency (EPA) Test Method 8260B.



FIGURES

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San Diego, CA 92123-2636 www.stantec.com



ORIGINAL SHEET - ANSI B



9665 Granite Ridge Drive, Suite 220 San Diego, CA 92123-2636 www.stantec.com

NOTES:

- 1. MAP REFERENCES; GOOGLE EARTH PROFESSIONAL AERIAL IMAGE, 2018.
- COORDINATE SYSTEM; NAD 83 ZONE V (FT). NOT A SURVEYED MAP, SITE FEATURES AND LOCATIONS ARE APPROXIMATE.





ATTACHMENT A DRILLING PERMIT

Design with community in mind

ITY	
Santa Ana	DATE 9/10/2019
ELL LOCATION (ADDRESS IF AVAILABLE) 821 North Euclid Street	
AME OF WELL OWNER 7-Eleven , Inc.	TYPE OF WELL (CHECK) PROBE SURVEY
DDRESS Attn: Gas Accounting, PO Box 711	PRIVATE DOMESTIC MONITORING PUBLIC DOMESTIC SOIL BORING
ITY ZIP TELEPHONE Dallas, TX 75221 972-828-5593	
AME OF CONSULTING FIRM Stantec Consulting Services, Inc.	
USINESS ADDRESS 9665 Granite Ridge Drive Suite 220	A. WELLS – SUBMIT A WELL CONSTRUCTION DIAGRAM (INCLUDE DIMENSIONS)
TY ZIP TELEPHONE San Diego 92123 858-633-4222	B. SOIL BORINGS AND PROBES -
AME OF DRILLING CO. C-57 LICENSE NO. ABC Liovin Drilling, Inc. 422904	TOTAL DEPTH <u>15 ft bgs</u>
ITY ZIP TELEPHONE Signal Hill 90755 562-981-8575	C. PROPOSED START DATE _9/26/2019
	APPLICANT'S SIGNATURE DATE Patrick McConnell PG #7205 PRINT NAME 858-633-4222 PHONE NUMBER FAX NUMBER
R ACCOUNTING USE ONLY:	DISPOSITION OF PERMIT (DO NOT FILL IN):
но 400422 снеск но 5015	APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:
DATE 91219 AMOUNT $$382.00$ NTL BV PROVAL BY OTHER AGENCIES:	A. NOTIFY THIS AGENCY AT LEAST 48 HOURS PRIOR TO START. Notify of any changes. PRIOR TO SEALING THE ANNULAR SPACE OR FILLING OF THE CONDUCTOR CASING.

s '

WHEN SIGNED BY ORANGE COUNTY HEALTH CARE AGENCY REPRESENTATIVE, THIS APPLICATION IS A PERMIT. @.F272-09.0803 (R11/01)



ATTACHMENT B

BOREHOLE LOGS AND LEGEND

Design with community in mind

ECI:	7-Elev	/en St	ore No. 38384 (1042163)	WELL / PROBEHOLE / BOREHOLE NO: Stantec										
	: 821 E NU IMB	Euclid	Street, Santa Ana, CA 85850892	B	1					PAG		Stantec		
ING /	INST		TION:	NC		IG (ft):				EASTI	NG (ft):			
TED:	9/26/	2019	COMPLETED: 9/26/2019	LA	TITUD	E:				LONG	ITUDE:			
ING (COMP	ANY:	ABC Liovin Drilling	GF		ELEV	(ft): N/A	26/40						
ING E	EQUIP	MEN	T: Geoprobe Rig 6712 DT) TW (ft):)TW (ft)	13 9/	26/19		BOREHOLE DEPTH (ft): 15.0 WELL DEPTH (ft): N/A				
ING N	NETH	0D: D	irect Push Technology	WELL CASING DIAM. (in): N/A LOGGED BY: G. Pankratz						BOREI	HOLE DIA	M. (in): 2.25		
LING	EQUI	PMEN	NT: Acetate Liners / Slide Hammer							CHEC	KED BY: P	. McConnell		
(feet)	Graphic Log	nscs	Description	Sample	Sar	Гіте nple ID	Measured Recov. (feet)	Blow Count	Headspace PID (ppm)	Depth (feet)		Borehole Backfill		
		SM	Native soil, minor vegetation and brush, cleared/hand augered to 8' bgs SM; SILTY SAND, 2.5Y 5/4 light olive brown, ~85% fine-grained, subangular, ~15% fines,							-		 Native Soil 		
			Same as above, 5Y 7/2 light gray			8:49 B1-5	8		1.7			 Type I/II Portland Cement Grout 		
-10		ML	ML; SANDY SILT, 2.5Y 4/2 dark grayish brown, ~30% subrounded to subangular fine-grained sand, ~70% fines, firm, moist, micaceous, slow dilatancy, increase of fine-grained sand with depth			9:07 31-10	2		4.6	- 10 - 				
		SM	SM; SILTY SAND, 5Y 5/1 gray, ~60% fine-grained, subrounded to subangular, ~40% fines, dense, wet, feldspar, poorly graded Borehole terminated at 15 feet bgs. Groundwater sample collected at 9:50			9:09 31-15			11.8					
			10 - ML 10	Discrete Solution Solution ING / INSTALLATION: ECT NUMBER: 165850892 ING / INSTALLATION: COMPLETED: 9/26/2019 ING COMPANY: ABC Liovin Drilling ING COMPANY: ABC Liovin Drilling ING COUPANY: ABC Liovin Drilling ING EQUIPMENT: Geoprobe Rig 6712 DT ING EQUIPMENT: Acetate Liners / Slide Hammer Interpretation ING EQUIPMENT: Acetate Liners / Slide Hammer Solution ING EQUIPMENT: Acetate Liners / Slide Hammer Solution	DC1 - Fielder Buckling Street, Santa Ana, CA ECT NUMBER: 18580692 ING / INSTALLATION: ECD 9/26/2019 ING COMPANY: ABC Liovin Drilling ING EQUIPMENT: Geoprobe Rig 6712 DT ING EQUIPMENT: Acetate Liners / Slide Hammer LING EQUIPMENT: Acetate Liners / Slide Hammer ION Edd Street, Santa Ana, CA ING EQUIPMENT: Acetate Liners / Slide Hammer ION Edd Street, Santa Ana, CA ING EQUIPMENT: Acetate Liners / Slide Hammer ION Edd Street, Santa Ana, CA ING EQUIPMENT: Acetate Liners / Slide Hammer ION Edd Street, Santa Ana, CA SM SM: SILTY SAND, 2.5Y 5/4 light olive brown, ~85% fine-grained, subangular, ~15% fines, medium dense, moist, quartz, feldspar, poorly graded Same as above, 5Y 7/2 light gray ML ML: SANDY SILT, 2.5Y 4/2 dark grayish brown, ~30% subrounded to subangular fine-grained sand, ~70% fines, firm, moist, micaceous, slow dilatarcy, increase of fine-grained sand with depth IO ML ML: SANDY SY 5/1 gray, ~60% fine-grained, subrounded to subangular, ~40% fines, dense, wet, feldspar, poorly graded IS SM SM: SILTY SAND, 5	Difference Same as above, 5Y 7/2 light gray Image: Same as above, 5Y 7/2 light gray ML ML: SANDY SILTY SAND, 5Y 5/1 gray, ~60% fine-grained sand with depth Same as above, 5Y 7/2 light gray Same as above, 5Y 7/2 light gray ML ML: SANDY SILTY SAND, 5Y 5/1 gray, ~60% fine-grained sand with depth Same as above, 5Y 7/2 light gray ML ML: SANDY SILTY SAND, 5Y 5/1 gray, ~60% fine-grained sand with depth Same as above, 5Y 7/2 light gray Same as above, 5Y 5/1 gray, ~60% fine-grained sand with depth Same as above, 5Y 5/1 gray, ~60% fine-grained sand with depth	Dir. 2 Euclid Street, Santa Ana, CA B1 Dir. 321 Euclid Street, Santa Ana, CA B1 CT NUMBER: 18550982 NORTHING (ft): LING COMPANY: ABC Liovin Drilling ING COMPANY: ABC Liovin Drilling ING EQUIPMENT: Geoprobe Rig 6712 DT ING COMPANY: ABC Liovin Drilling ING EQUIPMENT: Acctate Liners / Slide Hammer NoRTHING (ft): LING EQUIPMENT: Acctate Liners / Slide Hammer 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000	Div. 221 Euclid Street, Santa Aa, CA COT NUMBER: 138580392 ING COMPANY: ABC Llovin Drilling ING COMPANY: ABC Llovin Drilling ING COMPANY: ABC Llovin Drilling ING COUPMENT: Cooprobe Rig 6712 DT ING BOUIPMENT: Cooprobe Rig 6712 DT ING COUPMENT: Acetate Liners / Stilde Hammer ING CoupMent (Intersection and brush, cleared/hand augerd to 8' bgs SM SM: SILTY SAND, 2:5Y 5/1 gray, -65% fines, medium dense, moist, quartz, feldspar, pooriy graded ING ML ML ML ML: SANDY SILT, 2:5Y 5/1 gray, -60% fine-grained, subrounded to subangular, -40% fines, dense, wet, feldspar, pooriy graded SM SM: SILTY SAND, 5Y 5/1 gray, -60% fine-grained, subrounded to subangular, -40% fines, dense, wet, feldspar, pooriy graded SM SM: SILTY SAND, 5Y 5/1 gray, -60% fine-grained,	Dir. 2.42 include Street, Sama Aan, CA MELT / PROBENCIE / BORCH Dir. 2.57 include Street, Sama Aan, CA BI Cort NUMBER: 188860892 MORTHING (ft): ING COMPANY: ABC Llovin Drilling MORTHING (ft): ING COMPANY: ABC Llovin Drilling MORTHING (ft): ING COMPANY: ABC Llovin Drilling GROUND ELEV (ft): N/A ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 ING METHOD: Direct Push Technology Static University (ft): 12 9/26/19 Samp as above, 5Y 7/2 light gray Static University (ft): 12 9/26/19 Same as above, 5Y 7/2 light gray 9:07 B1:0 ML ML ML: SANDY SLT, 2.5Y 4/2 dark grayish Inne-grained sand with depth 9:07 Si SM SM: SILTY SAND, 5Y 5/1 gray, ~60%	Disk 221 Euclid Street, Sant Ana, CA ECI NUMER: 13850922 NIX / INSTALTON: ING COMPANY: ASC Liovin Drilling ING COMPART: Acetate Liners / Silde Hammer LING COUPMENT: Acetate Liners / Silde Hammer	Dir. Barten Jours Ausser (192103) WELL / PRODEHOLE / BURCHOLE / BURCH	Mill Ling Product / Use 2001 Mill Ling Product / Use 2001 Dirik Ling Product / Use 2001 Cir Multipler / 1989/0922 Does 1 use 1 Dirik Ling Product / Use 2001 Dirik Ling Product / Use 2001 Dirik Comparity Comparity / Use 2001 Dirik Comparity Description Dirik Comparity Description </th		

	PROJECT:	7-Elev	/en St	ore No. 38384 (1042163)	WELL / PROBEHOLE / BOREHOLE NO: Stantec								
		1: 821 E		Street, Santa Ana, CA	B2)				PAGE 1 OF 1			
	DRILLING	/ INST		ΓΙΟΝ:	NOR	THING (ft):				EASTI	NG (ft):		
	STARTED:	9/26/	2019	COMPLETED: 9/26/2019	LATI	TUDE:				LONG	ITUDE:		
	DRILLING	COMP	ANY:	ABC Liovin Drilling	GROUND ELEV (ft): N/A TOC ELEV (ft): N/A								
	DRILLING	EQUIF	MEN	⊺: Geoprobe Rig 6712 DT	STATIC DTW (ft): 12 9/26/19 WELL DEPTH (ft): N/A								
	DRILLING	METH	0D: D	irect Push Technology	WEL	L CASING D	IAM. (ir	n): N/A		BOREI	HOLE DIAN	1. (in): 2.25	
	SAMPLING	EQUI	IPMEN	NT: Acetate Liners / Slide Hammer	LOG	GED BY: G.	Pankra	atz		CHEC	KED BY: P.	McConnell	
	Time & Depth (feet)	Graphic Log	nscs	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	eadspace PID (ppm)	Depth (feet)		Borehole Backfill	
			SP- SM	Native soil, minor vegetation and brush, cleared/hand augered to 8' bgs SP-SM; POORLY GRADED SAND WITH SILT, 2.5Y 5/3 light olive brown, ~90% fine-grained, subrounded to subangular, ~10% fines, medium dense, moist, quartz, feldspar, poorly graded		9:36 B2-5	8		4.9			► Native Soil	
JS1342.GDT 10/8/19	-		M	Same as above, 5Y 7/2 light gray, becomes lensed (~1-inch silt lenses) with depth			2			-		← Type I/II Portland Cement Grout	
JGS_SANTA_ANA_20191002.GPJ STANTECU	10— — —		ML	ML; SANDY SILT, 5Y 4/2 olive gray, ~30% subrounded to subangular fine-grained sand, ~70% fines, firm, moist, quartz, trace pea gravel, slow dilatancy, increase of fine-grained sand with depth		10:05 B2-10	5		3.5	10- - ⊻ - ⊻ -			
SEO FORM 304_STANTEC ENVIRO 101613 FIG_BORING_LC	 			Same as above, wet, mica Borehole terminated at 15 feet bgs. Groundwater sample collected at 10:55		10:09 B2-15			5.3				

B3 point of the set is a starter. Deck Lock point of the set is a starter. Deck Lock point of the set is a starter. Deck Lock East NNA (II):		PROJECT:	7-Elev	/en St	ore No. 38384 (1042163)	WE	LL / PROBEH	OLE / E	BOREH	OLE N	O:		Stantoc	
OPILING CONTALLATION: COMPLETED: 9/26/2019 NORTHING (II): LATTUDE: LONGTING: CONTALLATION: STARTED: 9/26/2019 COMPLETED: 9/26/2019 NORTHING (II): LATTUDE: COMPLETED: 9/26/2019 NORTHING (III): LATTUDE: COMPLETED: 9/26/2019 DRILLING EQUIPMENT: Geoprobe Rig 6712 DT DRILLING EQUIPMENT: Geoprobe Rig 6712 DT DRILLING EQUIPMENT: Actate Liner's Slide Hammer NORTHING (III): LATTUDE: Softenbel: EDEPTH (III): 15.0 WELL CASIND GAM (III): NA DOBE: VIE: NA SITUEL DEVEND (III): LATTUDE: EASTING (III): CONCILUE: Image: State Sta			1: 821 E NUMB	Euclid	Street, Santa Ana, CA 85850892	B	3				PAG		Stantec	
STATED: 026/2019 COMPLETE: 026/2019 DRILING COMPANY: ABC Llowin Drilling COMPLETE: 026/2019 DRILING COMPANY: ABC Llowin Drilling COMPLETE: 026/2019 DRILING COMPANY: ABC Llowin Drilling Complete Province Provinc		DRILLING	/ INST	ALLA	TION:	NO	RTHING (ft):				EASTI	NG (ft):		
DRULING COMPARY: ABC Llovin Drilling GROUND ELEV (If) N/A TOCELEV (If) N/A DRULING COMPARY: ABC Llovin Drilling Minia DTW (If) 14 902019 STATIC DTW (If) 12 902019 STATIC DTW (If) 12 902019 SAMPLING ECOUPWENT: Acctate Liners / Slide Hammer Static DTW (If) 2 902019 Softender De DM (If) 2 25 SAMPLING ECOUPWENT: Acctate Liners / Slide Hammer Description ^a / _B Image: Static DTW (If) 2 902019 Description ^a / _B Time (If) 2 902019 ^B / _B (If) 2 902019 Image: Static DTW (If) 2 902019 Description ^a / _B Time (If) 2 902019 ^B / _B (If) 2 902019 Image: Static DTW (If) 2 902019 Description ^a / _B Time (If) 2 902019 ^B / _B (If) 2 902019 Image: Static DTW (If) 2 902019 Description ^a / _B Time (If) 2 902019 ^B / _B (If) 2 902019 Image: Static DTW (If) 2 902019 Description ^a / _B Time (If) 2 902019 ^B / _B (If) 2 902019 Image: Static DTW (If) 2 902019 Description ^b / _B (If) 2 902019 ^B / _B (If) 2 902019 ^B / _B (If) 2 902019 Image: Static DTW (If) 2 902019 ^B / _B (If) 2 902019 ^B / _B (If) 2 902019 <th></th> <th>STARTED:</th> <th>9/26/</th> <th>2019</th> <th>COMPLETED: 9/26/2019</th> <th>LAT</th> <th></th> <th></th> <th></th> <th></th> <th>LONG</th> <th>ITUDE:</th> <th></th>		STARTED:	9/26/	2019	COMPLETED: 9/26/2019	LAT					LONG	ITUDE:		
DRILING ECULPRIET: Geoprobe Rig 6712 DT DRILING ETCULPRIET: Geoprobe Rig 6712 DT DRILING ETCULPRIET: Acetate Liners / Silde Hammer Intrinc Casino Datal. (in) NA WELL CASINO DAtal. (in) NA SAMPLING ECULPRIET: Acetate Liners / Silde Hammer Description Intrinc Casino Datal. (in) NA WELL CASINO DAtal. (in) NA Some Board Datal. (DRILLING	COMP	ANY:	ABC Liovin Drilling	GR	OUND ELEV (ft): N/A 11 0/	26/10		TOC ELEV (ft): N/A			
DRLINK METHOD. Direct Push Technology WELL CASING DIAM. (n): NUA Borchail SAMPLING SOLUMENT: Acotate Liners / Slide Hammer LOGGED BY G. Pankratz Borchail		DRILLING	EQUIF	MEN	T: Geoprobe Rig 6712 DT	STATIC DTW (ft): 12 9/26/19						WELL DEPTH (ft): 15.0		
SAME LINKS EQUIPMENT: Acetate Liners / Slide Hammer LOCGED BY: G. Pankretz CHECKED BY: P. McConnell ^w		DRILLING	METH	0D: D	Pirect Push Technology	WELL CASING DIAM. (in): N/A						BOREHOLE DIAM. (in): 2.25		
a c c c c c c c c c c c c c c c c c c c		SAMPLING	EQU	PMEN	NT: Acetate Liners / Slide Hammer	LO	GGED BY: G .	Pankra	atz		CHEC	KED BY: P .	McConnell	
Big Dog SM SM SILTY SAND WITH GRAVEL, 2:5Y 4/4 one brown, -55% fine-grained, -20% gravel, subrounded to subargular. 20% gravel, subrounded to subargular. 20% gravel, subrounded to subargular fine-grained sand. 28% fines, fine-grained sand. 38% fine-grained sa		Time & Depth (feet)	Graphic Log	nscs	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (ppm)	Depth (feet)		Borehole Backfill	
<u>щ </u>	M 304_STANTEC ENVIRO 101613 FIG_BORING_LOGS_SANTA_ANA_20191002.GPJ STANTECUS1342.GDT 10/8/19			SM SM SM	Description Native soil, minor vegetation and brush, cleared/hand augered to 8' bgs SM; SILTY SAND WITH GRAVEL, 2.5Y 4/4 olive brown, ~55% fine-grained, ~25% gravel, subrounded to subangular, ~20% fines, dense, dry, gabbro, quartz, trace medium-grained sand, poorly graded Same as above ML; SILT WITH SAND, 5Y 4/2 olive gray, ~15% subrounded to subangular fine-grained sand, ~85% fines, firm, moist, mica, slow dilatancy SM; SILTY SAND, GLEY-1 3/N (3/) very dark gray, ~70% fine-grained, subrounded to subangular, fine-grained to subangular, ~30% fines, dense, moist, slight hydrocarbon odor, quartz, trace feldspar, poorly graded Same as above, wet, strong hydrocarbon odor Borehole terminated at 15 feet bgs. Groundwater sample collected at 11:40		10:35 B3-5 10:50 B3-15	Record Record Record (fee (fee (fee (fee (fee (fee (fee (fe	Blo	5.4 161.7	± a j j = a j j = a		- Type I/II Portland Cement Grout	

	PROJECT:	7-Elev	/en St	ore No. 38384 (1042163)	WELL / PROBEHOLE / BOREHOLE NO: Stantec									
		1: 821 I NUMB	Euclid	Street, Santa Ana, CA 85850892	B	4				PAG		Stanlet		
ŀ	DRILLING	/ INST	ALLA	TION:	NC	RTHING (ft):				EASTI	NG (ft):			
	STARTED:	9/26/	2019	COMPLETED: 9/26/2019	LA	TITUDE:				LONG	ITUDE:			
	DRILLING	COMP	ANY:	ABC Liovin Drilling		OUND ELEV (ft): N/A	0/26/4	0	TOC ELEV (ft): N/A				
	DRILLING	EQUIF	MEN.	T: Geoprobe Rig 6712 DT	ST	ATIC DTW (it).	13.5	9/26/1 9/26/1	9 9	WELL DEPTH (π): 13.0 WELL DEPTH (ft): N/A BOREHOLE DIAM. (in): 2.25				
	DRILLING	METH	OD: D	irect Push Technology	WE	ELL CASING D	IAM. (ir	n): N/A	•					
Į	SAMPLING	EQU	IPME	NT: Acetate Liners / Slide Hammer	LO	GGED BY: G.	Pankra	atz		CHEC	KED BY: P.	McConnell		
ſ	مر د م	<u>i</u>	6		e		ed	t .	ace	_				
	Time Depth (feet)	Graph Log	USC	Description	Samp	Time Sample ID	Measur Recov (feet)	Blow Coun	Headsp PID (ppm	Depth (feet)		Borehole Backfill		
	-		SM	SM; SILTY SAND, 2.5Y 6/2 light brownish gray, ~85% fine-grained, subrounded to subangular, ~15% fines, medium dense, dry,						-				
	 5			quartz, feldspar, poorly graded		11:19 B4-5	8		3.7					
GPJ STANTECUS1342.GDT 10/8/19	 10		SP ML SM	SP; POORLY GRADED SAND, 5Y 7/1 light gray, ~95% fine-grained, subrounded to subangular, loose, dry, lensed (~1-2 inch silt lenses), quartz, feldspar, trace fines (~5%) ML; SILT WITH SAND, 2.5Y 4/3 olive brown, ~20% subrounded to subangular fine-grained sand, ~80% fines, dense, moist, iron-oxide staining, mica, slow dilatancy SM; SILTY SAND, 5Y 5/2 olive gray, ~80% fine-grained, subrounded to subangular,		11:30 B4-10	2		10.7			← Type I/II Portland Cement Grout		
SANTA_ANA_20191002	_		ML	~20% fines, dense, moist, quartz, relospar, poorly graded ML; SANDY SILT, 5Y 4/2 olive gray, ~30% subrounded to subangular fine-grained sand, ~70% fines, firm, moist, slow dilatancy			5			₹ - - -				
ENVIRO 101613 FIG_BORING_LOGS	 15 		SM	SM; SILTY SAND, 5Y 4/2 olive gray, ~70% fine-grained, subrounded to subangular, ~30% fines, dense, wet, quartz, feldspar, trace mica, poorly graded Borehole terminated at 15 feet bgs. Groundwater sample collected at 12:00		11:32 B4-15			9.9	- 15				
GEO FORM 304_STANTEC	_									-	-			

PROJEC	T: 7-Ele	ven St	ore No. 38384 (1042163)	WELL / PROBEHOLE / BOREHOLE NO: Stantec									
	N: 821		Street, Santa Ana, CA	B!	5				PAGE 1 OF 1				
			TION	NO	RTHING (ft):				EASTI	<u>NG (ft):</u>			
STARTE): 9/26	/2019	COMPLETED: 9/26/2019	LAT	ITUDE:				LONG	ITUDE:			
DRILLING	G COMF	PANY:	ABC Liovin Drilling	GR		ft): N/A	00/40						
DRILLING	EQUIF	MEN	T: Geoprobe Rig 6712 DT			13 9/ 12 9/	26/19		BOREHOLE DEPTH (ft): 15.0 WELL DEPTH (ft): N/A				
DRILLING	METH	OD: D	Pirect Push Technology	WE	LL CASING D	IAM. (ir	1): N/A		WELL DEPTH (ft): N/A BOREHOLE DIAM. (in): 2.25				
SAMPLIN	G EQU		NT: Acetate Liners / Slide Hammer	LOC	GGED BY: G.	Pankra	átz		CHEC	KED BY: P	McConnell		
Time & Depth (feet)	Graphic Log	nscs	Description	Sample	Time Sample ID	feasured Recov. (feet)	Blow Count	eadspace PID (ppm)	Depth (feet)		Borehole Backfill		
		SM	Native soil, minor vegetation and brush, cleared/hand augered to 8' bgs SM; SILTY SAND, 2.5Y 4/4 olive brown, ~60% fine-grained, subrounded, ~40% fines,					<u> </u>	-		 Native Soil 		
5			medium dense, moist, trace gravel, trace plant roots, poorly graded		11:57 B5-5	8		4.8	- - 5-				
.NA_20191002.GPJ STANTECUS1342.GDT 10/8/19 01		SP SM/ ML	SP; POORLY GRADED SAND, 5Y 7/1 light gray, ~100% fine-grained, subrounded to subangular, loose, dry, iron-oxide staining, lensed (~1-2 inch silt lenses), quartz, feldspar SM/ML; SILTY SAND TO SANDY SILT, 5Y 5/2 olive gray, ~30% - 70% fines (top to bottom), ~30% - 70% subrounded to subangular fine-grained sand (top to bottom), dense to stiff, moist, mica, poorly graded before gradational change to sandy silt		12:49 B5-10	2		3.2	- - - 10-		 Type I/II Portland Cement Grout 		
D FORM 304_STANTEC ENVIRO 101613 FIG_BORING_LOGS_SANTA_AI 1			Same as above, wet Borehole terminated at 15 feet bgs. Groundwater sample collected at 13:05		12:51 B5-15			3.6	∑ - - 15- - - -				

DEFINITION OF TERMS

	PRIMARY DIVISIO	DNS	GRAPHIC SYMBOL	GROUP SYMBOL	SECONDARY DIVISION
		Clean Gravels (Less Than 5%		GW	Well graded gravels, gravel-sand mixtures, little or no fines.
ο ja	GRAVELS More Than Half	Fines)		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
O SOILS al Is Large s Size	Fraction Is Larger Than No. 4 Sieve	Gravel With		GM	Silty gravels, gravel-sand-clay mixtures, non-plastic fines.
RAINEI Of Materi 200 Sieve		Fines		GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.
COARSE G More Than Half Than No. 1	SANDS	Clean Sands (Less Than 5%		SW	Well graded sands or gravelly sands little or no fines.
	More Than Half Of Coarse	` Fines)		SP	Poorly graded sands or gravelly sand little or no fines.
	Fraction is Smaller Than No. 4 Sieve	Sands With		SM	Silty sands, sand-silt mixtures, plasti fines.
		Fines		SC	Clayey sands, sand-clay mixtures, plastic fines.
<u>.</u>	SILTS AND) CLAYS		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands o clayey silts with slight plasticity.
OILS Is Smalle Size	Liquid Li Less Tha	mit Is n 50%		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays silty clays, lean clays.
INED S f Material 00 Sieve 8				OL	Organic silts and organic silty clays of low plasticity.
IE GRA an Half O han No. 2(SILTS AND) CLAYS		МН	Inorganic silts, micaceous or diatomaceous fine sandy or silty soil elastic silts.
FIN More Th TI	Liquid Li Greater Th	mit Is an 50%		СН	Inorganic clays of high plasticity, fat clays.
				ОН	Organic clays of medium to high plasticity, organic silts.
	HIGHLY ORGANIC S	OILS	77 77 77 77 7 77 77 77 7 77 77 77	PT	Peat and other highly organic soils.

Stantec

BOREHOLE/WELL LOG LEGEND

Page 1 of 3

	Description	GRAPHIC SYMBOL	Description
	GP-GC - Poorly graded Gravel with Clay		Fill
	GW-GM - Well graded Gravel with Silt		Gypsum
6-0-0	OLSH - High plasticity organic Clay or Silt with shells		Igneous
	SM-SC - Silty Sand with Clay		Limestone
	SP-SM - Poorly graded Sand with Silt		Metamorphic
	SW-SC - Well graded Sand with Clay		Sandstone
	SW-SM - Well graded Sand with Silt		Shale
	Basalt	<pre>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</pre>	Siltstone
	Bedrock		тш
	Boulders and Cobbles or Conglomerate	<u>16 70 70 70</u> 16 70 70 70	Top Soil
	Breccia		
	Chalk		
	Claystone		
	Coal		
	Concrete		
* *	Coral		
	Decomposed Granite		
	Stantec BO	REHOLE/W Pa	/ELL LOG LEGEND ge 2 of 3

R:\cad\CaddIGIS-Forms-Legends and Standards\1-GINTlogs Library & templates\001 Borelog Color Legend.pdf

					(GRAIN SIZES								
			U.S. St	andard S	eries Sie	ve			C	lear Square Sieve Ope	enings			
		200	4	0	10		4	3	/4"	3" 12	2"			
	SILT and C	LAYS		SAN	ID			GR.	AVEL	COBBLES	BOULDERS			
			Fine	Mediu	um	Coars	e	Fine	Coarse					
	RELATIVE DE								CONSI					
Sand a	ind Gravels	Blow	/s/Foot⁺				S	ilt and Clay	/S	Strength ‡	Strength [‡] Blows/Fo			
Ve	ry Loose	0	- 4					Very Sof	t	0 - 1/4	0 - 2			
L L	_oose	5-	-10					Soft		1/4 - 1/2	2 - 4			
Med	um Dense	1 1	1-30					Firm		1/2 - 1	4 - 8			
ſ	Dense	31	1-50					Stiff		1 - 2	8 - 16			
Ver	y Dense	0	ver 50					Very Stif	Ŧ	2 - 4	16 - 32	2		
								Hard		Over 4	Over 3	2		
	GRAIN SIZE D	ISTRIBUTION						ROC		NESS/STRENGT	1			
Term	Criteria	Description					L	escriptor		Crit	eria			
Trace	0 - 5%	Minor fractio	ons for bo ned mater	th fine- a ials	nd	E	Extre	emely Hard		Core, Fragment, or e with knife or sharp p repeated heavy ham	exposure cannot be lick; can only be ch imer blows.	e scratched ipped with		
Little	6 - 10%	coarse-grai	ned mater	ials		\ \	Very	Hard		Cannot be scratched or fragment breaks v	d with knife or shar with repeated ham	p pick. Core ner blows.		
Some	11 - 15%	Minor fraction	ons for fine	e-grained	4	+	Hard			Can be scratched w (heavy pressure). He break specimen.	ith knife or sharp p eavy hammer blow	ick with difficulty required to		
With	16 - 25%	materials Suffix for mi	inor fractio	ons for o	nly	r	Mode	erately Har	d	Can be scratched wi or moderate pressur	th knife or sharp p e. Core or fragmer	ick with light nt breaks with		
-y	20-49%	fine-grained	l material,	, e.g., silt	y	r	Mode	erately Sof		Can be grooved 1/16 inch (2 mm) deep by knife or sharp pick with moderate or heavy pressure. Core or fragment breaks with light hammer blow or heavy				
						5	Soft			manual pressure. Can be grooved or g pick with light pressi	jouged easily by kr ure, can be scratch	nife or sharp ed with		
							Vani	C off		fingernail. Breaks wi pressure	ith light to moderat	e manual		
							very	Soπ		Can be readily inder fingernail, or carved manual pressure.	nted, grooved or go with a knife. Break	s with light		
+ N F	lumber of blows of pentetration test (SI	140 pound han PT) split spoon (nmer falling (ASTM D-2	g approxi 2488).	mately	30 inch	nes to	o drive a 2 i	nch O.D. (1-3/8 inch I.D.) standa	ard			
‡ (F	Inconfined compre- penetration test (AS	ssive strength ir TM D-2488), po	n tons/sq.ft ocket pene	as dete	rmined torvan	by labo e, or vis	orato sual d	ry testing or observation.	approxim	ated by the standard				
	Graphic Lo	og Symbols			Abl	brevi	iatic	ons Used	ł	Well Desi	Well Design Fill Patterns			
<u>App</u>	_ ^{oR} <u>∕rs</u> h Liquid-Pha Separated	se Hydrocarbon: Hydrocarbons	s/ Phase		Abnd A/C	Abano	done alt/Co	d			Asphalt			
	🔀 Split-Spoor	n Interval			MSL	Mean	n Sea	Level						
	Direct-Push	ı			Bent	Bento	onite				Concrete			
	L Auger				bgs	Below	v Gro	ound Surface	•		0			
	III Hand Auge	r			dia	Diamo	eter				Concrete Slurry			
	Continuous	s Core				Inche	s				Bentonite Chips			
	Sample				lb . –	Pound	d							
	🐨 🖬 Grab Samp	ble			LPH	Liquic	d-Pha	ase Hydroca	rbons		Bentonite Pellets			
	½ -inch Ny	Ion Tube			гоп GW	Grou	e oep ndwa	Jarateu Hyd ter	OUGEDOUS		Bentonite Grout			
	- Perforated	Sample Tip			HC	Hydro	ocarb	on						
	Ground Wa	ater (Initial)			ID	Interio	or Dia	ameter			Sand			
	Ground Wa	ater (Static)			mod	Mode	erate			0,000				
	 Well Desig	jn Symbol			med mod NA	Mediu Mode Not A	um erate opplic	able			Son Cuttings			
<	Centralize	er			NE NM	Not E Not P	incou leasu	intered ured ded						
Q	Sta	nte	С		B	OR	EF	IOLE	/WE Page	LL LOG 1 3 of 3	LEGENI	D		
·\cad\CaddlGIS-	Forms-Legends and S	tandards\1-GINTI	ogs Library 8	& template	s\001 Bo	orelog Co	olor Le	aend odf						



ATTACHMENT C

SOIL AND GROUNDWATER SAMPLE LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Design with community in mind

🛟 eurofins

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine 17461 Derian Ave

Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

Laboratory Job ID: 440-251186-1

Client Project/Site: 7-Eleven No. 38384 (1042163) (CA)

For:

Stantec Consulting Corp. 9665 Granite Ridge Drive Suite 220 San Diego, California 92123

Attn: Pat McConnell

Authorized for release by: 10/7/2019 8:32:43 AM

Andy Johnson, Manager of Project Management (615)301-5045 andy.johnson@testamericainc.com

Have a Question? Ask-The Expert
The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

..... Links

Review your project results through

Total Access

www.testamericainc.com

Visit us at:

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Method Summary	22
Certification Summary	23
Chain of Custody	24
Receipt Checklists	26

Sample Summary

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Job ID: 440-251186-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-251186-3	B1-15	Solid	09/26/19 09:09	09/27/19 17:55
440-251186-6	B2-15	Solid	09/26/19 10:09	09/27/19 17:55
440-251186-8	B3-10	Solid	09/26/19 10:48	09/27/19 17:55
440-251186-9	B3-15	Solid	09/26/19 10:50	09/27/19 17:55
440-251186-12	B4-15	Solid	09/26/19 11:32	09/27/19 17:55
440-251186-15	B5-15	Solid	09/26/19 12:51	09/27/19 17:55

Job ID: 440-251186-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative 440-251186-1

Comments

No additional comments.

Receipt

The samples were received on 9/27/2019 5:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 440-571433 recovered outside control limit for the following analyte: 2-Methyl-2-propanol. This analyte was biased high in the LCS and was not detected in the associated sample; therefore, the data have been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 440-571778 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 440-572014 was outside control limits for 2-Methyl-2-propanol. Sample matrix interference and/or non-homogeneity are suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Job ID: 440-251186-1

3

Qualifiers

GC/MS VOA Qualifier

Qualifier	Qualifier Description	4
*	LCS or LCSD is outside acceptance limits.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	7
CFL	Contains Free Liquid	4
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	ŏ
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	9
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	12
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	13
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	

TEQ Toxicity Equivalent Quotient (Dioxin)

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Client Sample ID: B1-15 Date Collected: 09/26/19 09:09 Date Received: 09/27/19 17:55

Job ID: 440-251186-1

Lab Sample ID: 440-251186-3 Matrix: Solid

x: Solid

Method: 8260B/CA_LUFTMS	Volatile Or	ganic Corr	pounds by G	C/MS					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.0980		mg/Kg			09/28/19 17:13	1
Surrogata	% Booovery	Qualifiar	Limito				Branarad	Applyzod	
	%Recovery	Quaimer					Prepareu	Analyzeu	
Dibromofluoromethane (Surr)	107		60 - 120					09/28/19 17:13	1
4-Bromofluorobenzene (Surr)	90		79 - 120					09/28/19 17:13	1
Toluene-d8 (Surr)	94		79 - 123					09/28/19 17:13	1
- Mathady 0200D - Malatila Orm									
Wethod: 8260B - Volatile Orga	inic Compo	unas (GC/	WS)		11.94	_	D	A	D11 E
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DIIFac
Benzene	ND		0.00196		mg/Kg			09/28/19 17:13	1
Toluene	ND		0.00196		mg/Kg			09/28/19 17:13	1
Ethylbenzene	ND		0.00196		mg/Kg			09/28/19 17:13	1
Xylenes, Total	ND		0.00392		mg/Kg			09/28/19 17:13	1
Methyl tert-butyl ether	ND		0.00490		mg/Kg			09/28/19 17:13	1
Tert-amyl methyl ether	ND		0.00490		mg/Kg			09/28/19 17:13	1
tert-Butyl alcohol (TBA)	ND	*	0.0980		mg/Kg			09/28/19 17:13	1
Diisopropyl ether	ND		0.00490		mg/Kg			09/28/19 17:13	1
Ethyl tert-butyl ether	ND		0.00490		mg/Kg			09/28/19 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		79 - 123			-		09/28/19 17:13	1
4-Bromofluorobenzene (Surr)	90		79 - 120					09/28/19 17:13	1
Dibromofluoromethane (Surr)	107		60 - 120					09/28/19 17:13	1

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Client Sample ID: B2-15 Date Collected: 09/26/19 10:09 Date Received: 09/27/19 17:55

Job ID: 440-251186-1

Lab Sample ID: 440-251186-6 Matrix: Solid

Method: 8260B/CA_LUFTMS	 Volatile Or 	ganic Con	pounds by G	C/MS					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.0973		mg/Kg			09/28/19 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		60 - 120					09/28/19 17:42	1
4-Bromofluorobenzene (Surr)	94		79 - 120					09/28/19 17:42	1
Toluene-d8 (Surr)	98		79 - 123					09/28/19 17:42	1
_ Method: 8260B - Volatile Orga	anic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00195		mg/Kg			09/28/19 17:42	1
Toluene	ND		0.00195		mg/Kg			09/28/19 17:42	1
Ethylbenzene	ND		0.00195		mg/Kg			09/28/19 17:42	1
Xylenes, Total	ND		0.00389		mg/Kg			09/28/19 17:42	1
Methyl tert-butyl ether	ND		0.00486		mg/Kg			09/28/19 17:42	1
Tert-amyl methyl ether	ND		0.00486		mg/Kg			09/28/19 17:42	1
tert-Butyl alcohol (TBA)	ND	*	0.0973		mg/Kg			09/28/19 17:42	1
Diisopropyl ether	ND		0.00486		mg/Kg			09/28/19 17:42	1
Ethyl tert-butyl ether	ND		0.00486		mg/Kg			09/28/19 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		79 - 123					09/28/19 17:42	1
4-Bromofluorobenzene (Surr)	94		79 - 120					09/28/19 17:42	1
Dibromofluoromethane (Surr)	116		60 - 120					09/28/19 17:42	1

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Job ID: 440-251186-1

Lab Sample ID: 440-251186-8 Matrix: Solid

Date Collected: 09/26/19 10:48 Date Received: 09/27/19 17:55

Client Sample ID: B3-10

Method: 8260B/CA_LUFTMS	S - Volatile Or	ganic Corr	pounds by G	SC/MS					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	117		20.1		mg/Kg		10/01/19 17:03	10/02/19 14:32	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)			55 - 140				10/01/19 17:03	10/02/19 14:32	200
4-Bromofluorobenzene (Surr)	105		65 - 140				10/01/19 17:03	10/02/19 14:32	200
Toluene-d8 (Surr)	108		60 - 140				10/01/19 17:03	10/02/19 14:32	200
_ Method: 8260B - Volatile Or	ganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00917		mg/Kg			10/01/19 14:45	1
Toluene	ND		0.00917		mg/Kg			10/01/19 14:45	1
Ethylbenzene	0.309		0.00917		mg/Kg			10/01/19 14:45	1
Xylenes, Total	ND		0.0183		mg/Kg			10/01/19 14:45	1
Methyl tert-butyl ether	ND		0.0229		mg/Kg			10/01/19 14:45	1
Tert-amyl methyl ether	ND		0.0229		mg/Kg			10/01/19 14:45	1
tert-Butyl alcohol (TBA)	ND		0.459		mg/Kg			10/01/19 14:45	1
Diisopropyl ether	ND		0.0229		mg/Kg			10/01/19 14:45	1
Ethyl tert-butyl ether	ND		0.0229		mg/Kg			10/01/19 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	87		79 - 123					10/01/19 14:45	1
4-Bromofluorobenzene (Surr)	90		79 - 120					10/01/19 14:45	1
Dibromofluoromethane (Surr)	95		60 - 120					10/01/19 14:45	1

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Job ID: 440-251186-1

Lab Sample ID: 440-251186-9 Matrix: Solid

Date Collected: 09/26/19 10:50 Date Received: 09/27/19 17:55

Client Sample ID: B3-15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	11300		997		mg/Kg		10/01/19 15:46	10/02/19 16:00	10000
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		55 - 140				10/01/19 15:46	10/02/19 16:00	10000
4-Bromofluorobenzene (Surr)	100		65 - 140				10/01/19 15:46	10/02/19 16:00	10000
Toluene-d8 (Surr)	112		60 - 140				10/01/19 15:46	10/02/19 16:00	10000
_ Method: 8260B - Volatile Or	manic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.35		0.399		mg/Kg		10/01/19 15:46	10/02/19 15:02	400
Toluene	1.17		0.399		mg/Kg		10/01/19 15:46	10/02/19 15:02	400
Xylenes, Total	524		0.798		mg/Kg		10/01/19 15:46	10/02/19 15:02	400
Methyl tert-butyl ether	ND		0.997		mg/Kg		10/01/19 15:46	10/02/19 15:02	400
Tert-amyl methyl ether	ND		0.997		mg/Kg		10/01/19 15:46	10/02/19 15:02	400
tert-Butyl alcohol (TBA)	ND		19.9		mg/Kg		10/01/19 15:46	10/02/19 15:02	400
Diisopropyl ether	ND		0.997		mg/Kg		10/01/19 15:46	10/02/19 15:02	400
Ethyl tert-butyl ether	ND		0.997		mg/Kg		10/01/19 15:46	10/02/19 15:02	400
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)			60 - 140				10/01/19 15:46	10/02/19 15:02	400
4-Bromofluorobenzene (Surr)	108		65 - 140				10/01/19 15:46	10/02/19 15:02	400
Dibromofluoromethane (Surr)	98		55 - 140				10/01/19 15:46	10/02/19 15:02	400
Method: 8260B - Volatile Or	manic Compo	unds (GC/	MS) - DI						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

7 mary to	noount at			-	rioparoa	7 mary 20a	Builde
Ethylbenzene	190	9.97	mg/Kg		10/01/19 15:46	10/02/19 16:00	10000
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	112	60 - 140			10/01/19 15:46	10/02/19 16:00	10000
4-Bromofluorobenzene (Surr)	100	65 - 140			10/01/19 15:46	10/02/19 16:00	10000
Dibromofluoromethane (Surr)	99	55 - 140			10/01/19 15:46	10/02/19 16:00	10000

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Job ID: 440-251186-1

5

6 7

Lab Sample ID: 440-251186-12 Matrix: Solid

Date Collected: 09/26/19 11:32 Date Received: 09/27/19 17:55

Client Sample ID: B4-15

Method: 8260B/CA_LUFTMS -	Volatile Or	ganic Com	pounds by G	SC/MS					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.101		mg/Kg			10/02/19 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		60 - 120			-		10/02/19 16:16	1
4-Bromofluorobenzene (Surr)	91		79 - 120					10/02/19 16:16	1
Toluene-d8 (Surr)	94		79 - 123					10/02/19 16:16	1
 Method: 8260B - Volatile Orga	inic Compo	unds (GC/I	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00201		mg/Kg			10/02/19 16:16	1
Toluene	ND		0.00201		mg/Kg			10/02/19 16:16	1
Ethylbenzene	ND		0.00201		mg/Kg			10/02/19 16:16	1
Xylenes, Total	ND		0.00402		mg/Kg			10/02/19 16:16	1
Methyl tert-butyl ether	ND		0.00503		mg/Kg			10/02/19 16:16	1
Tert-amyl methyl ether	ND		0.00503		mg/Kg			10/02/19 16:16	1
tert-Butyl alcohol (TBA)	ND		0.101		mg/Kg			10/02/19 16:16	1
Diisopropyl ether	ND		0.00503		mg/Kg			10/02/19 16:16	1
Ethyl tert-butyl ether	ND		0.00503		mg/Kg			10/02/19 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		79 - 123			-		10/02/19 16:16	1
4-Bromofluorobenzene (Surr)	91		79 - 120					10/02/19 16:16	1
Dibromofluoromethane (Surr)	108		60 - 120					10/02/19 16:16	1

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Job ID: 440-251186-1

Lab Sample ID: 440-251186-15 Matrix: Solid

Date Collected: 09/26/19 12:51 Date Received: 09/27/19 17:55

Client Sample ID: B5-15

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Method: 8260B/CA	LUFTMS - Volatile	Organic Compo	ounds by G	C/MS
Analyta	Ba	oult Qualifiar	BI	MDI Unit

100

93

94

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	0.182		0.0990		mg/Kg			09/28/19 19:10	1
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		60 - 120			-		09/28/19 19:10	1
4-Bromofluorobenzene (Surr)	93		79 - 120					09/28/19 19:10	1
Toluene-d8 (Surr)	100		79 - 123					09/28/19 19:10	1
Method: 8260B - Volatile Of	ganic Compo	unds (GC/	MS)	MDI	Unit	Б	Bronorod	Analyzad	
Analyte	Result	Quaimer	KL	WIDL	Unit		Frepareu	Analyzeu	DIFAC
Benzene	ND		0.00198		mg/Kg			09/28/19 19:10	1
Toluene	ND		0.00198		mg/Kg			09/28/19 19:10	1
Ethylbenzene	ND		0.00198		mg/Kg			09/28/19 19:10	1
Xylenes, Total	ND		0.00396		mg/Kg			09/28/19 19:10	1
Methyl tert-butyl ether	ND		0.00495		mg/Kg			09/28/19 19:10	1
Tert-amyl methyl ether	ND		0.00495		mg/Kg			09/28/19 19:10	1
tert-Butyl alcohol (TBA)	ND	*	0.0990		mg/Kg			09/28/19 19:10	1
Diisopropyl ether	ND		0.00495		mg/Kg			09/28/19 19:10	1
Ethyl tert-butyl ether	ND		0.00495		mg/Kg			09/28/19 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

79 - 123

79 - 120

60 - 120

09/28/19 19:10

09/28/19 19:10

09/28/19 19:10

1

1

RL

0.00200

0.00200

0.00200

0.00400

0.00500

0.00500

0.00500

0.00500

Limits

79 - 123

79 - 120

60 - 120

0.100

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Lab Sample ID: MB 440-571433/4

Analysis Batch: 571433

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Methyl tert-butyl ether

Tert-amyl methyl ether

tert-Butyl alcohol (TBA)

Diisopropyl ether

Surrogate

Ethyl tert-butyl ether

Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

MB MB

ND

ND

ND

ND

ND

ND

ND

ND

ND

99

102

109

%Recovery

MB MB

Qualifier

Result Qualifier

Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

09/28/19 09:23

09/28/19 09:23

09/28/19 09:23

09/28/19 09:23

09/28/19 09:23

09/28/19 09:23

09/28/19 09:23

09/28/19 09:23

09/28/19 09:23

Analyzed

09/28/19 09:23

09/28/19 09:23

Prepared

Prepared

D

5

1

1

1

1

1

Dil Fac

09/28/19 09:23 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 571433

Lab Sample ID: LCS 440-571433/5

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0200	0.02112		mg/Kg		106	65 - 120	
Toluene	0.0200	0.02098		mg/Kg		105	70 ₋ 125	
Ethylbenzene	0.0200	0.02062		mg/Kg		103	70 - 125	
Xylenes, Total	0.0400	0.04075		mg/Kg		102	70 - 125	
Methyl tert-butyl ether	0.0200	0.01864		mg/Kg		93	60 - 140	
Tert-amyl methyl ether	0.0200	0.01907		mg/Kg		95	60 - 145	
tert-Butyl alcohol (TBA)	0.200	0.3280	*	mg/Kg		164	70 ₋ 135	
Diisopropyl ether	0.0200	0.02009		mg/Kg		100	60 - 140	
Ethyl tert-butyl ether	0.0200	0.01816		mg/Kg		91	60 - 140	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	97		79 - 123
4-Bromofluorobenzene (Surr)	97		79 - 120
Dibromofluoromethane (Surr)	104		60 - 120

Lab Sample ID: MB 440-571778/4 Matrix: Solid Analysis Batch: 571778

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			10/01/19 09:22	1
Toluene	ND		0.00200		mg/Kg			10/01/19 09:22	1
Ethylbenzene	ND		0.00200		mg/Kg			10/01/19 09:22	1
Xylenes, Total	ND		0.00400		mg/Kg			10/01/19 09:22	1
Methyl tert-butyl ether	ND		0.00500		mg/Kg			10/01/19 09:22	1
Tert-amyl methyl ether	ND		0.00500		mg/Kg			10/01/19 09:22	1
tert-Butyl alcohol (TBA)	ND		0.100		mg/Kg			10/01/19 09:22	1
Diisopropyl ether	ND		0.00500		mg/Kg			10/01/19 09:22	1

Eurofins TestAmerica, Irvine

Client Sample ID: Method Blank

Prep Type: Total/NA

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MB MB

MB MB

Qualifier

ND

93

88

113

%Recovery

Result Qualifier

QC Sample Results

RL

0.00500

l imits

79 - 123

79 - 120

60 - 120

MDL Unit

mg/Kg

D

Prepared

Prepared

Job ID: 440-251186-1

Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

10/01/19 09:22

Analyzed

10/01/19 09:22

10/01/19 09:22

10/01/19 09:22

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 440-571778/5 Matrix: Solid

Lab Sample ID: MB 440-571778/4

Analysis Batch: 571778

Matrix: Solid

Ethyl tert-butyl ether

Toluene-d8 (Surr)

Analyte

Surrogate

Analysis Batch: 571778

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0200	0.02321		mg/Kg		116	65 - 120	
Toluene	0.0200	0.02114		mg/Kg		106	70 - 125	
Ethylbenzene	0.0200	0.01987		mg/Kg		99	70 - 125	
Xylenes, Total	0.0400	0.03876		mg/Kg		97	70 - 125	
Methyl tert-butyl ether	0.0200	0.02113		mg/Kg		106	60 - 140	
Tert-amyl methyl ether	0.0200	0.02040		mg/Kg		102	60 - 145	
tert-Butyl alcohol (TBA)	0.200	0.1891		mg/Kg		95	70 - 135	
Diisopropyl ether	0.0200	0.02192		mg/Kg		110	60 - 140	
Ethyl tert-butyl ether	0.0200	0.02083		mg/Kg		104	60 - 140	

	LCS	LCS			
Surrogate	%Recovery	Qualifier	Limits		
Toluene-d8 (Surr)	93		79 - 123		
4-Bromofluorobenzene (Surr)	92		79 - 120		
Dibromofluoromethane (Surr)	106		60 - 120		

Lab Sample ID: MB 440-572014/4 Matrix: Solid Analysis Batch: 572014

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 10/02/19 08:27 Benzene ND 0.00200 mg/Kg 1 Toluene ND 0.00200 mg/Kg 10/02/19 08:27 1 Ethylbenzene ND 0.00200 mg/Kg 10/02/19 08:27 1 ND Xylenes, Total 0.00400 mg/Kg 10/02/19 08:27 1 Methyl tert-butyl ether ND 0.00500 mg/Kg 10/02/19 08:27 1 Tert-amyl methyl ether ND 0.00500 mg/Kg 10/02/19 08:27 1 tert-Butyl alcohol (TBA) ND 0.100 mg/Kg 10/02/19 08:27 1 Diisopropyl ether ND 0.00500 mg/Kg 10/02/19 08:27 1 Ethyl tert-butyl ether ND 0.00500 mg/Kg 10/02/19 08:27 1 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Toluene-d8 (Surr) 94 79 - 123 10/02/19 08:27 1 4-Bromofluorobenzene (Surr) 95 79 - 120 10/02/19 08:27 1 Dibromofluoromethane (Surr) 99 10/02/19 08:27 60 - 120 1

Dil Fac

Dil Fac

1

1

1

1

Client Sample ID: Method Blank Prep Type: Total/NA

10/7/2019

QC Sample Results

Spike

Added

0.0200

0.0200

0.0200

0.0400

0.0200

0.0200

0.200

0.0200

0.0200

Limits

79 - 123

79 - 120

60 - 120

LCS LCS

0.02288

0.01983

0.01964

0.04006

0.02280

0.02452

0.1849

0.02036

0.02250

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

LCS LCS

90

99

101

Qualifier

106

108

%Recovery

Lab Sample ID: LCS 440-572014/5 Matrix: Solid Analysis Batch: 572014

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Diisopropyl ether

Surrogate Toluene-d8 (Surr)

Ethyl tert-butyl ether

Methyl tert-butyl ether

Tert-amyl methyl ether

tert-Butyl alcohol (TBA)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Lab Control Sample Prep Type: Total/NA

%Rec

114

99

98

100

114

123

92

D

%Rec.

Limits

65 - 120

70 - 125

70 - 125

70 - 125

60 - 140

60 - 145

70 - 135

102	60 - 140	
113	60 - 140	

Client Sample ID: Method Blank

Prep Type: Total/NA

Lab Sample ID: MB 440-572039/5 Matrix: Solid Analysis Batch: 572039

MB MB **Result Qualifier** RL MDL Unit D Dil Fac Analyte Prepared Analyzed Benzene ND 0.100 mg/Kg 10/02/19 10:10 100 ND mg/Kg Toluene 0.100 10/02/19 10:10 100 Ethylbenzene ND 0.100 mg/Kg 10/02/19 10:10 100 Xylenes, Total ND 0.200 mg/Kg 10/02/19 10:10 100 Methyl tert-butyl ether ND 0.250 mg/Kg 10/02/19 10:10 100 Tert-amyl methyl ether ND 0.250 mg/Kg 10/02/19 10:10 100 ND 100 tert-Butyl alcohol (TBA) 5.00 mg/Kg 10/02/19 10:10 0.250 mg/Kg Diisopropyl ether ND 10/02/19 10:10 100 Ethyl tert-butyl ether ND 0.250 mg/Kg 10/02/19 10:10 100 MB MB %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac Toluene-d8 (Surr) 113 60 - 140 10/02/19 10:10 100

65 - 140

55 - 140

Lab Sample ID: LCS 440-572039/6
Matrix: Solid
Analysis Batch: 572039

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.8947		mg/Kg		89	65 - 120	
Toluene	1.00	0.9134		mg/Kg		91	80 - 120	
Ethylbenzene	1.00	0.9576		mg/Kg		96	80 - 120	
Xylenes, Total	2.00	2.012		mg/Kg		101	70 - 125	
Methyl tert-butyl ether	1.00	0.8578		mg/Kg		86	55 - 145	
Tert-amyl methyl ether	1.00	1.025		mg/Kg		103	60 - 145	
tert-Butyl alcohol (TBA)	10.0	8.567		mg/Kg		86	65 - 140	
Diisopropyl ether	1.00	0.9503		mg/Kg		95	60 - 140	

Eurofins TestAmerica, Irvine

10/02/19 10:10

10/02/19 10:10

100

QC Sample Results

Job ID: 440-251186-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440 Matrix: Solid	-572039/6					Clier	nt Sai	nple ID	: Lab Cor Prep Ty	ntrol Sa pe: Tot	ample al/NA
Analysis Datch. 372033			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethyl tert-butyl ether			1.00	0.9774		mg/Kg		98	60 - 140		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
Toluene-d8 (Surr)	107		60 - 140								
4-Bromofluorobenzene (Surr)	107		65 - 140								
Dibromofluoromethane (Surr)	106		55 - 140								
Matrix: Solid Analysis Batch: 572039			Snike						Prep Ty	pe: Tot	
Analyte				Result	Qualifier	Unit	п	%Rec	/intec.	RPD	Limit
Benzene			1 00	0 9019		ma/Ka		90	65 - 120	1	20
Toluene			1 00	0.9582		ma/Ka		96	80 - 120	5	20
Fthylbenzene			1 00	0 9977		ma/Ka		100	80_120	4	20
Xvlenes Total			2 00	2 048		ma/Ka		102	70_125	2	20
Methyl tert-butyl ether			1 00	0 8556		ma/Ka		86	55 - 145	0	_0 25
Tert-amyl methyl ether			1.00	0.9946		ma/Ka		99	60 - 145	3	25
tert-Butyl alcohol (TBA)			10.0	10 25		ma/Ka		102	65 - 140	18	20
			1 00	0 9927		ma/Ka		99	60_140	4	20

1.00

0.9752

mg/Kg

98

60 - 140

0

20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	107		60 - 140
4-Bromofluorobenzene (Surr)	107		65 - 140
Dibromofluoromethane (Surr)	106		55 - 140

Ethyl tert-butyl ether

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-57143 Matrix: Solid	34/4							Clie	ent Sam	ple ID: Method Prep Type: To	l Blank otal/NA
	МВ	мв									
Analyte	Result	Qualifier	RL		MDL	Unit	D	Ρ	repared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.100		î	mg/Kg				09/28/19 09:23	1
	МВ	MB									
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		60 - 120							09/28/19 09:23	1
4-Bromofluorobenzene (Surr)	102		79 - 120							09/28/19 09:23	1
Toluene-d8 (Surr)	99		79 - 123							09/28/19 09:23	1
Lab Sample ID: LCS 440-5714	134/1003						Client	Sai	mple ID	: Lab Control S	Sample
Matrix: Solid										Prep Type: To	otal/NA
Analysis Batch: 571434											
			Spike	LCS	LCS					%Rec.	
Analyte			Added	Result	Quali	ifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons			1.00	0.8959			mg/Kg		90	60 - 135	
(C4-C12)											

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Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 440-571434/1003 Client Sample ID: Lab Control Sample

MB MB

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	97		60 - 120
4-Bromofluorobenzene (Surr)	94		79 - 120
Toluene-d8 (Surr)	99		79 - 123

Lab Sample ID: LCSD 440-571434/6 Matrix: Solid Analysis Batch: 571434

Matrix: Solid

Analysis Batch: 571434

Analysis Batch: 5/1434									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Volatile Fuel Hydrocarbons	1.00	0.9113		mg/Kg		91	60 - 135	2	20
(C4-C12)									

QC Sample Results

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	104		60 - 120
4-Bromofluorobenzene (Surr)	96		79 - 120
Toluene-d8 (Surr)	101		79 - 123

Lab Sample ID: MB 440-572015/4 Matrix: Solid

Analysis Batch: 572015

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.100		mg/Kg			10/02/19 08:27	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		60 - 120					10/02/19 08:27	1
4-Bromofluorobenzene (Surr)	95		79 - 120					10/02/19 08:27	1
Toluene-d8 (Surr)	94		79 - 123					10/02/19 08:27	1

Lab Sample ID: LCS 440-572015/1003 Matrix: Solid

Analysis Batch: 572015

-			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons (C4-C12)			1.00	0.9040		mg/Kg		90	60 - 135	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
Dibromofluoromethane (Surr)	92		60 - 120							
4-Bromofluorobenzene (Surr)	99		79 - 120							
Toluene-d8 (Surr)	92		79 - 123							

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

7

13

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 440)-572015/6							C	lient Sa	mple	ID: La	ab Control	Samp	le Dup
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 572015				Cuilco			1.001	`				0/ Dee		000
Analyte				Spike Added		Result	Oual) ifior	Unit	п	%Rec	limite	RPL	Limit
				1 00		0.8690	Quai		ma/Ka		87	60 - 135		20
(C4-C12)				1.00		0.0000			ing/itg		07	00-100		20
	1000	100	20											
Surrogate	%Recovery	Quá	lifier	l imits										
Dibromofluoromethane (Surr)	102			60 - 120	-									
4-Bromofluorobenzene (Surr)	93			79 - 120										
Toluene-d8 (Surr)	97			79 - 123										
Lab Sample ID: MB 440-5	72040/5									Clie	ent Sa	mple ID: N	lethod	Blank
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 572040														
		MB	MB										-	
Analyte	Re	sult	Qualifier		RL		MDL	Unit		P	repare		zed	Dil Fac
GRU (C4-C12)	40)	ND			10.0			mg/K	9			10/02/19	10:10	100
Volatile Fuel Hydrocarbons (C4-C	12)	ND			10.0			mg/K	g			10/02/19	0.10:10	100
		MВ	MB											
Surrogate	%Reco	very	Qualifier	Lim	its					Ρ	repare	d Analy	zed	Dil Fac
Dibromofluoromethane (Surr)		108		55 -	140							10/02/19	0 10:10	100
4-Bromofluorobenzene (Surr)		106		65 -	140							10/02/19	9 10:10	100
Toluene-d8 (Surr)		113		60 -	140							10/02/19	0 10:10	100
Lab Sample ID: LCS 440.4	572040/9								Clier	+ 60	malal		ntral C	omnlo
Lab Sample ID. LCS 440-	5/2040/6								Ciler	it Sa	inple i	D. Lab Co Drop Ty		
Analysis Batch: 572040												Flepily	pe. It	
Analysis Datch. 372040				Spike		LCS	LCS					%Rec.		
Analyte				Added		Result	Qual	ifier	Unit	D	%Rec	Limits		
GRO (C4-C12)				50.0		33.98			mg/Kg		68	60 - 130		
Volatile Fuel Hydrocarbons				50.0		33.98			mg/Kg		68	60 - 130		
(C4-C12)														
	LCS	LCS	5											
Surrogate	%Recovery	Qua	lifier	Limits										
Dibromofluoromethane (Surr)	102			55 - 140	-									
4-Bromofluorobenzene (Surr)	104			65 - 140										
Toluene-d8 (Surr)	111			60 - 140										
<u>с</u> Г													_	
Lab Sample ID: LCSD 440	0-572040/9							C	lient Sa	mple	ID: La	ab Control	Samp	le Dup
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 572040				Spike			1.00	-				% Dee		000
Analyte				e hahbΔ		Result	Qual	, ifier	Unit	п	%Ror	/orcec.	RÞD	imit
GRO (C4-C12)				50 0		34 51	Gudi		ma/Ka		69	60 - 130	2	25
Volatile Fuel Hydrocarbons				50.0		34.51			mg/Ka		69	60 - 130	2	25
(C4-C12)									5.5				_	_0
	1000	100	20											
Surrogate	%Recovery	Que	lifier	Limits										
	,,													

%Recovery	Qualifier	Limits
103		55 - 140
105		65 - 140
112		60 - 140
	%Recovery 103 105 112	%Recovery Qualifier 103 105 112

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QC Association Summary

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

GC/MS VOA

Analysis Batch: 571433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
440-251186-3	B1-15	Total/NA	Solid	8260B
440-251186-6	B2-15	Total/NA	Solid	8260B
440-251186-15	B5-15	Total/NA	Solid	8260B
MB 440-571433/4	Method Blank	Total/NA	Solid	8260B
LCS 440-571433/5	Lab Control Sample	Total/NA	Solid	8260B

Analysis Batch: 571434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batc	h
440-251186-3	B1-15	Total/NA	Solid	8260B/CA_LUFT	
440-251186-6	B2-15	Total/NA	Solid	8260B/CA_LUFT MS	
440-251186-15	B5-15	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-571434/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-571434/1003	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-571434/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	- i

Analysis Batch: 571778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-251186-8	B3-10	Total/NA	Solid	8260B	
MB 440-571778/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-571778/5	Lab Control Sample	Total/NA	Solid	8260B	

Prep Batch: 571898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-251186-8	B3-10	Total/NA	Solid	5030B	
440-251186-9	B3-15	Total/NA	Solid	5030B	
440-251186-9 - DL	B3-15	Total/NA	Solid	5030B	

Analysis Batch: 572014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-251186-12	B4-15	Total/NA	Solid	8260B	
MB 440-572014/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-572014/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 572015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-251186-12	B4-15	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-572015/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-572015/1003	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-572015/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 572039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-251186-9	B3-15	Total/NA	Solid	8260B	571898
440-251186-9 - DL	B3-15	Total/NA	Solid	8260B	571898

Eurofins TestAmerica, Irvine

QC Association Summary

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

GC/MS VOA (Continued)

Analysis Batch: 572039 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-572039/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-572039/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-572039/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 572040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-251186-8	B3-10	Total/NA	Solid	8260B/CA_LUFT MS	571898
440-251186-9	B3-15	Total/NA	Solid	8260B/CA_LUFT MS	571898
MB 440-572040/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-572040/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 440-572040/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Job ID: 440-251186-1

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Client Sample ID: B1-15 Date Collected: 09/26/19 09:09 Date Received: 09/27/19 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analvst	Lab
Total/NA	Analysis	8260B		1	5.1 g	10 mL	571433	09/28/19 17:13	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	5.1 g	10 mL	571434	09/28/19 17:13	AYL	TAL IRV

Client Sample ID: B2-15 Date Collected: 09/26/19 10:09 Date Received: 09/27/19 17:55

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260B	Run	Dil Factor	Initial Amount 5.14 g	Final Amount 10 mL	Batch Number 571433	Prepared or Analyzed 09/28/19 17:42	Analyst AYL	Lab TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	5.14 g	10 mL	571434	09/28/19 17:42	AYL	TAL IRV

Client Sample ID: B3-10 Date Collected: 09/26/19 10:48 Date Received: 09/27/19 17:55

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260B	Run	Dil Factor	Initial Amount 1.09 g	Final Amount 10 mL	Batch Number 571778	Prepared or Analyzed 10/01/19 14:45	Analyst AYL	Lab TAL IRV
Total/NA	Prep	5030B			9.97 g	10 mL	571898	10/01/19 17:03	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		200	10 mL	10 mL	572040	10/02/19 14:32	AYL	TAL IRV

Client Sample ID: B3-15 Date Collected: 09/26/19 10:50 Date Received: 09/27/19 17:55

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.03 g	10 mL	571898	10/01/19 15:46	AYL	TAL IRV
Total/NA	Analysis	8260B		400	10 mL	10 mL	572039	10/02/19 15:02	AYL	TAL IRV
Total/NA	Prep	5030B	DL		10.03 g	10 mL	571898	10/01/19 15:46	AYL	TAL IRV
Total/NA	Analysis	8260B	DL	10000	10 mL	10 mL	572039	10/02/19 16:00	AYL	TAL IRV
Total/NA	Prep	5030B			10.03 g	10 mL	571898	10/01/19 15:46	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		10000	10 mL	10 mL	572040	10/02/19 16:00	AYL	TAL IRV

Client Sample ID: B4-15 Date Collected: 09/26/19 11:32 Date Received: 09/27/19 17:55

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4.97 g	10 mL	572014	10/02/19 16:16	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	4.97 g	10 mL	572015	10/02/19 16:16	WC	TAL IRV

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Lab Sample ID: 440-251186-3 Matrix: Solid

Lab Sample ID: 440-251186-6

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 440-251186-8 Matrix: Solid

Lab Sample ID: 440-251186-9

Lab Sample ID: 440-251186-12

1:

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA) Job ID: 440-251186-1

Matrix: Solid

5 6

9

Lab Sample ID: 440-251186-15

Client Sample ID: B5-15 Date Collected: 09/26/19 12:51 Date Received: 09/27/19 17:55

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	571433	09/28/19 19:10	AYL	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	5.05 g	10 mL	571434	09/28/19 19:10	AYL	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Eurofins TestAmerica, Irvine

Method Summary

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

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Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTM S	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Accreditation/Certification Summary

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163) (CA)

Job ID: 440-251186-1

Laboratory: Eurofins TestAmerica, Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

AlaskaSiArizonaSiCaliforniaL/CaliforniaL/CaliforniaDCaliforniaSiGuamSiHawaiiSiHawaiiSiKansasNNevadaSi	tate tate A Cty Sanitation Districts os Angeles County Sanitation districts tate tate tate tate tate Program	CA01531 AZ0671 10256 10256 2706 19-005R CA01531 N/A	06-30-20 10-14-19 06-30-20 06-30-20 06-30-20 01-23-20 01-29-20 01-29-20	
ArizonaSiCaliforniaLaCaliforniaLaCaliforniaDCaliforniaSiGuamSiHawaiiSiHawaiiSiKansasNNevariaSi	atate A Cty Sanitation Districts os Angeles County Sanitation Districts date date date date Program IELAP	AZ0671 10256 10256 2706 19-005R CA01531 N/A	10-14-19 06-30-20 06-30-20 06-30-20 01-23-20 01-29-20 01-29-20	
California LA California La D California Si Guam Si Hawaii Si Hawaii Si Kansas N Nevada Si	A Cty Sanitation Districts os Angeles County Sanitation bistricts itate itate itate itate Program IELAP	10256 10256 2706 19-005R CA01531 N/A	06-30-20 06-30-20 06-30-20 01-23-20 01-29-20 01-29-20	
California Lo D California Si Guam Si Hawaii Si Hawaii Si Kansas N Nevada Si	os Angeles County Sanitation listricts itate itate itate rtate Program IELAP	10256 2706 19-005R CA01531 N/A	06-30-20 06-30-20 01-23-20 01-29-20 01-29-20	
CaliforniaSiGuamSiHawaiiSiHawaiiSiKansasNNevadaSi	itate itate itate Program IELAP	2706 19-005R CA01531 N/A	06-30-20 01-23-20 01-29-20 01-29-20	
GuamSiHawaiiSiHawaiiSiKansasNNevadaSi	itate itate itate Program IELAP	19-005R CA01531 N/A	01-23-20 01-29-20 01-29-20	
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Hawaii Si Kansas N Nevada Si	itate Program IELAP	N/A	01-29-20	
Kansas N Nevada Si	IELAP			
Nevada		E-10420	07-31-20	
	itate	CA015312020-2	07-31-20	
New Mexico Si	itate	CA01531	01-29-20	
New Mexico Si	itate Program	N/A	01-29-20	
Oregon N	IELAP	4028 - 006	01-29-20	
US Fish & Wildlife U	IS Federal Programs	058448	07-31-20	
USDA U	IS Federal Programs	P330-18-00214	07-09-21	
Washington Si	tate Program	C900	09-03-19 *	

Authority	Program	Identification Number	Expiration Date
California	State Program	2938	06-30-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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2960 Foster Creighton Drive Nashvila TN 37204

Chain of Custody Record

TestAmerica

Phone (615) 726-0177 Fax (615) 726-3404	-												2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·
Client Information	Sampler Garrett Pankral	Ы		Lab P Jimn	M ny Hucka	aba		<u></u>	Camer Tracki	ng No(s)	ŏ	DC No		
Client Contact Pat McConneil	Phone 562-537-7368			E-Mai Jimn	+ 	<u>iba@testa</u>	nericainc c	Eos			a.			
Company Stantec Consulting Services Inc							Analy	ysis Requ	lested		Pr.	#0		
Address 9665 Granite Ridge Drive, Suite 220	Due Date Request	:pe;										eservation Co	des.	
City San Diego	TAT Requested (d	ays):									< 0 U	- HCL - NaOH - Zn Acetate	M - Hexane N - None O - AsNaO2	
state. Zp CA, 92123	1	Stand	lard) () () () () () () () () () () () () ()	- Nitric Acid - NaHSO4	Q - Na2045 Q - Na203	
Phone 958-633-4222	PO# NON ENFOS, I	nvoice Stan	tec AP/cc P	McConneil	(•						гОї	- MeOH - Amchlor - Ascorbic Acid	R - Na2S2SO3 S - H2SO4 T - TSP Podec	-
email Pat McConnell@stantec.com	#OM			-	No) or Nc						ŝ	fore DI Water	U - Acetone V - MCAA	anjuala
^{or} oject Name 2-Eleven Store No 38384 (1042163)	Project # 185850892.800				98 OL) 9 (Xes	0928) s					renist × ~	- EDTA - EDA	W - ph 4-5 Z - other (speci	l()
site 321 North Euclid Street, Santa Ana, CA	\$\$OW#				x) as idmes	IE\OXÀ					oş cou	her:		
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			Preserva	tion Code:	Ķ				//////////////////////////////////////			special	Istructions/N	ote:
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Chain of Custody Record

TestAmerica

following B5 -5 B5 -10 Analyze the following N - None O - AsNaciO2 P - Na2C045 Q - Na2C03 G - Na2C3203 S - N22C3203 S - N22C4 T - TSP Dodecahydrate V - Accone V - Accone V - Accone V - ph 4-5 10 B4-15 B5-15 Compart - UN Special Instructions/Note: Z - other (specify) Transon SSH MILZ LAND 82-5 84-5 82-10 84-10 Months Hexane B3-5 B3-10 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Careturn To Client Disposal By Lab
Careturn To Client Archive For Mont
Special Instructions/QC Requirements NO EDF REQUIRED Hold the Samples reservation Codes BI-15 B2-15 B2-15 Samples 111 Ņ H - Ascorbic Acid A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor I - tce J - DI Water K - EDTA L - EDA 01-18 **BI-5** đ SOC No [°]в́М Date/Tume Date/Tume # Total Number of containers -**** **** *** ---••• ÷ * ~ 5 *-· ••• Method of Shipment Carrier Tracking No(s) 3 Analysis Requested 24 Ľ marks σ Lab PM Jimmy Huckaba E-Mail Jimmy Auckaba@testamericainc.com Cooler Temperature(s) °C and O eceived d panage Received by BRO/BTEX/MTBE/Oxys (8260) S TH-IM (ON 10 SOL) COM Time A A A Field Filtered Sample (Yes or No) Z Ż z z z Z Z Ν Z Z Ż z BT=Tissue, A=AIr Po # NON ENFOS, Invoice Stantec AP/cc P.McConnell Matrix (Wewater, Sesolid, Oewastafoi Preservation Code S S S ŝ S S S S Ś တ S S Radiological Type (C=comp, G=grab) 0511 51/22/2 16:00 Sample ര O Ċ Ċ Ċ ശ თ ტ ശ c Ċ ശ Standard i2'i49 12:51 Ο Sample 9/26/19 11:51 Jate/Time 9/22/19 Time Unknown Date. FAT Requested (days) **Due Date Requested:** Project # 185850892 800 SSOW# Sampler Garrett Pankratz Phone 562-537-7368 Sample Date Date/Time Date/Time #0/ Poison B 0 Skin Irritant Deliverable Requested' I, II, III, IV, Other (specify) B5 - 15 85-10 65-5 Custody Seal No.: Nashville, TN 37204 Phone (615) 726-0177 Fax (615) 726-3404 C ter 821 North Euclid Street, Santa Ana, CA 7-Eleven Store No. 38384 (1042163) 9665 Granite Ridge Drive, Suite 220 Flammable ank Possible Hazard Identification Stantec Consulting Services Inc Pat McConnell@stantec.com Empty Kit Relinquished by. in the t Custody Seals Intact: A Yes A No Client Information Sample Identification Non-Hazard Pat McConneil 858-633-4222 inquished by Inquished by linquished by Crty San Diego State, Zip CA, 92123

Client: Stantec Consulting Corp.

Login Number: 251186 List Number: 1 Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 440-251186-1

List Source: Eurofins TestAmerica, Irvine

🛟 eurofins

Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Irvine 17461 Derian Ave

Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

Laboratory Job ID: 440-251189-1 Client Project/Site: 7-Eleven No. 38384 (1042163)

For:

..... Links

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Have a Question?

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The

www.testamericainc.com

Visit us at:

Expert

Stantec Consulting Corp. 9665 Granite Ridge Drive Suite 220 San Diego, California 92123

Attn: Pat McConnell

Authorized for release by: 10/7/2019 8:33:20 AM

Andy Johnson, Manager of Project Management (615)301-5045 andy.johnson@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
440-251189-1	B1-W	Water	09/26/19 09:50	09/27/19 17:55	
440-251189-2	B2-W	Water	09/26/19 10:55	09/27/19 17:55	
440-251189-3	B3-W	Water	09/26/19 11:40	09/27/19 17:55	
440-251189-4	B4-W	Water	09/26/19 12:00	09/27/19 17:55	
440-251189-5	B5-W	Water	09/26/19 13:05	09/27/19 17:55	

Job ID: 440-251189-1

Laboratory: Eurofins TestAmerica, Irvine

Narrative

Job Narrative 440-251189-1

Comments

No additional comments.

Receipt

The samples were received on 9/27/2019 5:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method(s) 8260B: The matrix spike duplicate (MSD) recovery for analytical batch 440-571954 was outside control limit. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limit.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 440-571954 was outside control limits. Sample matrix interference is suspected.

Method(s) 8260B: The following sample was collected in a properly preserved vial; however, the sample pH of 5 was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved sample: B1-W (440-251189-1).

Method(s) 8260B: The following sample was collected in a properly preserved vial; however, the sample pH of 3 was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved sample: B2-W (440-251189-2).

Method(s) 8260B: The following samples were collected in a properly preserved vials; however, the sample pH of 7 was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: B3-W (440-251189-3), B4-W (440-251189-4) and B5-W (440-251189-5).

Method(s) 8260B/CA_LUFTMS: The following sample was collected in a properly preserved vial; however, the sample pH of 5 was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved sample: B1-W (440-251189-1).

Method(s) 8260B/CA_LUFTMS: The following sample was collected in a properly preserved vial; however, the sample pH of 3 was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved sample: B2-W (440-251189-2).

Method(s) 8260B/CA_LUFTMS: The following samples were collected in a properly preserved vials; however, the sample pH of 7 was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: B3-W (440-251189-3), B4-W (440-251189-4) and B5-W (440-251189-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163)

Glossary		2
Abbreviation	These commonly used abbreviations may or may not be present in this report.	3
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	Λ
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CNF	Contains No Free Liquid	5
DER	Duplicate Error Ratio (normalized absolute difference)	6
Dil Fac	Dilution Factor	0
DL	Detection Limit (DoD/DOE)	-
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	8
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	9
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	13
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	

TEQ Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: B1-W

Date Collected: 09/26/19 09:50

Date Received: 09/27/19 17:55

Lab Sample ID: 440-251189-1

Matrix: Water

5

Method: 8260B/CA_LUFTM	S - Volatile Or	ganic Com	npounds by C	SC/MS					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	1310		50.0		ug/L			10/01/19 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		76 - 132			-		10/01/19 21:05	1
4-Bromofluorobenzene (Surr)	104		80 - 120					10/01/19 21:05	1
Toluene-d8 (Surr)	101		80 - 128					10/01/19 21:05	1
Method: 8260B - Volatile Or	ganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.00		ug/L			10/01/19 21:05	1
Toluene	2.20		2.00		ug/L			10/01/19 21:05	1
Ethylbenzene	ND		2.00		ug/L			10/01/19 21:05	1
Xylenes, Total	12.4		2.00		ug/L			10/01/19 21:05	1
Methyl-t-Butyl Ether (MTBE)	ND		1.00		ug/L			10/01/19 21:05	1
Tert-amyl-methyl ether (TAME)	ND		5.00		ug/L			10/01/19 21:05	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			10/01/19 21:05	1
Isopropyl Ether (DIPE)	ND		5.00		ug/L			10/01/19 21:05	1
Ethyl-t-butyl ether (ETBE)	ND		5.00		ug/L			10/01/19 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)			80 - 128			-		10/01/19 21:05	1
4-Bromofluorobenzene (Surr)	104		80 - 120					10/01/19 21:05	1
Dibromofluoromethane (Surr)	99		76 - 132					10/01/19 21:05	1

Client Sample ID: B2-W

Date Collected: 09/26/19 10:55

Date Received: 09/27/19 17:55

5

6 7

3

Lab Sample ID: 440-251189-2 Matrix: Water

Method: 8260B/CA_LUFTM	S - Volatile Or	ganic Con	pounds by G	SC/MS					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50.0		ug/L			10/01/19 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		76 - 132			-		10/01/19 21:31	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/01/19 21:31	1
Toluene-d8 (Surr)	100		80 - 128					10/01/19 21:31	1
Method: 8260B - Volatile Or	ganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.00		ug/L			10/01/19 21:31	1
Toluene	ND		2.00		ug/L			10/01/19 21:31	1
Ethylbenzene	ND		2.00		ug/L			10/01/19 21:31	1
Xylenes, Total	ND		2.00		ug/L			10/01/19 21:31	1
Methyl-t-Butyl Ether (MTBE)	ND		1.00		ug/L			10/01/19 21:31	1
Tert-amyl-methyl ether (TAME)	ND		5.00		ug/L			10/01/19 21:31	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			10/01/19 21:31	1
Isopropyl Ether (DIPE)	ND		5.00		ug/L			10/01/19 21:31	1
Ethyl-t-butyl ether (ETBE)	ND		5.00		ug/L			10/01/19 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 128			-		10/01/19 21:31	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/01/19 21:31	1
Dibromofluoromethane (Surr)	103		76 - 132					10/01/19 21:31	1

Client Sample ID: B3-W

Date Collected: 09/26/19 11:40

Date Received: 09/27/19 17:55

Lab Sample ID: 440-251189-3 Matrix: Water

5

Method: 8260B/CA_LUFTM	S - Volatile Or	ganic Com	npounds by C	SC/MS	11	_	Deserved	•	D 11 F
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
GRO (C4-C12)	148000		12500		ug/L			10/01/19 21:58	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		76 - 132					10/01/19 21:58	250
4-Bromofluorobenzene (Surr)	102		80 - 120					10/01/19 21:58	250
Toluene-d8 (Surr)	102		80 - 128					10/01/19 21:58	250
_ Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1660		500		ug/L			10/01/19 21:58	250
Toluene	ND		500		ug/L			10/01/19 21:58	250
Ethylbenzene	5250		500		ug/L			10/01/19 21:58	250
Xylenes, Total	19500		500		ug/L			10/01/19 21:58	250
Methyl-t-Butyl Ether (MTBE)	ND		250		ug/L			10/01/19 21:58	250
Tert-amyl-methyl ether (TAME)	ND		1250		ug/L			10/01/19 21:58	250
tert-Butyl alcohol (TBA)	ND		2500		ug/L			10/01/19 21:58	250
Isopropyl Ether (DIPE)	ND		1250		ug/L			10/01/19 21:58	250
Ethyl-t-butyl ether (ETBE)	ND		1250		ug/L			10/01/19 21:58	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 128					10/01/19 21:58	250
4-Bromofluorobenzene (Surr)	102		80 - 120					10/01/19 21:58	250
Dibromofluoromethane (Surr)	99		76 - 132					10/01/19 21:58	250

Client Sample ID: B4-W Date Collected: 09/26/19 12:00

Date Received: 09/27/19 17:55

Lab Sample ID: 440-251189-4

Matrix: Water

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	73.0		50.0		ug/L			10/01/19 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)			76 - 132					10/01/19 22:24	1
4-Bromofluorobenzene (Surr)	101		80 - 120					10/01/19 22:24	1
Toluene-d8 (Surr)	102		80 - 128					10/01/19 22:24	1
Method: 8260B - Volatile Or	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.00		ug/L			10/01/19 22:24	1
Toluene	ND		2.00		ug/L			10/01/19 22:24	1
Ethylbenzene	3.38		2.00		ug/L			10/01/19 22:24	1
Xylenes, Total	12.8		2.00		ug/L			10/01/19 22:24	1
Methyl-t-Butyl Ether (MTBE)	ND		1.00		ug/L			10/01/19 22:24	1
Tert-amyl-methyl ether (TAME)	ND		5.00		ug/L			10/01/19 22:24	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			10/01/19 22:24	1
Isopropyl Ether (DIPE)	ND		5.00		ug/L			10/01/19 22:24	1
Ethyl-t-butyl ether (ETBE)	ND		5.00		ug/L			10/01/19 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 128					10/01/19 22:24	1
4-Bromofluorobenzene (Surr)	101		80 - 120					10/01/19 22:24	1
Dibromofluoromethane (Surr)	101		76 - 132					10/01/19 22:24	1

Client Sample ID: B5-W

Date Collected: 09/26/19 13:05

Date Received: 09/27/19 17:55

5

6 7

3

Lab Sample ID: 440-251189-5 Matrix: Water

Method: 8260B/CA LUFTM	S - Volatile Or	ganic Con	pounds by C	SC/MS					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50.0		ug/L			10/01/19 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)			76 - 132					10/01/19 22:51	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/01/19 22:51	1
Toluene-d8 (Surr)	101		80 - 128					10/01/19 22:51	1
_ Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.00		ug/L			10/01/19 22:51	1
Toluene	ND		2.00		ug/L			10/01/19 22:51	1
Ethylbenzene	ND		2.00		ug/L			10/01/19 22:51	1
Xylenes, Total	3.57		2.00		ug/L			10/01/19 22:51	1
Methyl-t-Butyl Ether (MTBE)	ND		1.00		ug/L			10/01/19 22:51	1
Tert-amyl-methyl ether (TAME)	ND		5.00		ug/L			10/01/19 22:51	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			10/01/19 22:51	1
Isopropyl Ether (DIPE)	ND		5.00		ug/L			10/01/19 22:51	1
Ethyl-t-butyl ether (ETBE)	ND		5.00		ug/L			10/01/19 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 128					10/01/19 22:51	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/01/19 22:51	1
Dibromofluoromethane (Surr)	104		76 - 132					10/01/19 22:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-571954/5

Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water Analysis Batch: 571954

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.00		ug/L			10/01/19 19:19	1
Toluene	ND		2.00		ug/L			10/01/19 19:19	1
Ethylbenzene	ND		2.00		ug/L			10/01/19 19:19	1
Xylenes, Total	ND		2.00		ug/L			10/01/19 19:19	1
Methyl-t-Butyl Ether (MTBE)	ND		1.00		ug/L			10/01/19 19:19	1
Tert-amyl-methyl ether (TAME)	ND		5.00		ug/L			10/01/19 19:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			10/01/19 19:19	1
Isopropyl Ether (DIPE)	ND		5.00		ug/L			10/01/19 19:19	1
Ethyl-t-butyl ether (ETBE)	ND		5.00		ug/L			10/01/19 19:19	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 128			-		10/01/19 19:19	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/01/19 19:19	1
Dibromofluoromethane (Surr)	100		76 - 132					10/01/19 19:19	1

Lab Sample ID: LCS 440-571954/1002 Matrix: Water Analysis Batch: 571954

-			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene			25.0	25.78		ug/L		103	68 - 130	
Toluene			25.0	25.86		ug/L		103	70 - 130	
Ethylbenzene			25.0	25.35		ug/L		101	70 - 130	
Methyl-t-Butyl Ether (MTBE)			25.0	25.46		ug/L		102	63 ₋ 131	
Tert-amyl-methyl ether (TAME)			25.0	25.65		ug/L		103	57 - 139	
tert-Butyl alcohol (TBA)			250	257.3		ug/L		103	70 - 130	
Isopropyl Ether (DIPE)			25.0	25.45		ug/L		102	58 - 139	
Ethyl-t-butyl ether (ETBE)			25.0	24.45		ug/L		98	60 - 136	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							

	,, ,	
Toluene-d8 (Surr)	98	 80 - 128
4-Bromofluorobenzene (Surr)	106	80 - 120
Dibromofluoromethane (Surr)	98	76 - 132
—		

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-571955/5 **Matrix: Water** Analysis Batch: 571955

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50.0		ug/L			10/01/19 19:19	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		76 - 132			-		10/01/19 19:19	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/01/19 19:19	1
Toluene-d8 (Surr)	100		80 - 128					10/01/19 19:19	1

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Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

101

Lab Sample ID: LCS 440- Matrix: Water Analysis Batch: 571955	571955/1003					Clie	ent Sai	mple ID	: Lab Cor Prep Ty	ntrol Sa pe: Tot	imple al/NA	ļ
Analysis Baton. or root			Spike	LCS	LCS				%Rec.			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits			
GRO (C4-C12)			500	528.2		ug/L		106	55 - 130			
	LCS	LCS										Ē
Surrogate	%Recovery	Qualifier	Limits									
Dibromofluoromethane (Surr)	100		76 - 132									Ē
4-Bromofluorobenzene (Surr)	101		80 - 120									
Toluene-d8 (Surr)	105		80 - 128									
Lab Sample ID: LCSD 440 Matrix: Water Analysis Batch: 571955)-571955/4				C	Client Sa	ample	ID: Lat	Control Prep Ty	Sample pe: Tot	∍ Dup :al/NA	
			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
GRO (C4-C12)			500	518.3		ug/L		104	55 - 130	2	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
Dibromofluoromethane (Surr)	100		76 - 132									
4-Bromofluorobenzene (Surr)	103		80 - 120									

80 - 128

Eurofins TestAmerica, Irvine

GC/MS VOA

Analysis Batch: 571954

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-251189-1	B1-W	Total/NA	Water	8260B	
440-251189-2	B2-W	Total/NA	Water	8260B	
440-251189-3	B3-W	Total/NA	Water	8260B	
440-251189-4	B4-W	Total/NA	Water	8260B	
440-251189-5	B5-W	Total/NA	Water	8260B	
MB 440-571954/5	Method Blank	Total/NA	Water	8260B	
LCS 440-571954/1002	Lab Control Sample	Total/NA	Water	8260B	
Analysis Batch: 5719	55				

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
440-251189-1	B1-W	Total/NA	Water	8260B/CA_LUFT		
				MS		
440-251189-2	B2-W	Total/NA	Water	8260B/CA_LUFT		
				MS		
440-251189-3	B3-W	Total/NA	Water	8260B/CA_LUFT		
				MS		
440-251189-4	B4-W	Total/NA	Water	8260B/CA_LUFT		
				MS		
440-251189-5	B5-W	Total/NA	Water	8260B/CA_LUFT		
				MS		
MB 440-571955/5	Method Blank	Total/NA	Water	8260B/CA_LUFT		
				MS		
LCS 440-571955/1003	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT		
				MS		
LCSD 440-571955/4	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT		
				MS		

Client Sample ID: B1-W Date Collected: 09/26/19 09:50 Date Received: 09/27/19 17:55

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260B	Run	Dil Factor	Initial Amount 10 mL	Final Amount 10 mL	Batch Number 571954	Prepared or Analyzed 10/01/19 21:05	Analyst JB	Lab TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		1	10 mL	10 mL	571955	10/01/19 21:05	JB	TAL IRV

Client Sample ID: B2-W Date Collected: 09/26/19 10:55 Date Received: 09/27/19 17:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	571955	10/01/19 21:31	JB	TAL IRV

Client Sample ID: B3-W Date Collected: 09/26/19 11:40 Date Received: 09/27/19 17:55

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260B	Run	Dil Factor 250	Initial Amount 10 mL	Final Amount 10 mL	Batch Number 571954	Prepared or Analyzed 10/01/19 21:58	Analyst JB	Lab TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		250	10 mL	10 mL	571955	10/01/19 21:58	JB	TAL IRV

Client Sample ID: B4-W Date Collected: 09/26/19 12:00

Date Received: 09/27/19 17:55

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	571954	10/01/19 22:24	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	571955	10/01/19 22:24	JB	TAL IRV

Client Sample ID: B5-W Date Collected: 09/26/19 13:05

Date Received: 09/27/19 17:55

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	571954	10/01/19 22:51	JB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	571955	10/01/19 22:51	JB	TAL IRV

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

10/7/2019

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 440-251189-1

Lab Sample ID: 440-251189-2

2 3 4 5 6 7 8 9

Lab Sample ID: 440-251189-3 Matrix: Water

Lab Sample ID: 440-251189-4

Lab Sample ID: 440-251189-5

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163)

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTM S	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = Eurofins TestAmerica, Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: Stantec Consulting Corp. Project/Site: 7-Eleven No. 38384 (1042163)

Job ID: 440-251189-1

Laboratory: Eurofins TestAmerica, Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska	State	CA01531	06-30-20
Arizona	State	AZ0671	10-14-19
California	LA Cty Sanitation Districts	10256	06-30-20
California	Los Angeles County Sanitation Districts	10256	06-30-20
California	State	2706	06-30-20
Guam	State	19-005R	01-23-20
Hawaii	State	CA01531	01-29-20
Hawaii	State Program	N/A	01-29-20
Kansas	NELAP	E-10420	07-31-20
Nevada	State	CA015312020-2	07-31-20
New Mexico	State	CA01531	01-29-20
New Mexico	State Program	N/A	01-29-20
Oregon	NELAP	4028 - 006	01-29-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State Program	C900	09-03-19 *

Authority	Program	Identification Number	Expiration Date
California	State Program	2938	06-30-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Nashville 2960 Foster Creighton Drive

Chain of Custody Record

TestAmerica

Nashville, TN 37204 Phone (615) 726-0177 Fax (615) 726-3404				 					189929999899899999999999999999999999999	* -*, \$
Clant Information	Sampler Garrett Pankratz		fa b P	á v Huckaba			Carrier Tracking No(s)		COC No	
Client Contact	Phone		E-Mail						Page	
Pat McConnell	562-537-7368		Jimm	<u>y.Huckaba</u>	@testamerica	inc com			l of l	
Company Stantec Consulting Services Inc			<u></u>		4	nalysis Req	uested		100 # 170-25/18	54
Address 9665 Granite Ridge Drive, Suite 220	Due Date Requested:								Preservation Codes:	
City San Diego	TAT Requested (days)								A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2	
State, Zp CA, 92123		Standard							D - Nitric Acid P - Na204S E - NaHSO4 Q - Na2SO3 E MacO4 D MacSo3	
Phone 858-633-4222	PO# NON ENFOS, Invo	ice Stantec AP/co	c P McConnell	(0					C - Amedia C - Mazazav G - Amedia S - H2SO4 H - Ascorbic Acid T - TSP Dodi	o cahvdrate
Email Pat McConnell@stantec.com	# 0M)) N O L N				S.	1 - Ice U - Acetone J - Di Water V - MCAA	. <u></u>
Project Name 7-Eleven Store No. 38384 (1042163)	Project # 185850892.800			928) s 10 50 10 50				enísti	K - EUIA W - pn 4-5 L - EDA Z - other (spe	afy)
Site 821 North Euclid Street, Santa Ana, CA	#MOSS			Axo/3 A) QS				103 <u>1</u> 0	Other	
		Sampl	e Matrix (w=water, S=scolid	Micered Micered Micered				YedmuN		
Sample (dentification	Sample Date	Time G=grat	P, O=wasteloii,) BT=Tlesue, A=Air) rvation Coder			-		Total	Special Instructions/	lote:
1- IN	9/24/0	50	S					-	1 - V	
B2 - W		0;55 G	S					-	Mualyze all	
B3-W		5 0h;1	S						Groundwater S	amples
By - W		5; 00 G	v					+-		
B5 - W		3:05 G	s	X		///// ⊥		+-		
		9	s	2			43 65			
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Possible Hazard Identification	on B 🗌 Unknow	n 🗌 Radiologi	cal	Sample	Disposal (A eturn To Clien	fee may be as t	sessed if samples a sposal By Lab	are retaine	d longer than 1 month) ve ForMonths	
Deiverable Requested. I, II, IV, Other (specify)				Special	Instructions/Q	C Requirement	s: No edf requir	ÆD		
Empty Kit Reinquished by.	Da	te		ime [.]			Method of Shipment			ſ
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Reinquished by	Date/Time	877 1-1	Company	Recei	ved by	part 1	Date/E	127	a 1755 Company	Vara
Custody Seals intact: Custody Seal No.: Δ Yes Δ No				Coole	r Temperature(s)	°C altributer Rem	ar ks	Ś	42.8 MB	
					13	11	8 9 10	7	3 4 5 6	1

Client: Stantec Consulting Corp.

Login Number: 251189 List Number: 1 Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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List Source: Eurofins TestAmerica, Irvine