

CITY OF EMERYVILLE

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17 March 2017

RECEIVED

By Alameda County Environmental Health 10:22 am, Mar 20, 2017

Mark Detterman, P.G., CEG
Senior Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject:

Results of Data Gap Investigation

Former Horton Street Underground Storage Tank

In Public Right-of-Way on Horton Street Adjacent to 5679 Horton Street,

Emeryville, California

Dear Mr. Detterman:

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached report submitted on my behalf to Alameda County Department of Environmental Health's FTP server and the State Water Resources Control Board's Geotracker Website.

If you have any questions or need additional information, please contact me at 510-596-4380.

Sincerely,

Michael A. Guina

City Attorney

City of Emeryville

Attachment: Results of Data Gap Investigation

hillan Luma



Consulting Engineers and Scientists

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17 March 2017

Mark Detterman, P.G., CEG Senior Hazardous Materials Specialist Alameda County Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Subject: Results of Data Gap Investigation

Former Horton Street Underground Storage Tank

In Public Right-of-Way on Horton Street Adjacent to 5679 Horton Street,

Emeryville, California (EKI B20006.00 T7)

Dear Mr. Detterman:

Erler & Kalinowski, Inc. ("EKI") is pleased to submit this letter on behalf of our client, the City of Emeryville as the Successor Agency to the Emeryville Redevelopment Agency ("Successor Agency"), summarizing results of additional site investigation of one underground storage tank ("UST"), located in the public right-of-way on Horton Street adjacent to 5679 Horton Street in Emeryville, California ("Site"; see Figure 1). The property at 5679 Horton Street is currently owned by the City of Emeryville ("City") and was occupied by the City's Public Works Department for use as a corporation yard between 1999 and 2012. The 5679 Horton Street property is also known as the Former Marchant/Whitney ("FMW Site"). Regulatory oversight for remedial investigation activities at the FMW Site is being provided by the California Department of Toxic Substances Control ("DTSC"), under a Voluntary Cleanup Agreement ("VCA") dated May 2012. This UST was discovered in May 2015 while retraction grouting a direct-push grab groundwater sampling location for off-site groundwater investigation activities associated with the FMW Site and the Site B Project Area in Emeryville, California, which is also under the regulatory oversight of DTSC (EKI, 2015). The origin, use, and ownership of the former UST are not currently known. The UST at the Site was removed on 17 June 2015 in accordance with the Alameda County Department of Environmental Health ("ACDEH") approved Underground Storage Tank Closure Plan ("Closure Plan"; EKI, 2015a) (Figure 2a).

Based on sampling results documented in the *Underground Storage Tank Closure Report* ("Closure Report"; EKI, 2015b), ACDEH requested additional site investigation to address data gaps. The data gap investigation was conducted in accordance with the *Data Gap Investigation Work Plan and Focused Site Conceptual Model* and the *Addendum for Soil and Groundwater Investigation* (collectively referred to as "Work Plan") and conditional approval comments provided by ACDEH in their letter dated 27 September 2016 (ACDEH, 2016), and the results of this investigation are presented here.

SUMMARY OF DATA GAP INVESTIGATION ACTIVITIES

Data gap investigation activities were conducted between 30 January and 2 February 2017 and are summarized below:

- Collected and analyzed 12 soil samples from 6 boring locations (Figure 2b). At each boring location, soil samples were collected at depths ranging between approximately 3.5 to 4 feet below ground surface ("bgs") and 6.5 to 8.0 feet bgs (Table 2a to 2c). Soil sampling intervals were adjusted based on field observations such as staining and odors and field measurements from soil core screening using a photoionization detectors ("PID").
- Collected and analyzed 8 grab groundwater samples and 1 duplicate sample from 8 boring locations (Figure 2b) at depths ranging between approximately 4 to 15.5 feet bgs (Table 3a).
- Installed one soil vapor probe, TSV01, (Figure 2b) and collected and analyzed one soil vapor sample. TSV01 was installed to a depth of 4.25 feet bgs and was adjusted based on available depth to groundwater measurements of approximately 5 feet bgs at adjacent boring locations.

A permit for drilling borings was obtained from Alameda County Public Works Agency ("ACPWA"). Underground Services Alert was notified, and Subdynamic Locating Services, a private utility locating company, was retained to investigate the potential presence of underground utilities at drilling locations prior to commencement of drilling activities.

Under the supervision of an EKI geologist, Gregg Drilling and Testing ("Gregg"), of Martinez, California, used a combination of hand augering and a hollow stem auger rig to drill boreholes for the collection of soil and grab groundwater samples and the installation of the soil vapor monitoring well. Field activities were conducted in general accordance with methods and procedures as described in the Work Plan.

CHANGES TO SCOPE OF WORK

The following changes to scope of work were based on ACDEH conditional approval comments (ACDEH, 2016) and observed field conditions:

- Boring locations TW and TSW were adjusted to the south of their originally proposed location based on the predominant groundwater flow to the southwest/south-southwest, as demonstrated by a rose diagram (Figure 4).
- Boring location TS was moved approximately four feet to the west due to proximity to a potential underground obstruction based on ground penetrating radar ("GPR") results (Figure 2b).
- Three boring locations (TSX01, TSX02, and TSX01X) were added further south of location TS based on field observations of staining and odor and PID field

measurements during soil screening at approximately 7.5 to 8 feet bgs at locations TS, TSX01, and TSX02.

SUMMARY OF RESULTS

Soil and groundwater samples were analyzed for the following chemicals of concern ("COCs") in accordance with the Work Plan: volatile organic compounds ("VOCs") including methyl tertbutyl ether ("MTBE") and total petroleum hydrocarbons ("TPH") as gasoline ("TPH-g"), as diesel ("TPH-d"), and as motor oil ("TPH-mo"). Soil and groundwater analytical results for this data gap investigation are shown on Tables 2 to 3b. A soil vapor sample was collected from soil vapor probe TSV01 and was analyzed for VOCs in accordance with the Work Plan, and the analytical results are shown on Table 4. Selected screening criteria (based on the location of the UST within the public right-of-way on Horton Street) were selected to compare to the analytical results as follows:

- Regional Water Quality Control Board ("RWQCB") Environmental Screening Levels ("ESLs") for commercial and industrial land use (RWQCB, 2016), where groundwater is a current or potential drinking water resource at shallow elevations based on the protection of human health and groundwater;
- United States Environmental Protection Agency ("U.S. EPA") Regional Screening Levels ("RSLs") for industrial land use (U.S. EPA, 2016); and
- DTSC Office of Human and Ecological Risk ("HERO") Human Health Risk Assessment ("HHRA"), Note 3 (DTSC, 2016).

The results of the data gap investigation are summarized below.

• <u>Soil:</u> TPH-g, TPH-d, and TPH-mo were not detected in soil samples collected during this data gap investigation at concentrations greater than screening criteria, and VOCs were not detected in these soil samples (Tables 2a to 2b).

• Grab Groundwater:

- O VOCs: TPH-related VOCs were not detected in groundwater samples collected during this data investigation. One or more of the following chlorinated VOCs (trichloroethene ("TCE"), trans 1,2 dichloroethene ("trans-1,2-DCE"), cis-1,2-dichloroethene ("cis-1,2-DCE"), vinyl chloride, 1,1-dichloroethane ("1,1-DCA"), 1,1-dichloroethene ("1,1-DCE"), and 1,2 dichloroethane ("1,2-DCA")) were detected in grab groundwater samples from locations TN and TW at concentrations greater than the maximum contaminant limits ("MCLs"). Chlorinated VOCs are the primary chemicals of concern ("COCs") at the downgradient adjacent FMW Site (EKI, 2015b).
- o <u>TPH:</u> Free product or sheen was not observed at any of the grab groundwater sampling locations, including location TC within the former UST excavation pit. Detections of TPH-g were generally not representative of TPH (Table 4). TPH-d was detected above the screening criteria in all of the grab groundwater samples

collected during this data investigation, and TPH-mo was detected above the screening criteria in the majority of these samples. Detected concentrations of TPH-d in groundwater ranged from 109 to 818 micrograms per liter ("ug/L"), and detected concentrations of TPH-mo in groundwater ranged from 88 to 419 ug/L. The highest detected concentrations of TPH-d and TPH-mo were detected at location TC within the former UST excavation pit (Table 3a).

TPH-d and TPH-mo concentrations in grab groundwater samples for the former Horton Street UST are shown in conjunction with TPH-d and TPH-mo concentration data from shallow groundwater monitoring wells at the FMW Site, located downgradient to the southwest (Figures 3a, 3b, and 4). Shallow groundwater monitoring wells at the FMW Site are screened between approximately 5 to 20 feet bgs. The easternmost shallow groundwater monitoring wells on the FMW Site are approximately 100 feet downgradient of the UST excavation pit. TPH-d and TPH-mo groundwater data from the FMW Site indicate that potential downgradient impacts related to the former Horton Street UST at concentrations above screening criteria do not likely extend downgradient of Horton Street into the FMW Site.

- The highest TPH-d concentration in shallow groundwater detected at the FMW Site was 265 ug/L at well FMW11, which is the closest well located directly downgradient of the UST excavation pit (Figure 3a). TPH-d is also a COC at the FMW Site and well FMW11 in an area where TPH as a separate phase liquid has been observed at shallow depths (EKI, 2016b). With the exception of one other shallow groundwater monitoring well (FMW25) located near FMW11, TPH-d was not detected above the commercial/industrial ESL of 100 ug/L at other FMW Site monitoring wells located further west and south on the FMW Site (Figure 3a).
- Although TPH-mo was detected in shallow groundwater at concentrations greater than screening criteria in Horton Street downgradient of the UST excavation pit, TPH-mo was not detected further downgradient on the FMW Site (Figure 3b).
- <u>Soil Vapor</u>: VOCs in the soil vapor sample collected from probe TSV01 were not detected above screening criteria (Table 4).

Field quality assurance and quality control ("QA/QC") samples collected for this data gap investigation included 1 duplicate groundwater sample, 4 trip blanks, 1 equipment blank, and 1 shroud sample.

• <u>Duplicate</u>: One duplicate groundwater sample was collected and analyzed for VOCs and TPH. The greatest relative percent difference between the original and duplicate results was 29% (Table 5a).

- Equipment Blank: One equipment blank sample was collected and analyzed for VOCs and TPH-g¹. VOCs and TPH-g were not detected above laboratory reporting limits in the equipment blank (Table 5b).
- <u>Trip Blanks:</u> The trip blanks were provided by the analytical laboratory and were analyzed for VOCs and TPH-g. VOCs and TPH-g were not detected above laboratory reporting limits in the trip blanks (Table 5b).
- Shroud Sample: A shroud air sample was collected to allow for evaluation of potential leaks during soil vapor sample collection. The leak check compound was detected at 90,000 parts per million by volume ("ppmv") in the shroud air sample and was not detected in the soil vapor sample (Table 4), which indicates that leaks of ambient air into the soil vapor sampling equipment set up did not affect the representativeness of the soil vapor sampling results.

SITE CONCEPTUAL MODEL

The site conceptual model ("SCM") was updated to reflect results of this data gap investigation and is provided in tabular form (Table 6). Supporting data tables and figures include Tables 1 to 5b, Figures 1 to 4, and additional information provided as attachments in the Work Plan. Tables 1 to 4 include updated screening criteria from 2016 (RWQCB, 2016; US EPA 2016; DTSC, 2016). The SCM provides a description of current land use, Site history, UST removal activities, geologic and hydrogeologic conditions, nature and extent of COCs in the subsurface, and neighboring sites with known environmental contamination. Based on the SCM, the only remaining data gap is the collection and analysis of a soil vapor sample that is representative of the dry season in accordance with the Work Plan.

EVALUATION OF LOW THREAT CLOSURE POLICY CRTIERIA

The SCM was used to evaluate whether or not the Site meets the LTCP criteria, as summarized on Table 7. Based on available data, the Site likely meets the Low Threat Closure Policy criteria pending results of a soil vapor sample to be collected during the dry season.

REMAINING DATA GAP SCOPE OF WORK

In accordance with the Work Plan, one additional soil vapor sample will be collected from soil vapor probe TSV01 during the dry season in August 2017.

¹ An equipment blank for TPH-d and TPH-mo analysis was inadvertently not collected.

Please call if you have questions or wish to discuss this letter in further detail.

Very truly yours,

ERLER & KALINOWSKI, INC.

Earl James, P.G.

Vice President

Joy Su, P.E. Project Manager

cc: Michael Guina, City Attorney

Michael G. Biddle, Burke, Williams & Sorrensen, LLP

Karen Toth, DTSC

REFERENCES

ACDEH, 2016. *Conditional Work Plan Approval*, Fuel Leak Case No. RO0003185 and GeoTracker Global ID T10000007323, Horton Street UST, 5679 Horton Street, Emeryville, CA 94608

DTSC, 2016. Human Health Risk Assessment (HHRA) Note 3, January 2016.

EKI, 2012. Final Subsurface Environmental Investigations Report, 5679 Horton Street, Former Marchant/Whitney Site, Emeryville, California, Erler & Kalinowski, Inc., August, 2012.

EKI, 2015a. *Underground Storage Tank Closure Plan*, 5679 Horton Street, Emeryville, California, 14 April 2015.

EKI, 2015b. *Underground Storage Tank Closure Report*, In Public Right-of-Way on Horton Street Adjacent to 5679 Horton Street, Emeryville, California, 17 August 2015.

EKI, 2016. *Final Remedial Investigation Report*, Former Marchant/Whitney Site, 5679 Horton Street, Emeryville, California, June 2016.

RWQCB, 2016, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, California Regional Water Quality Control Board, San Francisco Bay Region, February 2016.

SWRCB, 2012. Low-Threat Underground Storage Tank Case Closure Policy. Adopted in Resolution No. 2012-0016, 1 May 2012.

U.S. EPA, 2016. Regional Screening Levels, November 2015, May 2016 Update.

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TPH-mo Groundwater Data

TABLE 1 Summary of Analytical Results for UST Liquid Contents Sample

Former Horton Street UST 5679 Horton Street, Emeryville, California

												Analytica	d Results	in mg/kg	(a)(b)							
						TPH									VOCs							
Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	трн-g	ТРН-д	TPH-mo	Benzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	N-butylbenzene	N-propylbenzene	Sec-butylbenzene	Toluene	Xylene (m,p)	Xylene (o)	1,2,4-TMB	1,3,5-TMB	4-isopropyltoluene	Other VOCs
H-H	H-H-6.5-9	5/5/2015	6.5 - 9.0	Product	15,900	731,000	<40,000	<40	72.9	44.4	<40	1,000	140	83.5	63.8	<40	295	81.5	631	197	77	ND

Abbreviations

< 40,000 = not detected at or above indicated laboratory detection limit

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

MTBE = Methyl tert-butyl ether

ND = not detected TMB = trimethylbenzene

TPH-(g/d/mo) = total petroleum hydrocarbons as (gasoline/diesel/motor oil)

UST = underground storage tank

VOCs = volatile organic compounds

Notes

(a) Samples analyzed by K-Prime, Inc., Santa Rosa, CA using EPA Method 8260B for TPH-g and VOCs.

(b) Analytical results are listed in units of milligrams of contaminant per kilogram of product.

TABLE 2a Summary of Analytical Results for TPH and Metals in Soil Samples

Former Horton Street UST 5679 Horton Street, Emeryville, California

			1			Analytic	al Results in n	ng/kg dry wei	oht (a)(h)		
					TPH	rinaryae		ig itg til wei	Metals		
Sample Location UST Piping-related	Sample ID	Sample Date	Sample Depth (ft bgs)	TPH-g	TPH-d	ТРН-то	Cadmium	Chromium	Lead	Nickel	Zinc
US1 Fiping-related	HUST-PPNG01-2.5	6/17/2015	2.5	<1.00	180 (AC)	252	<3.14	27.8	10.1	35.6	43.3
	HUST-PPNG02-2.0	6/17/2015	2.0	<1.00 4.92	225 (AC)	330	3.16	31.1	46.1	33.0 47.6	971
HUST -PPNG	HUST-PPNG03-2.0	6/17/2015	2.0	13.1	1,020	232	<2.92	37.8	37.2	53.4	134
	HUST-PPNG04-2.5	6/17/2015	2.5	<1.00	350 (AC)	427	6.82	29.1	121	190	2,620
UST Excavation Sic		0/17/2013	2.3	<1.00	330 (AC)	427	0.62	29.1	121	190	2,020
CST Excavation Sic	HUST-SW01-7.0	6/17/2015	7.0	2.96	1,080	164	<2.94	32.0	6.13	34.5	35.4
	HUST-SW02-7.0	6/17/2015	7.0	4.66	267	53.3	7.97	36.0	15.8	38.5	84.2
HUST-SW	HUST-SW03-7.0	6/17/2015	7.0	5.70	1,290	120	<2.71	32.2	26.1	37.7	53.1
	HUST-SW04-7.0	6/17/2015	7.0	6.31	4,440	534	<2.92	31.3	5.37	25.7	31.2
UST Excavation Flo	oor Samples				,		ı				
	HUST-F01-9.5	6/17/2015	9.5	<1.00	<12.0	<12.0	< 3.01	42.7	7.39	58.1	66.1
HUST-F	HUST-F02-9.5	6/17/2015	9.5	<1.00	<11.8	<11.8	< 2.96	45.6	8.54	56.1	65.3
Samples From Data	Gap Investigation		•				•				•
TW	TW-3.5-4.0	1/30/2017	3.5 to 4.0	<1.00	<12.1	<12.1					
1 W	TW-6.5-7.0	1/30/2017	6.5 to 7.0	<1.00	115	17.2					
TSW	TSW-3.5-4.0	1/30/2017	3.5 to 4.0	<1.00	<12.9	<12.9					
15 W	TSW-6.5-7.0	1/30/2017	6.5 to 7.0	<1.00	<12.6	<12.6					
TS	TS-3.5-4.0	1/31/2017	3.5 to 4.0	<1.00	<13.2	<13.2					
15	TS-7.5-8.0	1/31/2017	7.5 to 8.0	14.4	87.9	95.7					
TSX01	TSX01-3.5-4.0	2/2/2017	3.5 to 4.0	<1.00	<12.9	<12.9					
157101	TXS01-7.5-8.0	2/2/2017	7.5 to 8.0	165	116 (AC)	94.3					
TSX02	TSX02-3.5-4.0	2/2/2017	3.5 to 4.0	<1.00	<12.6	<12.6					
151102	TXS02-7.5-8.0	2/2/2017	7.5 to 8.0	<1.00	<12.7	<12.7					
TSX01X	TSX01X-3.5-4.0	2/2/2017	3.5 to 4.0	<1.00	<12.9	<12.9					
	TXS01X-7.5-8.0	2/2/2017	7.5 to 8.0	<1.00	13.6	<12.6					
	m./Ind Direct Expo	osure (d)		2,800	1,100	5,100	43	na	160	86	110,000
U.S. EPA RSL - Ind		1 (0		na	na	na	980 7.3	na	800 320	22,000 3,100	350,000
DTSC HERO HHRA	A Note 3 - Comm./Ind	i. (f)		na	na	na	7.3	na	320	3,100	na

TABLE 2a

Summary of Analytical Results for TPH and Metals in Soil Samples

Former Horton Street UST 5679 Horton Street, Emeryville, California

Abbreviations

< 2.96 = not detected at or above laboratory detection limit

AC = Heavier hydrocarbons contributing to diesel range quantification

DTSC = Department of Toxic Substances Control

ESL = environmental screening level

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

na = not applicable

RSL = regional screening level

RWQCB = Regional Water Quality Control Board, San Francisco Bay region TPH-(g/d/mo) = total petroleum hydrocarbons as (gasoline/diesel/motor oil)

U.S. EPA = United States Environmental Protection Agency

UST = underground storage tank

Notes

(a) Samples analyzed by K-Prime, Inc., Santa Rosa, CA using EPA Method 8015B for TPH-g/-d/-mo, and EPA Method 6020 for metals.

- (b) **Bold** value indicates detected concentration exceeds one or more soil screening criteria.
- (c) Grayed out and striked-through confirmation soil sample locations have been over-excavated during UST excavation activities.
- (d) Selected screening levels are the most stringent ESL found in Table S-1 (RWQCB, 2016), excluding ESLs based on residential land use.
- (e) Screening levels based on U.S. EPA's RSLs for industrial land use (TR=1E-6, HQ=1).
- (f) Screening levels based on DTSC's Human Health Risk Assessment (HERO HHRA) Guidance for commercial/industrial land use, as listed in Note 3, table 1.

- (1) DTSC HERO, 2016. Human Health Risk Assessment Note Number: 3, January 2016.
- (2) RWQCB, 2016. ESLs from User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final 2016, San Francisco Bay Regional Water Quality Control Board, February 2016, Revision 3.
- (3) US EPA, 2016. Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, May 2016.

TABLE 2b

Summary of Analytical Results for VOCs and PCBs in Soil Samples

Former Horton Street UST

5679 Horton Street, Emeryville, California

										cal Results in n	ng/kg dry weigh	ıt (a)(b)					
					1		T	1	VOCs	1	1		1			PCBs	
Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene	cis-1,2-DCE	Ethylbenzene	Toluene	Trichloroethene	MTBE	Naphthalene	Xylene (m,p)	Xylene (o)	1,2,4-TMB	Other VOCs	Aroclor 1254	Aroclor 1260	Other PCBs
UST Piping-related	1 \																
	HUST-PPNG01-2.5	6/17/2015	2.5	<0.00188	<0.00188	<0.00188	<0.00188	0.00188	<0.00188	<0.00376	<0.00188	<0.00188	<0.00188	NĐ	0.0278	0.219	NĐ
HUST -PPNG	HUST-PPNG02-2.0	6/17/2015	2.0	< 0.00175	< 0.00175	< 0.00175	< 0.00175	0.01	< 0.00175	0.00703	< 0.00175	< 0.00175	<0.00175	NĐ	<0.0252	0.0264	ND
11001 11110	HUST-PPNG03-2.0	6/17/2015	2.0	<0.235	<0.235	<0.235	<0.235	<0.235	<0.235	<0.471	<0.235	<0.235	0.258	ND	<0.0252	<0.0252	ND
	HUST-PPNG04-2.5	6/17/2015	2.5	< 0.00148	0.00174	< 0.00148	< 0.00148	0.00228	< 0.00148	0.00404	< 0.00148	< 0.00148	< 0.00148	ND	< 0.0252	< 0.0252	ND
UST Excavation Sid		1	1	T	1		ı	T		1	1		1		1		
	HUST-SW01-7.0	6/17/2015	7.0	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236	< 0.236	< 0.471	< 0.236	< 0.236	< 0.236	ND	< 0.0252	< 0.0252	ND
HUST-SW	HUST-SW02-7.0	6/17/2015	7.0	<0.251	< 0.251	< 0.251	<0.251	<0.251	< 0.251	< 0.501	< 0.251	< 0.251	< 0.251	ND	< 0.0252	0.0332	ND
	HUST-SW03-7.0	6/17/2015	7.0	<1.08	<1.08	<1.08	<1.08	<1.08	<1.08	5.42	<1.08	<1.08	2.05	ND	<0.0252	<0.0252	ND
	HUST-SW04-7.0	6/17/2015	7.0	< 0.234	< 0.234	< 0.234	< 0.234	< 0.234	< 0.234	< 0.467	< 0.234	< 0.234	< 0.234	ND	< 0.0252	< 0.0252	ND
UST Excavation Flo			1	0.00450	0.004=0	0.00450	0.004.50	0.00450	0.004=0	0.000.5	0.004=0	0.00450	0.004=0	175	0.0050	0.02.52	1775
HUST-F	HUST-F01-9.5	6/17/2015	9.5	<0.00178	<0.00178	<0.00178	<0.00178	<0.00178	<0.00178	<0.00356	<0.00178	<0.00178	< 0.00178	ND	<0.0252	<0.0252	ND
G I E D (HUST-F02-9.5	6/17/2015	9.5	< 0.00177	< 0.00177	< 0.00177	< 0.00177	< 0.00177	< 0.00177	< 0.00355	< 0.00177	< 0.00177	< 0.00177	ND	< 0.0252	< 0.0252	ND
Samples From Data		1/20/2017	25: 40	< 0.00157	< 0.00157	< 0.00157	< 0.00157	0.00157	< 0.00157	0.00212	0.00157	< 0.00157	< 0.00157	NID	ı		
TW	TW-3.5-4.0 TW-6.5-7.0	1/30/2017 1/30/2017	3.5 to 4.0 6.5 to 7.0	<0.00157	<0.00157	<0.00157	<0.00157	<0.00157 <0.00156	<0.00157	<0.00313 <0.00312	<0.00157 <0.00156	<0.00157	<0.00157	ND ND			
	TSW-3.5-4.0	1/30/2017	3.5 to 4.0	<0.00156	<0.00156	<0.00156	<0.00156	<0.00156	<0.00156	<0.00312	<0.00156	<0.00156	<0.00156	ND ND			
TSW	TSW-6.5-7.0	1/30/2017	6.5 to 7.0	<0.00169	<0.00169	<0.00169	<0.00169	<0.00169	<0.00169	<0.00339	<0.00169	<0.00169	<0.00169	ND ND			
-	TS-3.5-4.0	1/30/2017	3.5 to 4.0	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00328	<0.00164	<0.00164	<0.00164	ND ND			
TSW	TS-7.5-8.0	1/31/2017	7.5 to 8.0	< 0.0154	<0.0134	< 0.00134	<0.0134	<0.0134	<0.0134	<0.00207	<0.0134	< 0.00134	< 0.00134	ND			
	TSX01-3.5-4.0	2/2/2017	3.5 to 4.0	< 0.0107	<0.00176	<0.0107	<0.0107	<0.0107	< 0.0107	<0.0336	<0.00176	< 0.0107	<0.0176	ND			
TSX01	TXS01-7.5-8.0	2/2/2017	7.5 to 8.0	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	<0.0222	<0.0443	<0.0222	<0.0222	<0.0222	ND			
	TSX02-3.5-4.0	2/2/2017	3.5 to 4.0	< 0.00163	< 0.00163	< 0.00163	< 0.00163	< 0.00163	< 0.00163	<0.00325	< 0.00163	< 0.00163	< 0.00163	ND			
TSX02	TXS02-7.5-8.0	2/2/2017	7.5 to 8.0	< 0.00165	< 0.00165	< 0.00165	< 0.00165	< 0.00165	< 0.00165	< 0.00329	< 0.00165	< 0.00165	< 0.00165	ND			
THE TAX OF TAX	TSX01X-3.5-4.0	2/2/2017	3.5 to 4.0	< 0.00166	< 0.00166	< 0.00166	< 0.00166	< 0.00166	< 0.00166	< 0.00333	< 0.00166	< 0.00166	< 0.00166	ND			
TSX01X	TXS01X-7.5-8.0	2/2/2017	7.5 to 8.0	< 0.00163	< 0.00163	< 0.00163	< 0.00163	< 0.00163	< 0.00163	< 0.00327	< 0.00163	< 0.00163	< 0.00163	ND			
RWQCB ESL - Com	m./Ind. (d)	1	1	0.044	0.19	1.38	2.9	0.46	0.023	0.033	2.3	2.3	na		na	na	
U.S. EPA RSL - Ind.	. (e)			5.1	2,300	25	47,000	6.0	210	17	2,500	2,500	240		0.97	0.99	
DTSC HERO HHRA	A Note 3 - Comm./Ind. (f.)		1.4	86	na	5,400	na	na	na	na	na	na		na	na	

Abbreviations

< 2.96 = not detected at or above laboratory detection limit

DCE = dichloroethene

DTSC = California Department of Toxic Substances Control

ESL = environmental screening level ft bgs = feet below ground surface mg/kg = milligrams per kilogram MTBE = Methyl tert-butyl ether

na = not applicable

PCBs = poly-chlorinated biphenyls RSL = regional screening level

RWQCB = Regional Water Quality Control Board, San Francisco Bay Region

SVOCs = semi-volatile organic compounds

TMB = trimethylbenzene

 $VOCs = volatile \ organic \ compounds$

U.S. EPA = United States Environmental Protection Agency

UST = underground storage tank

Notes

- (a) Samples analyzed by K-Prime, Inc., Santa Rosa, CA using EPA method 8260B for VOCs, EPA Method 8270 for SVOCs, and EPA Method 8082A for PCBs.
- (b) **Bold** value indicates detected concentration exceeds one or more soil screening criteria.
- (c) Grayed out confirmation soil sample locations have been over-excavated during UST demolition activities.
- (d) Selected screening levels are the most stringent ESL found in Tables S-1 through S-4 (RWQCB, 2016), excluding ESLs based on residential land use and protection of nondrinking water.
- (e) Screening levels based on U.S. EPA RSLs for industrial land use (TR=1E-6, HQ=1).
- $(f) Screening \ levels \ based \ on \ DTSC's \ Human \ Health \ Risk \ Assessment \ (HERO\ HHRA) \ Guidance \ for \ commercial/industrial \ land \ use, \ as \ listed \ in \ Note \ 3, \ table \ 1.$

- (1) DTSC HERO, 2016. Human Health Risk Assessment Note Number: 3, January 2016.
- (2) RWQCB, 2016. ESLs from User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final 2016, San Francisco Bay Regional Water Quality Control Board, February 2016, Revision 3.
- (3) US EPA, 2016. Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, May 2016.

TABLE 2c Summary of Analytical Results for SVOCs and PAHs in Soil Samples

Former Horton Street UST

5679 Horton Street, Emeryville, California

		1	1														
									Analyti		ng/kg dry weigl	ıt (a)(b)					
										SV	OCs						
												PAHs					1
Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Anthracene	Fluorene	Naphthalene	Phenanthrene	2-methylnaphthalene	3enzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	3enzo(k)fluoranthene	Chrysene	Oibenz(a,h)anthracene	ndeno(1,2,3-c,d)pyrene	ВаРе	Other SVOCs
UST Piping-related	1	Dute	(11 080)	,		I			I	H	Щ				Ι		
1 8 · · · · ·	HUST-PPNG01-2.5	6/17/2015	2.5	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	<0.333	<0.333	< 0.333	< 0.333	NĐ	ND
HILICT DDMC	HUST-PPNG02-2.0	6/17/2015	2.0	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	NĐ	ND
HUST -PPNG	HUST-PPNG03-2.0	6/17/2015	2.0	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	NĐ	NĐ
	HUST-PPNG04-2.5	6/17/2015	2.5	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	<1.66	ND	ND
UST Excation Sidew	vall Samples																
	HUST-SW01-7.0	6/17/2015	7.0	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	ND	ND
HUST-SW	HUST-SW02-7.0	6/17/2015	7.0	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	ND	ND
nosi-sw	HUST-SW03-7.0	6/17/2015	7.0	< 0.333	1.39	2.15	2.07	8.28	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	ND	ND
	HUST-SW04-7.0	6/17/2015	7.0	2.04	1.35	< 0.333	1.24	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	ND	ND
UST Excavation Flo	or Samples																
HUST-F	HUST-F01-9.5	6/17/2015	9.5	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	ND	ND
11031-1	HUST-F02-9.5	6/17/2015	9.5	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	ND	ND
RWQCB ESL - Com	1 /	·	2.8	8.9	0.033	10.7	0.25	2.9	0.29	2.9	2.6	3.8	0.29	2.9			
U.S. EPA RSL - Ind.	1 /			230,000	30,000	17	na	3,000	2.9	0.29	2.9	29	290	0.29	2.9		
DTSC HERO HHRA	Note 3 - Comm./Ind. (f))		na	na	na	na	na	na	na	na	na	na	na	na		

Abbreviations

< 2.96 = not detected at or above laboratory detection limit

BaPe = benzo(a)pyrene toxicity equivalent

DTSC = California Department of Toxic Substances Control

ESL = environmental screening level

ft bgs = feet below ground surface mg/kg = milligrams per kilogram

na = not applicable PAHs = polycyclic aromatic hydrocarbons RSL = regional screening level

RWQCB = Regional Water Quality Control Board, San Francisco Bay Region

SVOCs = semi-volatile organic compounds

U.S. EPA = United States Environmental Protection Agency

UST = underground storage tank

- (a) Samples analyzed by K-Prime, Inc., Santa Rosa, CA using EPA method 8260B for VOCs, EPA Method 8270 for SVOCs, and EPA Method 8082A for PCBs.
- (b) **Bold** value indicates detected concentration exceeds one or more soil screening criteria.
- (c) Grayed out confirmation soil sample locations have been over-excavated during UST demolition activities.
- (d) Selected screening levels are the most stringent ESL found in Tables S-1 through S-4 (RWQCB, 2016), excluding ESLs based on residential land use and protection of nondrinking water.
- (e) Screening levels based on U.S. EPA RSLs for industrial land use (TR=1E-6, HQ=1).
- (f) Screening levels based on DTSC's Human Health Risk Assessment (HERO HHRA) Guidance for commercial/industrial land use, as listed in Note 3, table 1.

- (1) DTSC HERO, 2016. Human Health Risk Assessment Note Number: 3, January 2016.
- (2) RWQCB, 2016. ESLs from User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final 2016, San Francisco Bay Regional Water Quality Control Board, February 2016, Revision 3.
- (3) US EPA, 2016. Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, May 2016.

TABLE 3a Summary of Analytical Results for VOCs Grab Groundwater Samples

Former Horton Street UST 5679 Horton Street, Emeryville, California

													A	nalytical	Results in	ug/L (a)(1	b)										
					TPH												VOCs										
Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	гРН-8	ГРН-d (е)	ſPH-mo (e)	Benzene	sis-1,2-DCE	3thylbenzene	sopropylbenzene	Vaphthalene	MTBE	1-butylbenzene	1-propylbenzene	ec-butylbenzene	Foluene	Frichloroethene	rans-1,2-DCE	Vinyl Chloride	Kylenes-m,p	Kylenes-o	1,1-DCA	I,1-DCE	1,2-DCA	1,2,4-TMB	1,3,5-TMB	Other VOCs
	H-H-19-24	5/5/2015	19 - 24	781 (AE,CO)	403	403	<10.0	185	<10.0	<10.0	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,530	123	10.6	<10.0	<10.0	<10.0	<10.0	24.1	<10.0	<10.0	ND
Н-Н	H-H-28-32	5/5/2015	28 - 32				2.92	< 0.500	3.60	1.17	35.9		2.14	1.82	1.09	< 0.500	< 0.500	< 0.500	< 0.500	15.0	5.13	< 0.500	< 0.500	< 0.5	15.9	4.58	ND
	H-H-42-46	5/5/2015	42 - 46				< 0.500	< 0.500	< 0.500	< 0.500	<1.00		< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500		-
Samples	From Data Gap Inv	estigation	•		•			•		-			•		-	•						•		-	•		
TW	TW-4-14	1/30/2017	4 - 14	< 50	369 (AC)	185	< 0.500	7.63	< 0.500	< 0.500	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	2.38	5.40	1.19	< 0.500	< 0.500	0.930	< 0.500	< 0.500	< 0.500	< 0.500	ND
TSW	TSW-5-15	1/31/2017	5 - 15	50 (CO)	150	116	< 0.500	1.59	< 0.500	< 0.500	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	ND
15 W	TSW-5-15-DUP	1/31/2017	5 - 15	67 (CO)	144	108	< 0.500	1.81	< 0.500	< 0.500	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	0.510	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	ND
TS	TS-5-15	2/1/2017	5 - 15	< 50	335	135	< 0.500	2.73	< 0.500	< 0.500	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	ND
TC	TC-4.5-14.5	2/1/2017	4.5 - 14.5	74	818 (AC)	419	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	ND
TN	TN-5.5-15.5	2/1/2017	5.5 - 15.5	173 (CO)	109	95	<1.00	75.4	<1.00	<1.00	< 2.00	<1.00	<1.00	<1.00	<1.00	<1.00	14.4	89.6	45.9	<1.00	<1.00	18.3	2.71	<1.00	<1.00	<1.00	ND
TSX01	TSX01-5.5-15.5	2/2/2017	5.5 - 15.5	< 50	110	88	< 0.500	4.50	< 0.500	< 0.500	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	2.24	0.810	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	0.830	< 0.500	< 0.500	ND
TSX02	TSX02-5-15	2/2/2017		< 50	175	108	< 0.500	0.510	< 0.500	< 0.500	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	ND
TSX01X	TSX01X-5.5-15.5	2/2/2017	5.5 - 15.5	< 50	284	127	< 0.500	< 0.500	< 0.500	< 0.500	<1.00	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	ND
MCLs(c)				na	na	na	1.0	6.0	300	na	na	13	na	na	na	150	5.0	10	0.50	1,750	1,750	5	6	0.50	na	na	
RWQCB	ESL - Comm./Ind. (d)		100	100	100	1.0	6.0	30	na	0.17	5.0	na	na	na	40	5.0	10	0.50	20	20	5	6	0.50	na	na	

Abbreviations

 $\overline{<0.5}$ = not detected at or above laboratory detection limit

-- = not analyzed

AC = Heavier hydrocarbons contributing to diesel range quantitation

AE = Unknown hydrocarbon with a single peak

CO = Hydrocarbon response in gasoline range but does not resemble gasoline

DCA = dichloroethane

DCE = dichloroethene

EPA = Environmental Protection Agency

ESL = environmental screening level ft bgs = feet below ground surface

MCLs = Maximum Contaminant Levels MTBE = Methyl tert-butyl ether

na = not applicable ND = not detected RWQCB - Regional Water Quality Control Board, San Francisco Bay Region

TMB = Trimethylbenzene

TPH-(g/d) = total petroleum hydrocarbons as (gasoline/diesel)

ug/L = micrograms per liter UST = underground storage tank VOCs = volatile organic compounds

<u>Notes</u>

(a) Samples analyzed by K-Prime, Inc., Santa Rosa, CA using EPA Method 8260 for VOCs, EPA Method 8015B for TPH-g, TPH-d, and TPH-mo, and EPA Method 200.8 for metals.

- (b) **Bold** value indicates detected concentration exceeds one or more groundwater screening criteria.
- (c) Screening levels based on California Department of Public Health's Drinking Water MCLs.
- (d) Selected screening levels are the most stringent ESLs found in Tables GW-1 through GW-5 (RWQCB, 2016), excluding ESLs based on human health risk based only, aquatic receptors, shallow groundwater exposure, deep groundwater residential exposure, deep groundwater commercial/industrial sand scenario, and protection of nondrinking water.
- (e) Silica gel cleanup performed for samples H-H-19-24, H-H-28-32, and H-H-42-46.

- (1) CDPH, 2015. Drinking Water Maximum Contaminant Levels, California Department of Public Health, September 2015.
- (2) RWQCB, 2016. ESLs from User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final 2016, San Francisco Bay Regional Water Quality Control Board, February 2016, Revision 3.

TABLE 3b Summary of Analytical Results for Metals for Grab Groundwater Samples

Former Horton Street UST

					Analytcial R	Results for Di	issolved Title	22 Metals in	n ug/L (a)(b)	
Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Barium	Cobalt	Copper	Molybdenum	Nickel	Zinc	Other Title 22 Metalk
	H-H-19-24	5/5/2015	19 - 24	127	17.4	1.36	25.5	16.6	13.4	ND
Н-Н	H-H-28-32	5/5/2015	28 - 32							
	H-H-42-46	5/5/2015	42 - 46							
MCLs (c)				1,000	na	1,300	na	100	na	
RWQCB E	SL - Comm./Ind. (d)		1,000	4.7	1,000	78	100	5,000	

Abbreviations

-- = not analyzed na = not applicable ESL = environmental screening level ND = not detected

EPA = Environmental Protection Agency RWQCB - Regional Water Quality Control Board, San Francisco Bay Regi

Notes

- (a) Samples analyzed by K-Prime, Inc., Santa Rosa, CA using EPA Method 200.8 for metals.
- (b) **Bold** value indicates detected concentration exceeds one or more groundwater screening criteria.
- (c) Screening levels based on California Department of Public Health's Drinking Water MCLs.
- (d) Selected screening levels are the most stringent ESLs found in Tables GW-1 through GW-5 (RWQCB, 2016), excluding ESLs based on humhealth risk based only, aquatic receptors, shallow groundwater exposure, deep groundwater residential exposure, deep groundwater commercial/industrial sand scenario, and protection of nondrinking water.

- (1) CDPH, 2015. Drinking Water Maximum Contaminant Levels, California Department of Public Health, September 2015.
- (2) RWQCB, 2016. ESLs from User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final 2016, San Francisco Bay Regional Water Quality Control Board, February 2016, Revision 3.

TABLE 4

Summary of Analytical Results for Soil Vapor Sample

Former Horton Street UST 5679 Horton Street, Emeryville, California

																Α	analytical Res	sults (a)(b))										
															V	OCs (ug	/m ³)										Leak	Check Re	sults
						1				1					· ·	OCs (ug	, 1111)		1	1	,	1			ı			(ppmv)	
Sample Location	Sample ID	Sample Date	Sample Type	Approximate Sample Depth (ft bgs)	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	o-Xylene	Xylenes, m & p	Other VOCs	DFA in Sample	DFA in Sampling Shroud	Estimated Leak Percentage
TSV01	TSV01	2/2/2017	Soil Vapor	3.5 to 3.75	9.89	<3.97	<3.96	<2.56	<3.19	<6.29	<2.64	<4.88	<2.07	<4.05	<3.97	<4.34	<3.47	15.4	<3.77	<5.46	<7.66	<4.92	<4.92	<4.34	<8.68	ND	<10.0	90,000	na
	•		RWQCB E	SL - Comm/Ind	3,000		350,000		420		44,000,000	530	390,000	7,700	310,000	4,900	12,000	2,100	1,300,000	4,400,000	na	na	na	440,000	440,000		na	na	na
	•		RSL for Industri	al Indoor Air (c)	3,000	na	na	2,800	1,600	2,000	44,000,000	530	390,000	7,700	880,000	4,900	1,200,000	47,000	22,000,000	22,000,000	130,000,000	31,000	na	440,000	440,000	na	na	na	na
$1,000 \times D'$	TSC HERO HHR	A Note 3 Table 3	3 for Industrial	Indoor Air (c, d)	na	35,000	350,000	160	420	0	10,000	na	na	7,700	310,000	na	12,000	2,000	1,300,000	4,400,000	na	na	180,000	na	na	na	na	na	na

Abbreviations:

< 2.56 = Not detected above the stated laboratory reporting limit

DFA = 1,1-Difluoroethane

DTSC = Department of Toxic Substances Control

ESL = RWQCB Environmental Screening Level

ft bgs = feet below ground surface

HERO = Human and Ecological Risk Office ND = not detected

HHRA = Human Health Risk Assessment

ppmv = parts per million by volume RSL = USEPA Regional Screening Levels

ug/m³ = micrograms per cubic meter UST = underground storage tank

na = not available

Notes:

- (a) Concentrations that exceed one or more environmental screening criteria are shown in **bold** font.
- (b) VOCs were analyzed using EPA Method TO-15 and DFA was analyzed using EPA Method TO-3 by K-prime, Inc., of Santa Rosa, California.
- (c) The default attenuation factor of 0.001 between soil vapor and indoor air, which is based on DTSC vapor intrusion assessment guidance (DTSC, 2011), was used to calculate screening levels for soil vapor data. The screening levels are calculated by dividing the appropriate industrial indoor air screening level by the attenuation factor, which in this case, is the same as multiplying by a factor of 1,000.
- (d) DTSC screening level of Tetrachloroethane modified in DTSC HERO HHRA Note 7 (DTSC, 2016b)

- (1) DTSC, 2011. Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air, October 2011.
- (2) USEPA, 2016. Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, May 2016.
- (3) DTSC HERO, 2016a. Human Health Risk Assessment Note Number: 3, January 2016.
- (4) DTSC HERO, 2016b. Human Health Risk Assessment Note Number: 7, October 2016.

TABLE 5a Comparison of Duplicate Groundwater Sample Former Horton Street UST

5679 Horton Street, Emeryville, California

									Analytica	al Results in	n ug/L (a)					
								VO	Cs						TPH	
Location ID		Sample Date	Sample Depth (ft bgs)	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Toluene	Trichlorotrifluoroethane	трн-д	ТРН-d	TPH-mo
TSW-5-15	TSW-5-15	1/31/2017	5 to 15	< 0.500	1.59	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	50	150	116
	TSW-5-15-DUP	1/31/2017	0.010	< 0.500	1.81	< 0.500	0.51	<0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	67	144	108
			RPD	NC	13%	NC	NC	NC	NC	NC	NC	NC	NC	29%	4%	7%

Abbreviations:

<0.500 = Not detected above the stated laboratory reporting limit

ft bgs = feet below ground surface

NC = not calculated

EPA = Environmental Protection Agency

RPD = relative percent difference

TPH = total petroleum hydrocarbons

TPH-d = TPH-diesel range organics

TPH-g = TPH-gas range organics

TPH-mo = TPH-motor oil range organics

ug/L = micrograms per liter

VOCs = Volatile Organic Compounds

(a) Groundwater samples were analyzed for VOCs using EPA Method 8260B and TPH by EPA Method 8015B. Analyses were performed by K-Prime, Inc., Santa Rosa, California.

TABLE 5b

Summary of Equipment and Trip Blank Results for VOCs and TPH

Former Horton Street UST 5679 Horton Street, Emeryville, California

				Analytical R	esults (ug/L)	(a)
					TPH	
Sample Type	Sample ID	Sample Date	VOCs	TPH-g	TPH-d	TPH-mo
Equipment Blank	EB20170131	1/31/2017	ND	<50.0	<50.5	<50.5
	TB20170130	1/30/2017	ND	<50.0		
Trip Blanks	TB20170131	1/31/2017	ND	<50.0		
	TB20170201	2/1/2017	ND	<50.0		
	TB20170202	2/2/2017	ND	<50.0		

Abbreviations:

<50.0 = Not detected above the stated laboratory reporting limit "--" = not analyzed

ND = not detected

wg/L = micrograms per liter
TCE = Trichloroethene
TPH = Total Petroleum Hydrocarbons
TPH-d = TPH-diesel range organics

TPH-g = TPH-gas range organics

TPH-mo = TPH-motor oil range organics VOCs = Volatile Organic Compounds

Notes:
(a) Blank samples were selectively analyzed for the following analytes using the following methods:

VOCs using EPA Method 8260B;

TPH-g, TPH-d, and TPH-mo using EPA Method 8015B.

Analyses were performed by K-Prime, Inc., Santa Rosa, California.

TABLE 6 SITE CONCEPTUAL MODEL

Former Horton Street UST 5679 Horton Street, Emeryville, California

Data Gap **How to Address** SCM Sub-Element **SCM Element** Description (a) (a) The Site is located in the public right-of-way on Horton Street within the northbound lane. The Site is adjacent to 5679 Horton Street in Emeryville, 1. Current Land Use None NA California. Industrial/commercial buildings are located along both sides of Horton Street. (Figure 1) The origin, use, and ownership of the former Horton Street UST are not currently known. The former Horton Street UST may have been installed as part of the former Marchant Calculating Machine Company facility (late 1910s to late 1950s) or subsequent light industrial businesses that historically occupied the 2. Site History NA None area. The former Horton Street UST appears to have been utilized as a diesel fuel tank based on analytical results of the tank contents prior to removal. Subsequent redevelopment of the area likely resulted in the tank being left in place beneath Horton Street. (Reference: EKI, 2015b) (Figure 1) The contents of the former Horton Street UST were likely diesel, based on chemical analysis of a separate phase liquid sample (H-H-6.5-9) previously a. Contents Prior collected from inside the in-place UST on 5 May 2015 (Table 1). Prior to UST removal, approximately 800 gallons of the oily liquid contents were vacuumed NA None to Removal out of the in-place UST and disposed off-site in accordance with applicable laws and regulations. (Reference: EKI, 2015b) The former Horton Street UST at the Site was removed on 17 June 2015 in accordance with the Alameda County Department of Environmental Health 3. UST "ACDEH") approved Underground Storage Tank Closure Plan ("Closure Plan"), 5679 Horton Street, Emeryville, California, dated 8 June 2015 and o. Remova prepared by EKI. The final extents of the UST excavation were approximately 9 feet wide and 12 feet long, extending to approximately 9.5 feet below None NA ground surface ("ft bgs"; see Figure 1). The top of the tank was at approximately 5.5 ft bgs, and the bottom of the tank was at approximately 8.5 ft bgs. (Reference: EKI, 2015a: 2015b) The Site is located on the East Bay Plain, approximately 1,500 feet east of the current San Francisco Bay shoreline, and approximately 3 miles west of the Hayward Fault. The ground surface elevation at the Site is approximately 12 feet above mean sea level ("feet msl"), based on the City of Emeryville datum. a. Regional None NA The historical San Francisco Bay shoreline was located approximately 1,000 feet west of the Site (USGS, 1899). Fill and development activities conducted since the early 1900's created the westward migration of the shoreline. (Reference: EKI, 2012) Stratigraphy at the Site & Vicinity based on results from this data gap investigation and information from the adjacent Former Marchant/Whitney ("FMW") Site (Figure 1). Ground surface along Horton Street is approximately 14.8 feet msl. • S10 Unit (beneath fill material to -10 feet msl): The S10 Unit is an unconsolidated clayey layer containing sparse thin, discontinuous sandy and gravelly intervals within a fine-grained matrix. Two coarse-grained channels, trending generally east-west, are located to the north and south of the Site. Based on the results of this data gap investigation, the shallow stratigraphy in Horton Street around the Site is described below. • 0 to 2 ft bgs – Asphalt and/or concrete underlain by artificial fill of unconsolidated sandy and grayelly material. • 2 to 10 ft bgs – Silty clay to clayey silt with rare, thin, discontinuous sandy and gravelly intervals. • 7 to 15 ft bgs - Silty to gravelly sand with rare, thin, discontinuous gravel lenses. The lower 10 ft bgs of TSX01X (Figure 2b) is significantly more b. Site & Vicinity gravelly than other boring locations within Horton Street. None NA 4. Geology 1032 Unit (-10 to -32 feet msl): The 1032 Unit contains thick and prevalent sand and gravel intervals within a finer-grained clayey matrix. 3243 Unit (-32 to -43 feet msl): The 3243 Unit is a predominantly fine-grained clay-rich unit. It contains relatively rare discontinuous intervals of sand and gravels. The bottom elevation of the 3243 Unit generally coincides with a geologic unconformity. 4360 Unit (-43 to -60 feet msl) and deeper: The 4360 Unit is a predominantly fine-grained clay-rich unit. It contains a coarser-grained laterally-extensive, tabular sandy layer that is approximately 2 to 8 feet thick that occurs at an approximate elevation of -45 feet msl to the east of the Site, dipping to an elevation of approximately -55 feet msl to the west of the Site along Shellmound Street. Where data could be collected deeper than the 4360 Unit, the data indicate that the sediments encountered below -60 feet msl are predominantly fine grained with local intervals of sandier material, similar to the 4360 Unit. (Reference: Attachment 2 and EKI, 2016b) Stratigraphy Within the UST Excavation Pit: • 0.0 to 1.0 ft bgs - Asphalt c. Within UST 1.0 to 1.5 ft bas – Baserock NA None 1.5 to 7.0 ft bgs – Black and green, silty clay, fill material excavation pit 7.0 to 9.5 ft bgs – Brown and gray, clayey silt, native material (Reference: EKI, 2015b) The Site is located within the East Bay Plain Groundwater Sub-basin of the Santa Clara Valley Groundwater Basin of the San Francisco Bay Hydrologic Region (DWR, 2003). The region has a Mediterranean-type climate with a distinct division between a wet season from November to April, and a dry season during the rest of the year. Normal annual precipitation is about 24 inches (1981-2011 normals, WRCC, 2012). Recharge to the groundwater NΑ a. Regional None system is mostly via infiltration from small streams at the valley margins near the western bounding Diablo Range, and through infiltration occurring in stream channels in the valley floor (Planert & Williams, 1995). Lateral flow from coarse alluvium at the basin margin into local aquifers is restricted by the

None

NA

north-northwest striking Hayward Fault, located approximately 3 miles northeast of the Site (RWQCB, 2003). (Reference: EKI 2012)

The apparent hydraulic gradient direction is generally to the southwest in the S10, 1032, 3243 and 4360 Units based on data from the adjacent FMW Site to the west of the Site. A rose diagram of apparent hydraulic gradient direction in the S10 Unit in the northeast portion of the FMW Site immediately

downgradient of the Site is shown on Figure 4, and the predominant hydraulic gradient direction is to the southwest/south-southwest. A slight upward

hydraulic gradient was also observed between co-located wells in the \$10/1032 Units, 1032/3243 Units, and the 3243/4360 Units on the FMW Site.

5. Hydrogeology

b. Site & Vicinity

(Reference: EKI, 2016b)

TABLE 6 SITE CONCEPTUAL MODEL

Former Horton Street UST 5679 Horton Street, Emeryville, California

SCM Element	SCM Sub-Element	Description	Data Gap (a)	How to Address (a)
6. Surface Water Bodies		The nearest perennial surface drainage to the Site is Temescal Creek, located approximately 1,300 feet to the south. Temescal Creek originates at Lake Temescal in the Berkeley hills, flows partially underground through Berkeley and Emeryville in an engineered channel, and empties into San Francisco Bay near Ohlone Way. (Reference: EKI 2012)	None	NA
7. Nearby Wells		A historical monitoring well, MW-2, was located adjacent to the former Horton Street UST. The well was installed in 1993, and the well was approximately 14 feet deep. Well MW-2 was destroyed on 22 June 2015 in accordance with an Alameda County Public Works Agency ("ACPWA") water resources well permit. Well MW-2 was located within the footprint of the UST excavation. (Reference: EKI 2015b) There are 41 groundwater monitoring wells located to the west of the Site at the adjacent FMW Site. Well depths range from approximately 17 to 70 feet bgs. (Reference: EKI, 2016b) The City of Emeryville Municipal Code Title 6 Chapter 9 prohibits the use of groundwater within the limits of the City of Emeryville as a potable water supply or for any residential, commercial, or industrial use.	None	NA
8. Presence of Free Produc	et	During installation of the historical monitoring well, MW-2, the presence of free product was noted at approximately 4 feet bgs on the boring log. However, free product and groundwater were not observed in the UST excavation pit in June 2015 that extended to 9.5 feet bgs and the extent of the UST excavation encompassed the location of MW-2. (Reference: EKI, 2015b) Free product and sheen were also not observed at boring location TC (Figure 2b), which was located within the former UST excavation pit (Attachment 2).	None	NA
a. Soil		Chemicals of Concern ("COCs") in soil associated with the former Horton Street UST at the Site include total petroleum hydrocarbons ("TPH") as diesel ("TPH-d") and other TPH related compounds based on analytical results from soil samples at the perimeter of the UST excavation pit (Tables 2a to 2c and Figure 2a). The highest concentrations of COCs in soil detected above San Francisco Bay Regional Water Quality Control Board ("SFRWQCB") Environmental Screening Levels ("ESLs") for commercial/industrial land use at the Site are 4,440 milligrams per kilogram ("mg/kg") TPH-d, 5.42 mg/kg naphthalene (VOC), 2.15 mg/kg naphthalene (SVOC), and 8.28 mg/kg 2-methlynaphthalene. (Reference: EKI, 2015b) An additional 12 soil samples were collected at 6 boring locations within Horton Street to the north, west, and south of the UST excavation pit. VOCs were not detected in these soil samples, and TPH-g, TPH-d, and TPH-mo were not detected in these soil samples at concentrations greater than ESLs (Tables 2a to 2b).	None	NA
9. Chemicals of Concern ("COCs")	b. Groundwater	Based on grab groundwater results from boring locations within the former UST excavation pit at the Site and to the north, west and south of the Site, the COCs in groundwater associated with the Site include TPH-d and TPH as motor oil ("TPH-mo"), which were detected at concentrations greater than the commercial/industrial ESLs. TPH as gasoline ("TPH-g") was detected in one grab groundwater sample at a concentration greater than the ESL, but the reported TPH-g concentration did not resemble gasoline (Table 3a). TPH-related VOCs were not detected in grab groundwater samples from these locations (Table 3a). Chlorinated volatile organic compounds ("CVOCs") detected in groundwater at the Site appear to be associated with other sites in the vicinity (see below).	None	NA
	c. Soil Vapor	One soil vapor probe was installed on the western edge of the UST excavation pit and sampled for VOCs (Figure 2b). Analytical results from the first round of soil vapor probe sampling indicate that there are no detectable TPH-related VOCs present in soil gas and there are no detectable CVOCs above commercial/industrial ESLs (Table 4). As in the groundwater, CVOCs detected in soil vapor at the Site appear other sites in the vicinity (see below)	A soil vapor sample representative of the dry season.	An additional soil vapor sample from soil vapor probe TSV01 to be collected in August 2017.
	a. West and Southwest of Site (Downgradient)	The FMW Site at 5679 Horton Street is located immediately to the west and southwest of the Site. The former Marchant Calculating Company manufacturing facility was located on the FMW Site and extended eastward across the Site to Peladeau Street. The FMW Site is immediately downgradient of the Site and is a voluntary cleanup site overseen by the Department of Toxic Substances Control ("DTSC"). COCs in the subsurface include TPH, TPH related compounds, and CVOCs. The highest concentrations of primary COCs detected include: (1) Soil - 6,590 mg/kg total extractable petroleum hydrocarbons ("TEPH") and 4,270 mg/kg trichloroethene ("TCE"), (2) Groundwater - 963 ug/L TEPH and 838,000 ug/L TCE, and (3) Soil Vapor - 32,400,000 micrograms per cubic meter ("ug/m³") TCE. (Reference: EKI, 2016b)	None	NA
10. Other Contaminant Release Sites in Vicinity		The Michel & Pelton ("M&P") Site at 5743 Horton Street is located to the northwest of the Site and was the location of a former agricultural insecticide and disinfectants business. The M&P Site is crossgradient of the Site and is an inactive Spills, Leaks, Investigations, & Cleanups ("SLIC") site overseen by the San Francisco Bay Regional Water Quality Control Board ("SFRWQCB"). COCs in the subsurface include TPH, TPH related compounds, phthalates, phenols, and other VOCs such as CVOCs. (Reference: EKI, 2012; 2016a)	None	NA
	c. East of Site (Upgradient)	The Schwabacher-Frey Inc. Site at 5733 Peladeau Street is located immediately to the east and was the location of a former stationary distributor. The Schwabacher-Frey Site is upgradient of the Site and is a leaking underground storage tank ("LUST") site overseen by ACDEH. COCs in the subsurface include TPH-d and TPH related compounds. (Reference: EKI, 2015c)	None	NA

TABLE 6

SITE CONCEPTUAL MODEL

Former Horton Street UST 5679 Horton Street, Emeryville, California

SCM Element	SCM Sub-Element	Description	Data Gap (a)	How to Address (a)
	a. Beneath Site and in Excavation Pit	Boring location TC is located directly in the middle of the UST excavation pit (Figure 2a). Analytical results from a grab groundwater sample at this location (TC-4.5-14.5) indicate that: (1) TPH-d and TPH-mo in groundwater were detected at concentrations greater than the ESLs (818 ug/L TPH-d and 419 ug/L TPH-mo) (Table 3a and Figures 3a and 3b) and (2) TPH-related VOCs were not detected (Table 3a). Sampling location H-H is located in Horton Street immediately adjacent to the former Horton Street UST (Figure 2a). Grab groundwater sampling at this location was conducted as part of investigation activities for other sites in the vicinity. Grab groundwater sampling activities at H-H were completed prior to discovery of the former Horton Street UST and at depths deeper than the UST excavation pit or grab groundwater sampling intervals during the data gap investigation. Available data indicate that: (1) TPH-d was detected at a concentration of 403 ug/L in H-H-19-24 but TPH-related VOCs were not detected, (2) benzene (2.92 ug/L) and naphthalene (35.9 ug/L) were detected at concentrations above the SFRWQCB ESLs in a deeper grab groundwater (H-H-28-32), and (3) TPH-related VOCs were not detected in the deepest grab groundwater sample (H-H-58-62). (Reference: EKI, 2016a)	None	NA
	b. West to South- Southwest in Horton Street (Downgradient)	Boring locations TW and TSW are located in Horton Street generally to the southwest and south-southwest of the Site, respectively (Figure 2b). The highest concentrations of TPH-d and TPH-mo detected in grab groundwater samples from these locations were 369 ug/L and 185 ug/L, respectively, and were both detected at TW (Table 3a and Figures 3a and 3b).	None (see Item 11d)	NA
d. Do	c. North & South in Horton Street	Boring location TN is located in Horton Street to the north of the Site, and boring locations TS, TSX01, TSX02, and TSX01X are located in Horton Street to the south of the Site (Figure 2b). In the grab groundwater sample collected at location TN, TPH-d was detected at a concentration of 109 ug/L, slightly above the ESL of 100 ug/L, and TPH-mo was detected at a concentration of 95 ug/L, slightly below the ESL of 100 ug/L (Table 3a and Figures 3a to 3b). The highest concentrations of TPH-d and TPH-mo detected in grab groundwater samples from southern locations were 284 ug/L and 127 ug/L, respectively from location TSX01X (Table 3a and Figures 3a to 3b). TPH-related VOCs were not detected in grab groundwater samples collected from any of these locations. Along Horton Street, sampling locations H-G and H-I are located approximately 70 feet to the north and 60 feet to the south, respectively, of the former Horton Street UST (Figure 2b). Grab groundwater sampling at these locations was conducted as part of investigation activities for other sites in the vicinity. Available data indicate that: (1) TPH-d and TPH-related VOCs were not detected in shallow grab groundwater samples at these locations (H-G-19-22 and H-I-22-26) and (2) TPH-related VOCs were also not detected in deeper grab groundwater samples at these locations (H-G-36-40, H-G-60-65, H-I-29-33, H-I-42-46, and H-I-58-62) (Attachment 3). (Reference: EKI, 2016a)	None (see Item 11d)	NA
	d. Further Downgradient on the FMW Site d. Further Downgradient on the Ignure 3a). Although TPH-mo was detected in shallow groundwater at concentrations greater than screening criteria in Horton Street downgradient of the UST excavation pit, TPH-mo was not detected further downgradient on the FMW Site (Figure 3b).	None	NA	

Abbreviations:

ACDEH = Alameda County Department of Environmental Health

FMW = Former Marchant/Whitney Site

ft bgs = feet below ground surface

MTBE = methyl tertiary butyl ether

TPH-(g/d/mo) = total petroleum hydrocarbons as (gasoline/diesel/motor oil)

UST = underground storage tank

VOCs = volatile organic compounds

- (1) ACDEH, 2016. Request for Data Gap Work Plan Addendum; Fuel Leak Case No. RO0003185 and GeoTracker Global ID T10000007323, Horton Street UST, 5679 Horton Street, Emeryville, CA 94608, 27 September 2016.
- (2) DWR, 2003. California's Groundwater: Bulletin 118, Update 2003. California Department of Water Resources, Sacramento, CA.
- (3) EKI, 2012. Final Subsurface Environmental Investigations Report, Former Marchant/Whitney Site, 5679 Horton Street, Emeryville, California, August 2012.
- (4) EKI, 2015a. Underground Storage Tank Closure Plan, 5679 Horton Street, Emeryville, California, 14 April 2015.
- (5) EKI, 2015b. *Underground Storage Tank Closure Report*, In Public Right-of-Way on Horton Street Adjacent to 5679 Horton Street, Emeryville, California, 17 August 2015.
- (6) EKI, 2015c. Results of Soil and Groundwater Investigation, Schwabacher-Frey Site, 5733 Peladeau Street, Emeryville, California, 5 October 2015.
- (7) EKI, 2016a. *Final Additional Groundwater Investigation and Groundwater Monitoring Report*, Site B Project Area, Emeryville, California, June 2016. (8) EKI, 2016b. *Final Remedial Investigation Report*, Former Marchant/Whitney Site, 5679 Horton Street, Emeryville, California, June 2016.
- (9) RWQCB, 2003, A Comprehensive Groundwater Protection Evaluation for the South San Francisco Bay Basins. Report prepared by the Groundwater Committee of the California Regional Water Quality Control Board, San Francisco Bay Region.
- (10) WRCC, 2012, Period of Record Monthly Climate Summary: 10/1/1970 to 2/26/2012, Oakland Museum, California, Station ID No. 046336, accessed March 2012. (http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6336)
- (12) USGS, 1899, San Francisco Quadrangle. U.S. Geological Survey Topographic Map Series, February 1899 edition, scale 1:62,500.
- (13) Request for Data Gap Work Plan Addendum; Fuel Leak Case No. R00003185 and GeoTracker Global ID T10000007323, Horton Street UST, 5679 Horton Street, Emeryville, CA, 27 September 2016.

Erler & Kalinowski, Inc.

TABLE 7 EVALUATION OF LOW THREAT CLOSURE POLICY CRITERIA

Former Horton Street UST 5679 Horton Street, Emeryville, California

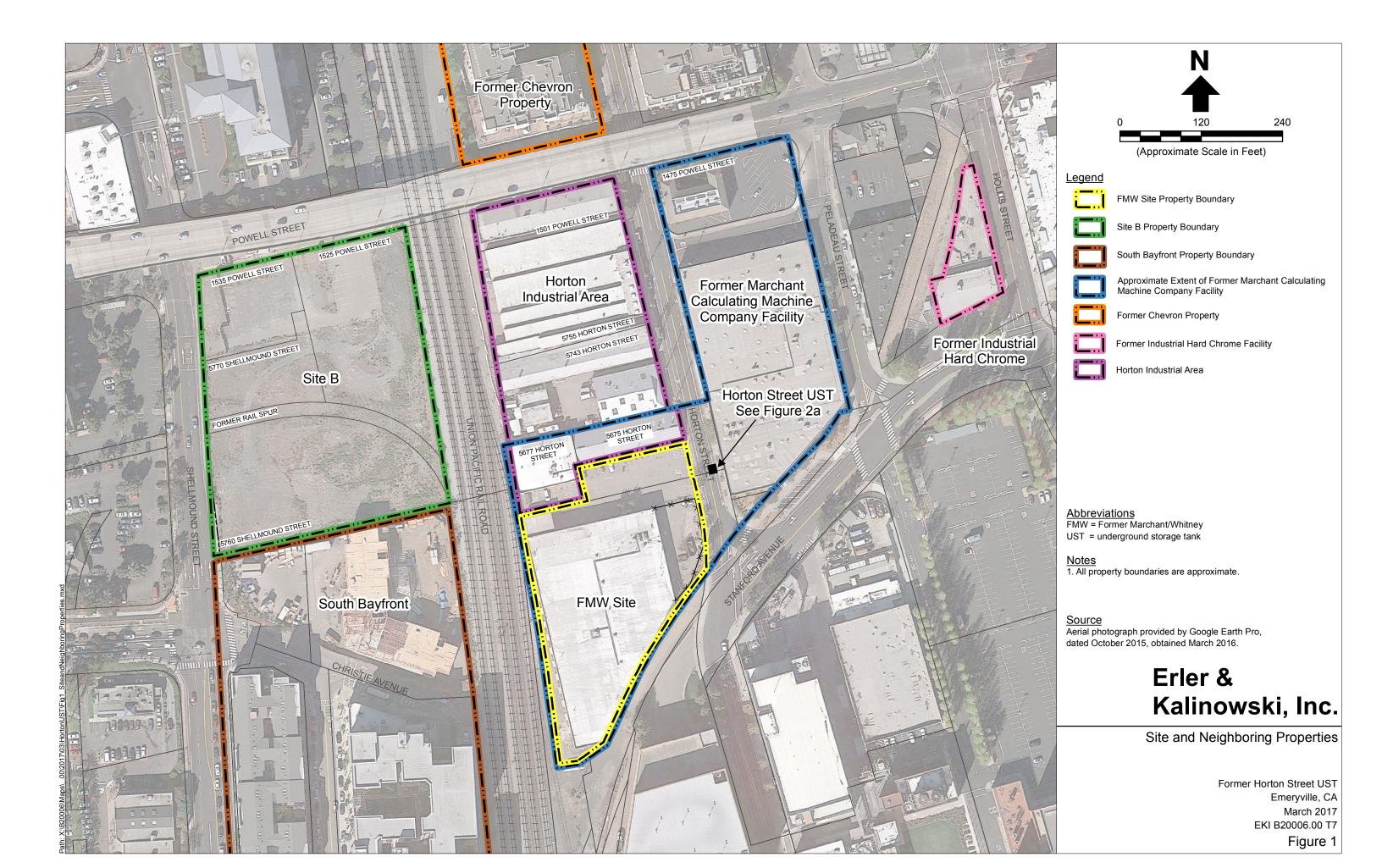
Criteria	Criteria Description	Criteria Met?	Basis
	a. The unauthorized release is located within the service area of a public water system.	Yes	Public water service in Emeryville provided by East Bay Municipal Utility District ("EBMUD").
	b. The unauthorized release consists only of petroleum.	Yes	See SCM Element 3 and 9 on Table 6.
	c. The unauthorized ("primary") release from the UST system has been stopped.	Yes	See SCM Element 3 on Table 6.
Criteria	d. Free product has been removed to the maximum extent practicable.	Yes	See SCM Element 8 on Table 6.
General C	e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed.	Yes	See SCM on Table 6.
	f. Secondary source has been removed to the extent practicable.	Yes	See SCM Element 3 on Table 6. Additional excavation beyond the extent of the former Horton Street UST was conducted to the extent practicable given the location in the public-right-of way and adjacent utilities (Figure 2a).
	g. Soil or groundwater has been tested for methyl tert-butyl ether ("MTBE") and results reported in accordance with Health and Safety Code section 25296.15.	Yes	See SCM Element 9a and 9b on Table 6, and Tables 3a and 4.
	h. Nuisance as defined by Water Code section 13050 does not exist at the site.	Yes	See SCM Element 1 on Table 6.
ıria	1. Groundwater	Yes	See SCM Element 11 on Table 6.
ific Criteria	2. Petroleum Vapor Intrusion to Indoor Air	No	See SCM Element 9c on Table 6. One additional soil vapor sample will be collected in August 2017 to be representative of the dry season.
Media-Specific	3. Direct Contact and Outdoor Air Exposure	Yes	See SCM Element 9a on Table 6 and Tables 2a to 2c. Concentrations of benzene, ethylbenzene, naphthalene, and polycyclic aromatic hydrocarbons ("PAHs") as benzo(a)pyrene toxicity equivalent ("BaPe") in soil samples collected within 0 to 10 feet bgs at the Site are less than concentrations specified in the LCTP Table 1 - Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health for the applicable commercial/industrial and utility worker scenarios (Reference: RWQCB, 2012).

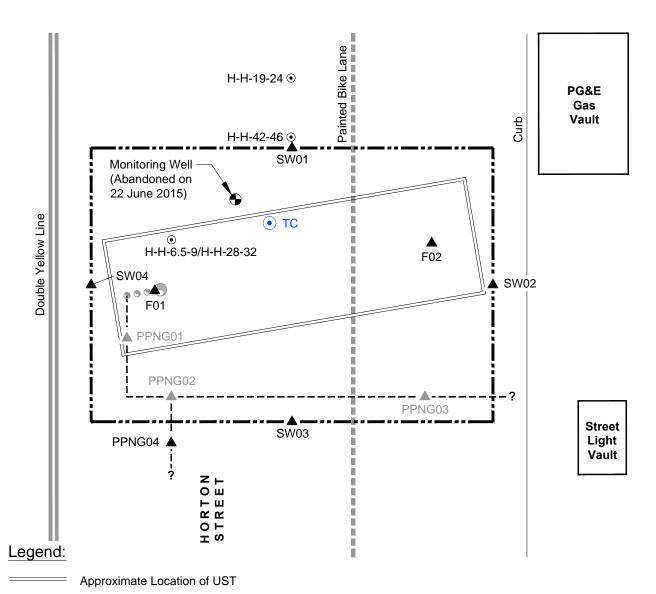
References:

EKI B20006.00 T7

(1) EKI, 2015b. *Underground Storage Tank Closure Report*, In Public Right-of-Way on Horton Street Adjacent to 5679 Horton Street, Emeryville, California, 17 August 2015.

(2) RWQCB, 2012. Low-threat Underground Storage Tank Case Closure Policy, 17 August 2012.





Approximate Limit of UST Excavation Pit

----- Approximate Location of Associated UST Piping

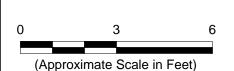
- UST Fuel, Product, and Vent Ports
- Grab Groundwater Sampling Location
- CPT and Grab Groundwater Sampling Location
- ▲ Confirmation Soil Sampling Location

Abbreviations:

UST = underground storage tank

Notes:

- 1. All locations are approximate.
- 2. Grayed out confirmation soil sample locations have been over-excavated during UST demolition activities.



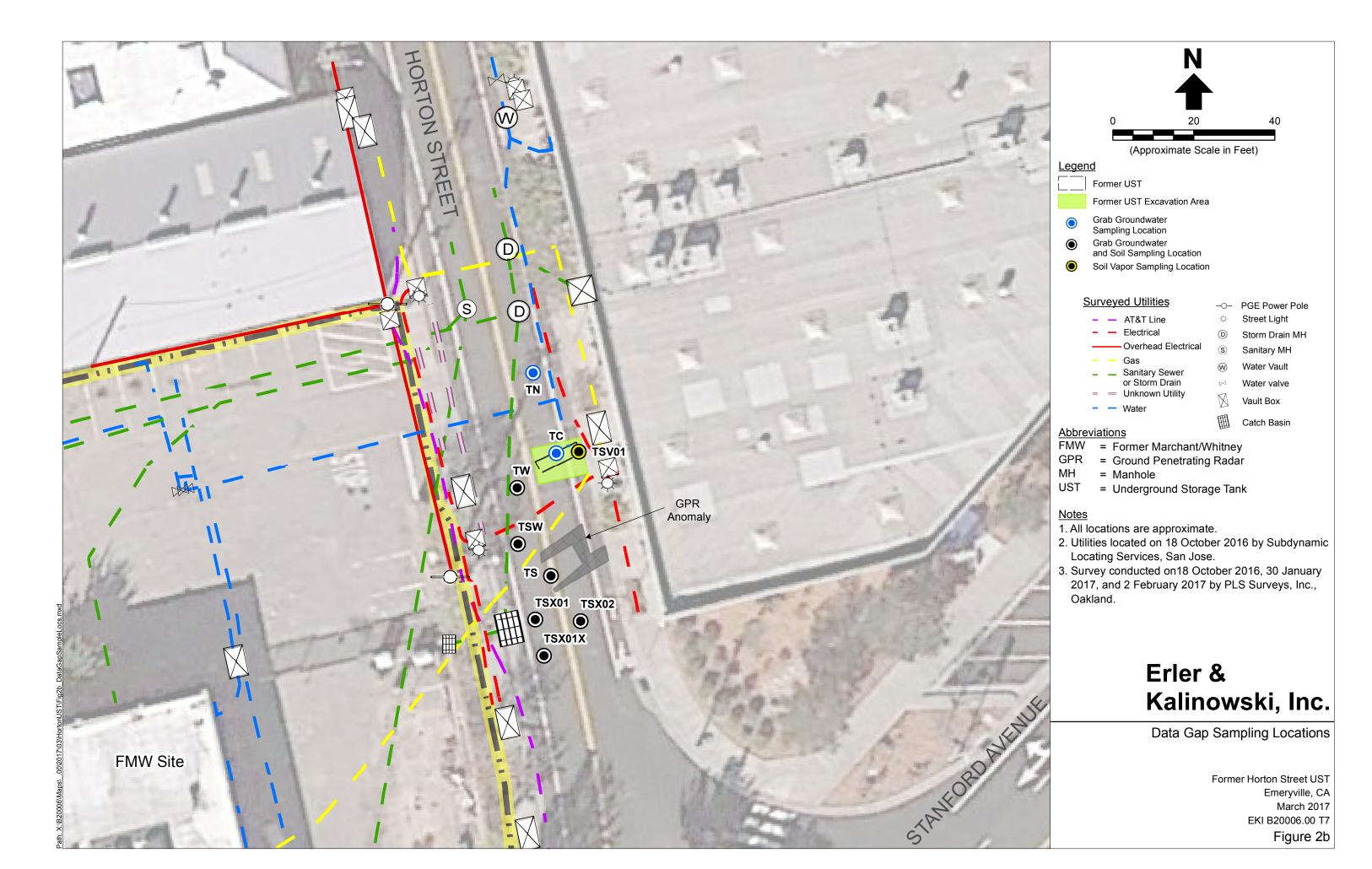


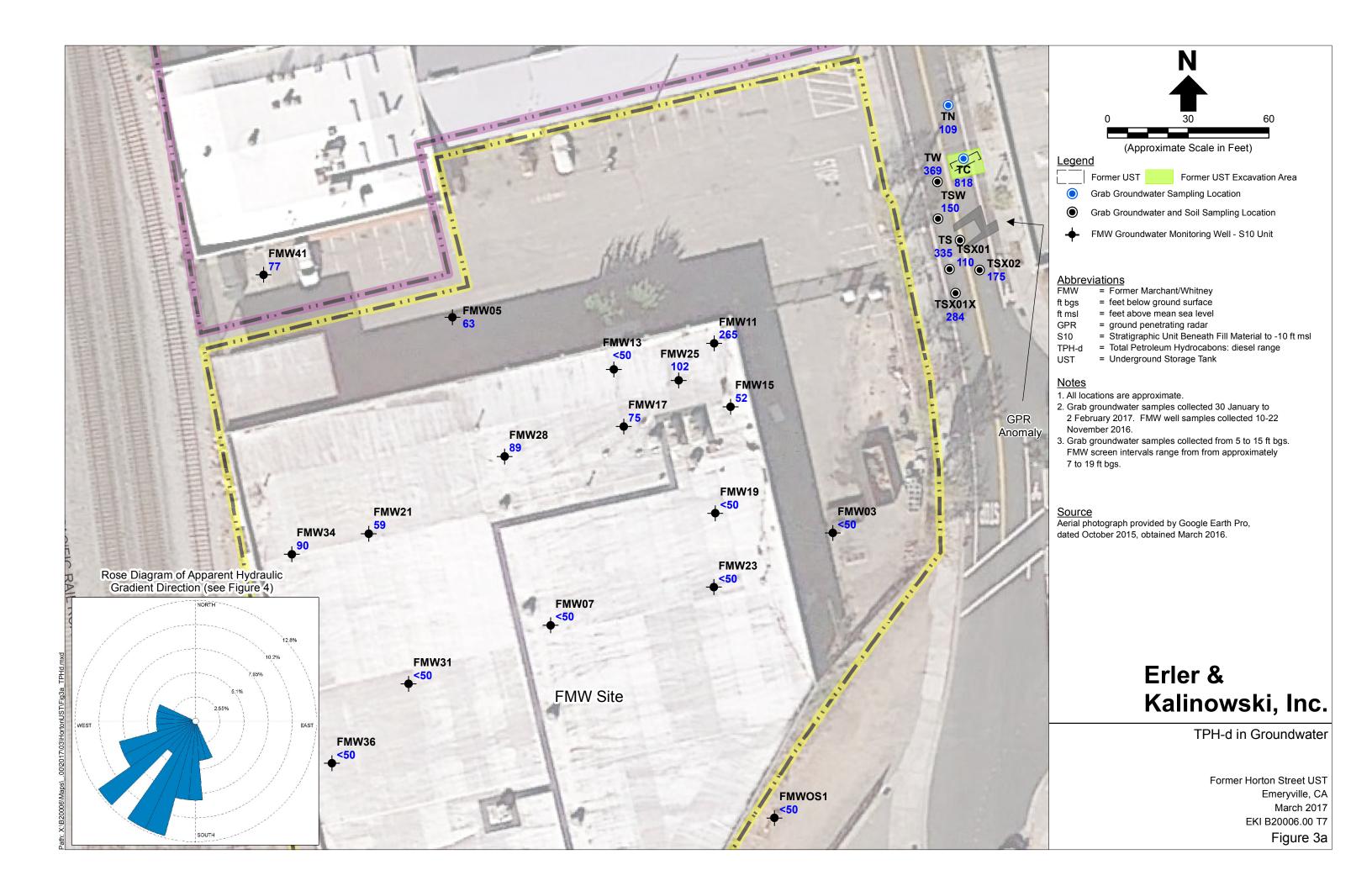
Erler & Kalinowski, Inc.

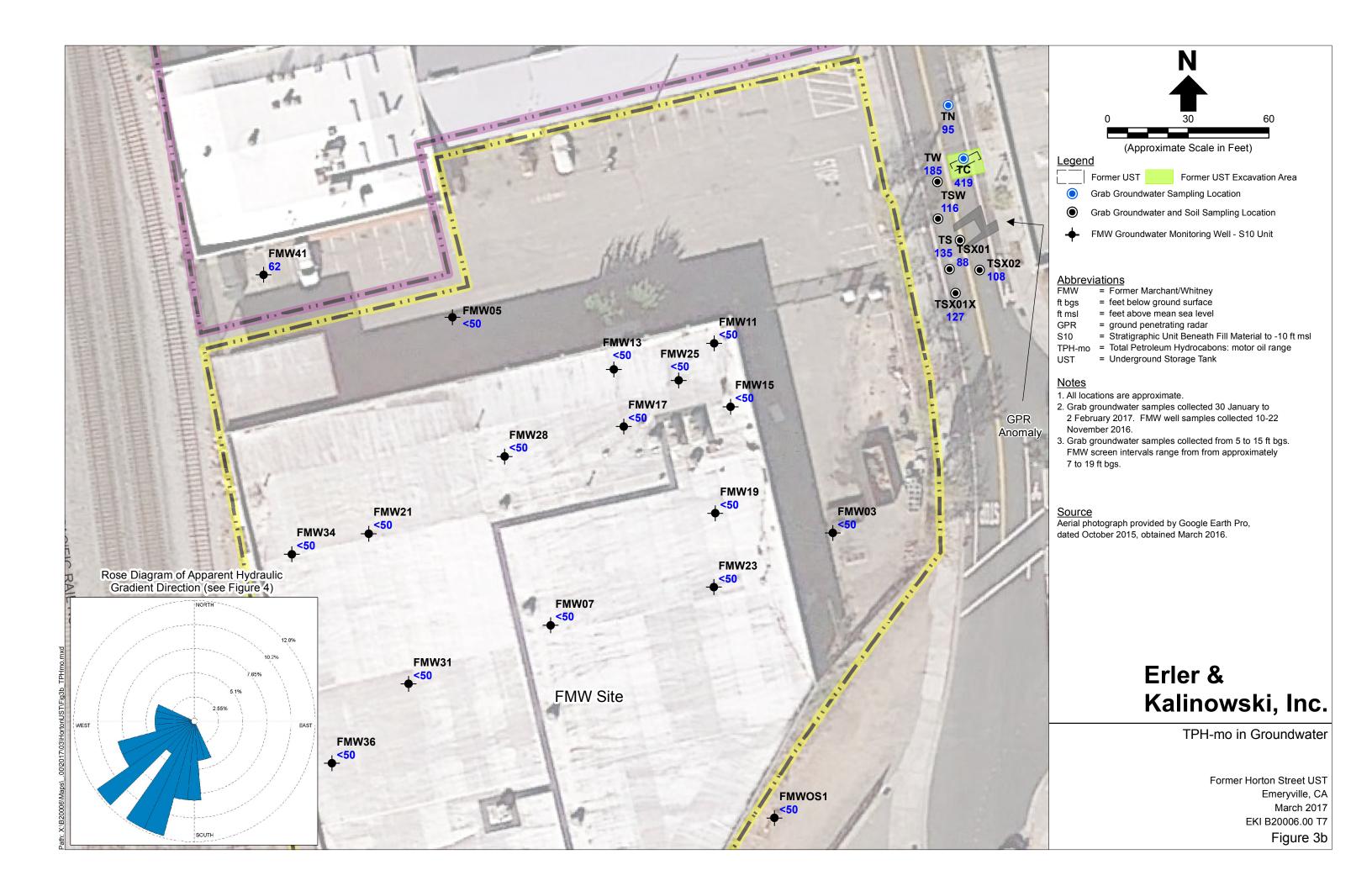
UST Excavation Area Sampling Locations

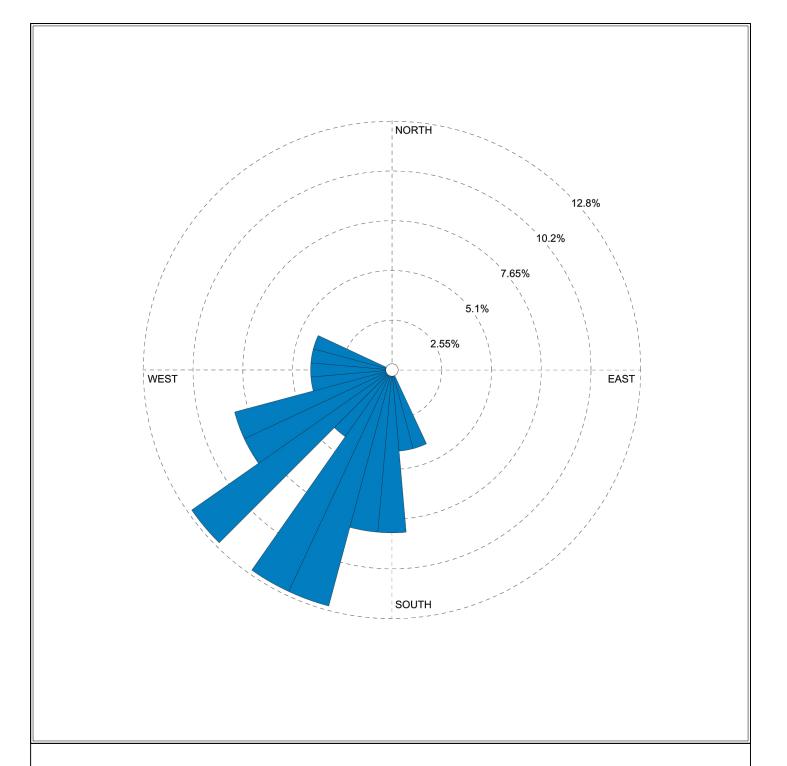
Former Horton Street UST Emeryville, CA March 2017 EKI B20006.00

Figure 2a









Abbreviations:

FMW = Former Marchant/Whitney UST = Underground Storage Tank

Notes:

- This figure presents a graphical summary of the apparent hydraulic gradient direction of compiled from water level data from wells located in the northeast portion the adjacent Former Marchant/Whitney site, located to the west and southwest of the Former Horton Street UST. Water level data for this figure was collected July 2015, September 2015, November 2016, and January 2017.
- This figure was compiled using WRPLOT View, Version 8.0.0 by Lakes Environmental.

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Rose Diagram of Apparent Hydraulic Gradient Direction at Site Vicinity

> Former Horton Street UST Emeryville, CA March 2017 EKI B20006.00

> > Figure 4



ATTACHMENT 1

Laboratory Analytical Reports Including Chain-of-Custody Records

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.

Santa Rosa CA 95403

Phone: 707 527 7574 FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/2/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST MR. KEL MITCHELL

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

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jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com RAKM 021212017

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
TW-3.5-4.0	SOIL	1/30/2017	12:30	151126
TSW-3.5-4.0	SOIL	1/30/2017	14:00	151128
TSW-6.5-7.0	SOIL	1/30/2017	14:45	151129

The above listed sample group was received on on the chain of custody document.

1/30/2017 and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS-DRY WEIGHT

REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL

UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	ID	ANALYZED		CONC	PATTERN
TW-3.5-4.0	151126	01/30/2017	12:30	012317S1	01/31/2017	1.00	ND	
TSW-3.5-4.0	151128	01/30/2017	14:00	012317S1	01/31/2017	1.00	ND	
TSW-6.5-7.0	151129	01/30/2017	14:45	012317S1	01/31/2017	1.00	ND	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY:

DATE: 02/02/17

SAMPLE ID: TW-3.5-4.0 LAB NO: 151126 DATE SAMPLED: 01/30/2017 TIME SAMPLED: 12:30 BATCH NO: 011817S1 DATE ANALYZED: 01/31/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.57	ND
CHLOROMETHANE	74-87-3	1.57	ND
VINYL CHLORIDE	75-01-4	1.57	ND
BROMOMETHANE	74-83-9	1.57	ND
CHLOROETHANE	75-00-3	1.57	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.57	ND
1,1-DICHLOROETHENE	75-35-4	1.57	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.57	ND
METHYLENE CHLORIDE	75-09-2	7.83	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.57	ND
1,1-DICHLOROETHANE	75-34-3	1.57	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.57	ND
2,2-DICHLOROPROPANE	594-20-7	1.57	ND
BROMOCHLOROMETHANE	74-97-5	1.57	ND
CHLOROFORM	67-66-3	1.57	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.57	ND
CARBON TETRACHLORIDE	56-23-5	1.57	ND
1,1-DICHLOROPROPENE	563-58-6	1.57	ND
BENZENE	71-43-2	1.57	ND
1,2-DICHLOROETHANE	107-06-2	1.57	ND
TRICHLOROETHENE	79-01-6	1.57	ND
1,2-DICHLOROPROPANE	78-87-5	1.57	ND
DIBROMOMETHANE	74-95-3	1.57	ND
BROMODICHLOROMETHANE	75-27-4	1.57	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.57	ND
TOLUENE	108-88-3	1.57	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.57	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.57	ND
TETRACHLOROETHENE	127-18-4	1.57	ND
1,3-DICHLOROPROPANE	142-28-9	1.57	ND
DIBROMOCHLOROMETHANE	124-48-1	1.57	ND
1,2-DIBROMOETHANE	106-93-4	1.57	ND
CHLOROBENZENE	108-90-7	1.57	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.57	ND
ETHYLBENZENE	100-41-4	1.57	ND
XYLENE (M+P)	1330-20-7	1.57	ND
XYLENE (O)	1330-20-7	1.57	ND
STYRENE	100-42-5	1.57	ND
BROMOFORM	75-25-2	1.57	ND
ISOPROPYLBENZENE	98-82-8	1.57	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.57	ND
BROMOBENZENE	108-86-1	1.57	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.57	ND
N-PROPYLBENZENE	103-65-1	1.57	ND
2-CHLOROTOLUENE	95-49-8	1.57	ND

SAMPLE ID: TW-3.5-4.0 LAB NO: 151126 DATE SAMPLED: 01/30/2017 TIME SAMPLED: 12:30 BATCH NO: 011817S1 DATE ANALYZED: 01/31/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.57	ND
4-CHLOROTOLUENE	106-43-4	1.57	ND
TERT-BUTYLBENZENE	98-06-6	1.57	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.57	ND
SEC-BUTYLBENZENE	135-98-8	1.57	ND
1,3-DICHLOROBENZENE	541-73-1	1.57	ND
4-ISOPROPYLTOLUENE	99-87-6	1.57	ND
1,4-DICHLOROBENZENE	106-46-7	1.57	ND
N-BUTYLBENZENE	104-51-8	1.57	ND
1,2-DICHLOROBENZENE	95-50-1	1.57	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.57	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.13	ND
HEXACHLOROBUTADIENE	87-68-3	3.13	ND
NAPHTHALENE	91-20-3	3.13	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.13	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.57	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	95
PERCENT MOISTURE	17.6

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.69	ND
CHLOROMETHANE	74-87-3	1.69	ND
VINYL CHLORIDE	75-01-4	1.69	ND
BROMOMETHANE	74-83-9	1.69	ND
CHLOROETHANE	75-00-3	1.69	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.69	ND
1,1-DICHLOROETHENE	75-35-4	1.69	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.69	ND
METHYLENE CHLORIDE	75-09-2	8.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.69	ND
1,1-DICHLOROETHANE	75-34-3	1.69	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.69	ND
2,2-DICHLOROPROPANE	594-20-7	1.69	ND
BROMOCHLOROMETHANE	74-97-5	1.69	ND
CHLOROFORM	67-66-3	1.69	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.69	ND
CARBON TETRACHLORIDE	56-23-5	1.69	ND
1,1-DICHLOROPROPENE	563-58-6	1.69	ND
BENZENE	71-43-2	1.69	ND
1,2-DICHLOROETHANE	107-06-2	1.69	ND
TRICHLOROETHENE	79-01-6	1.69	ND
1,2-DICHLOROPROPANE	78-87-5	1.69	ND
DIBROMOMETHANE	74-95-3	1.69	ND
BROMODICHLOROMETHANE	75-27-4	1.69	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.69	ND
TOLUENE	108-88-3	1.69	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.69	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.69	ND
TETRACHLOROETHENE	127-18-4	1.69	ND
1,3-DICHLOROPROPANE	142-28-9	1.69	ND
DIBROMOCHLOROMETHANE	124-48-1	1.69	ND
1,2-DIBROMOETHANE	106-93-4	1.69	ND
CHLOROBENZENE	108-90-7	1.69	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.69	ND ND
ETHYLBENZENE	100-41-4	1.69	ND
XYLENE (M+P)	1330-20-7	1.69	ND
XYLENE (O)	1330-20-7	1.69	ND
STYRENE	100-42-5	1.69	ND
BROMOFORM	75-25-2	1.69	ND
ISOPROPYLBENZENE	98-82-8	1.69	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.69	ND
BROMOBENZENE	108-86-1	1.69	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.69	ND
N-PROPYLBENZENE	103-65-1	1.69	ND
2-CHLOROTOLUENE	95-49-8	1.69	ND

SAMPLE ID: TSW-3.5-4.0 **LAB NO:** 151128 **DATE SAMPLED:** 01/30/2017 TIME SAMPLED: 14:00 **BATCH NO:** 011817S1

DATE ANALYZED: 01/31/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL

UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.69	ND
4-CHLOROTOLUENE	106-43-4	1.69	ND
TERT-BUTYLBENZENE	98-06-6	1.69	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.69	ND
SEC-BUTYLBENZENE	135-98-8	1.69	ND
1,3-DICHLOROBENZENE	541-73-1	1.69	ND
4-ISOPROPYLTOLUENE	99-87-6	1.69	ND
1,4-DICHLOROBENZENE	106-46-7	1.69	ND
N-BUTYLBENZENE	104-51-8	1.69	ND
1,2-DICHLOROBENZENE	95-50-1	1.69	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.69	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.39	ND
HEXACHLOROBUTADIENE	87-68-3	3.39	ND
NAPHTHALENE	91-20-3	3.39	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.39	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.69	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	110
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	93
PERCENT MOISTURE	22.7

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: TSW-6.5-7.0 **LAB NO:** 151129 **DATE SAMPLED:** 01/30/2017 TIME SAMPLED: 14:45 **BATCH NO:** 011817S1 **DATE ANALYZED:** 01/31/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.64	ND
CHLOROMETHANE	74-87-3	1.64	ND
VINYL CHLORIDE	75-01-4	1.64	ND
BROMOMETHANE	74-83-9	1.64	ND
CHLOROETHANE	75-00-3	1.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.64	ND
1,1-DICHLOROETHENE	75-35-4	1.64	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.64	ND
METHYLENE CHLORIDE	75-09-2	8.19	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.64	ND
1,1-DICHLOROETHANE	75-34-3	1.64	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.64	ND
2,2-DICHLOROPROPANE	594-20-7	1.64	ND
BROMOCHLOROMETHANE	74-97-5	1.64	ND
CHLOROFORM	67-66-3	1.64	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.64	ND
CARBON TETRACHLORIDE	56-23-5	1.64	ND
1,1-DICHLOROPROPENE	563-58-6	1.64	ND
BENZENE	71-43-2	1.64	ND
1,2-DICHLOROETHANE	107-06-2	1.64	ND
TRICHLOROETHENE	79-01-6	1.64	ND
1,2-DICHLOROPROPANE	78-87-5	1.64	ND
DIBROMOMETHANE	74-95-3	1.64	ND
BROMODICHLOROMETHANE	75-27-4	1.64	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.64	ND
TOLUENE	108-88-3	1.64	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.64	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.64	ND
TETRACHLOROETHENE	127-18-4	1.64	ND
1,3-DICHLOROPROPANE	142-28-9	1.64	ND
DIBROMOCHLOROMETHANE	124-48-1	1.64	ND
1,2-DIBROMOETHANE	106-93-4	1.64	ND
CHLOROBENZENE	108-90-7	1.64	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.64	ND
ETHYLBENZENE	100-41-4	1.64	ND
XYLENE (M+P)	1330-20-7	1.64	ND
XYLENE (O)	1330-20-7	1.64	ND
STYRENE	100-42-5	1.64	ND
BROMOFORM	75-25-2	1.64	ND ND
ISOPROPYLBENZENE	98-82-8	1.64	ND NB
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.64	ND
BROMOBENZENE	108-86-1	1.64	ND ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.64	ND
N-PROPYLBENZENE	103-65-1	1.64	ND
2-CHLOROTOLUENE	95-49-8	1.64	ND

SAMPLE ID: TSW-6.5-7.0 **LAB NO:** 151129 **DATE SAMPLED:** 01/30/2017 TIME SAMPLED: 14:45 **BATCH NO:** 011817S1 **DATE ANALYZED:** 01/31/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** SOIL

REFERENCE: EPA 5035/8260 **UNITS:** μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.64	ND
4-CHLOROTOLUENE	106-43-4	1.64	ND
TERT-BUTYLBENZENE	98-06-6	1.64	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.64	ND
SEC-BUTYLBENZENE	135-98-8	1.64	ND
1,3-DICHLOROBENZENE	541-73-1	1.64	ND
4-ISOPROPYLTOLUENE	99-87-6	1.64	ND
1,4-DICHLOROBENZENE	106-46-7	1.64	ND
N-BUTYLBENZENE	104-51-8	1.64	ND
1,2-DICHLOROBENZENE	95-50-1	1.64	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.64	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.28	ND
HEXACHLOROBUTADIENE	87-68-3	3.28	ND
NAPHTHALENE	91-20-3	3.28	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.28	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.64	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	105
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	95
PERCENT MOISTURE	20.7

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: 02/02/1)

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO

SAMPLE TYPE: SOIL

REFERENCE: EPA 8015B

UNITS: mg/Kg dry weight

SAM	PLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	DRO
	* t		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TW-3	3.5-4.0	151126	01/30/2017	012317S1	01/31/2017	02/01/2017	12.1	ND	
TSW-	3.5-4.0	151128	01/30/2017	012317S1	01/31/2017	02/01/2017	12.9	ND	
TSW-	6.5-7.0	151129	01/30/2017	012317S1	01/31/2017	02/01/2017	12.6	ND	

NOTES:

DRO Diesel Range Organics (C12-C23) ND Not Detected at or above the stated MRL NA Not Applicable or Available MRL Method Reporting Limit ΑD Typical Pattern for Diesel Hydrocarbon response is in the C12-C22 range ΑM AC Heavier hydrocarbons contributing to diesel range quantitation ΑJ Heavier hydrocarbon than diesel ΑK Lighter hydrocarbon than diesel Unknown hydrocarbon with a single peak ΑE ΑN Unknown hydrocarbon with several peaks

APPROVED BY: 02/62/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: HRO

SAMPLE TYPE: SOIL

REFERENCE: EPA 8015B

UNITS: mg/Kg dry weight

S	AMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	HRO
			SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
T\	N-3.5-4.0	151126	01/30/2017	012317S1	01/31/2017	02/01/2017	12.1	ND	
TS	W-3.5-4.0	151128	01/30/2017	012317S1	01/31/2017	02/01/2017	12.9	ND	
TS	W-6.5-7.0	151129	01/30/2017	012317S1	01/31/2017	02/01/2017	12.6	ND	

NOTES:

HRO Heavy Range Organics (C24-C34)

ND Not Detected at or above the stated MRL

NA Not Applicable or Available MRL Method Reporting Limit

Unknown hydrocarbon with a single peak ΑE ΑN Unknown hydrocarbon with several peaks

APPROVED BY: 2/02/1/2

K PRIME, INC.

LABORATORY REPORT

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD:

PERCENT MOISTURE

SAMPLE TYPE: SOIL

REFERENCE: ASTM D 2216-05

UNITS: %

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE
		SAMPLED	SAMPLED	ID	ANALYZED		CONC
TW-3.5-4.0	151126	01/30/2017	12:30	013117S1	02/01/2017	0.100	17.6
TSW-3.5-4.0	151128	01/30/2017	14:00	013117S1	02/01/2017	0.100	22.7
TSW-6.5-7.0	151129	01/30/2017	14:45	013117S1	02/01/2017	0.100	20.7

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT AVAILABLE OR APPLICABLE MRL - METHOD REPORTING LIMIT

APPROVED BY: 02/02/17

K PRIME, INC. LABORATORY QUALITY CONTROL REPORT

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

METHOD BLANK ID: B012317S1

BATCH #: 012317S1 **SAMPLE TYPE:** SOIL

UNITS: mg/Kg

DATE EXTRACTED: 01/23/2017 **DATE ANALYZED:** 01/23/2017

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT AVAILABLE OR APPLICABLE

> **SAMPLE ID:** L012317S1 **DUPLICATE ID:** D012317S1 **BATCH #:** 012317S1 **SAMPLE TYPE: SOIL**

UNITS: mg/Kg

DATE EXTRACTED: 01/23/2017 **DATE ANALYZED:** 01/23/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	5.00	ND	4.87	97	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	1.00	4.87	4.74	2.7	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

METHOD BLANK ID: B011817S1 BATCH NO: 011817S1 DATE ANALYZED: 01/18/2017

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL REFERENCE: EPA 5035/8260 UNITS: $\mu g/Kg$

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.50	ND
CHLOROMETHANE	74-87-3	1.50	ND
VINYL CHLORIDE	75-01-4	1.50	ND
BROMOMETHANE	74-83-9	1.50	ND
CHLOROETHANE	75-00-3	1.50	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.50	ND
1,1-DICHLOROETHENE	75-35-4	1.50	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.50	ND
METHYLENE CHLORIDE	75-09-2	7.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.50	ND
1,1-DICHLOROETHANE	75-34-3	1.50	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.50	ND
2,2-DICHLOROPROPANE	594-20-7	1.50	ND
BROMOCHLOROMETHANE	74-97-5	1.50	ND
CHLOROFORM	67-66-3	1.50	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.50	ND
CARBON TETRACHLORIDE	56-23-5	1.50	ND
1,1-DICHLOROPROPENE	563-58-6	1.50	ND
BENZENE	71-43-2	1.50	ND
1,2-DICHLOROETHANE	107-06-2	1.50	ND
TRICHLOROETHENE	79-01-6	1.50	ND
1,2-DICHLOROPROPANE	78-87-5	1.50	ND
DIBROMOMETHANE	74-95-3	1.50	ND
BROMODICHLOROMETHANE	75-27-4	1.50	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.50	ND
TOLUENE	108-88-3	1.50	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.50	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.50	ND
TETRACHLOROETHENE	127-18-4	1.50	ND
1,3-DICHLOROPROPANE	142-28-9	1.50	ND
DIBROMOCHLOROMETHANE	124-48-1	1.50	ND
1,2-DIBROMOETHANE	106-93-4	1.50	ND
CHLOROBENZENE	108-90-7	1.50	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.50	ND
ETHYLBENZENE	100-41-4	1.50	ND
XYLENE (M+P)	1330-20-7	1,50	ND
XYLENE (O)	1330-20-7	1.50	ND
STYRENE	100-42-5	1.50	ND
BROMOFORM	75-25-2	1.50	ND
ISOPROPYLBENZENE	98-82-8	1.50	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.50	ND
BROMOBENZENE	108-86-1	1.50	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.50	ND
N-PROPYLBENZENE	103-65-1	1.50	ND
2-CHLOROTOLUENE	95-49-8	1.50	ND

METHOD BLANK ID: B011817S1 BATCH NO: 011817S1 DATE ANALYZED: 01/18/2017

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL REFERENCE: EPA 5035/8260 UNITS: $\mu g/Kg$

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.50	ND
4-CHLOROTOLUENE	106-43-4	1.50	ND
TERT-BUTYLBENZENE	98-06-6	1.50	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.50	ND
SEC-BUTYLBENZENE	135-98-8	1.50	ND
1,3-DICHLOROBENZENE	541-73-1	1.50	ND
4-ISOPROPYL T OLUENE	99-87-6	1.50	ND
1,4-DICHLOROBENZENE	106-46-7	1.50	ND
N-BUTYLBENZENE	104-51-8	1.50	ND
1,2-DICHLOROBENZENE	95-50-1	1.50	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.50	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.00	ND
HEXACHLOROBUTADIENE	87-68-3	3.00	ND
NAPHTHALENE	91-20-3	3.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.50	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	103
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	89

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B011817S1 **SPIKE ID:** L011817S1 **DUPLICATE ID: D011817S1**

BATCH NO: 011817S1

SAMPLE TYPE: SOIL

UNITS: μg/Kg

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5035/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	30.0	ND	24.2	81	60-140
BENZENE	30.0	ND	30.2	101	60-140
TRICHLOROETHENE	30.0	ND	31.0	103	60-140
TOLUENE	30.0	ND	30.7	102	60-140
CHLOROBENZENE	30.0	ND	30.4	101	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	1.50	24.2	26.2	8.0	±20
BENZENE	1.50	30.2	30.6	1.2	±20
TRICHLOROETHENE	1.50	31.0	31.3	1.1	±20
TOLUENE	1.50	30.7	32.5	5.7	±20
CHLOROBENZENE	1.50	30.4	31.4	3.0	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC. LABORATORY QUALITY CONTROL REPORT

BATCH ID: 012317S1 **DATE EXTRACTED:** 01/23/2017

DATE ANALYZED: 01/23/2017

METHOD: DRO

SAMPLE TYPE:

SOIL

REFERENCE: EPA 8015B

UNITS: mg/Kg

METHOD BLANK ID: B012317S1

COMPOUND NAME	REPORTING	SAMPLE
	LIMIT	CONC
DRO	10.0	ND

SAMPLE ID: L012317S1

DUPLICATE ID: D012317S1

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	500	ND	467	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	10.0	467	464	0.6	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

SAMPLE ID: 151129 DUPLICATE ID: 151129DUP METHOD BLANK ID: B013117S1 BATCH NO: 013117S1

DATE ANALYZED: 02/01/2017

METHOD:PERCENT MOISTURESAMPLE TYPE: SOILREFERENCE:ASTM D 2216-05UNITS: %

PRECISION (DUPLICATE)

ANALYTE	REPORTING	PRIMARY	DUPLICATE	RPD
	LIMIT	RESULT	RESULT	(%)
% MOISTURE	0.100	20.7	21.0	1.4

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT APPLICABLE RPD - RELATIVE PERCENT DIFFERENCE

10
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CHAIN OF CUSTODY RECORD

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Project Name	and the terror designation of the same and t	Anderson Control of the control of t	Project No.	***************************************	APPLICATION OF THE PROPERTY OF	in the fact yet announcement of the contract of the second project, and the said is a second of the second project of the second		705765-056-504	۵,
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Reporting: Flectronic formation	Hard Copy Format	format PD)	Laboratory: K-Prime Laboratories, Inc.	oratones,	Inc.	VI 02216 8015M 8015M 8015M 8260			
Please report results to the following people: (1) Data Arthue Tatisfacturonsult com (2) Invivo violable consult com (3) Invivo Dauphorty idauphorty (action)	following people: From Solutional from		³ 621 Wrstwind Boilevard Santa Rosa, CA, USA 95403 (707) 527-7574	wind Boule CA, USA S74	95403	Percent Mois TPH d / DRO TPH-g / GRO VOCs & MTBI Analyte / Grou	HOLD Extract and HC	TED TURNARO	
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CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574 FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROI:

TRANSMITTAL

DATE:

2/2/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

MR. KEL MITCHELL

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100

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650-552-9012

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jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT:

RAKM Ch 1807 LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID

TYPE

DATE

TIME

KPI LAB #

TW-6.5-7.0

SOIL

1/30/2017

12:45

151127

The above listed sample group was received on on the chain of custody document.

1/30/2017 and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO

SAMPLE TYPE: SOIL

REFERENCE: EPA 8015B

UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	DRO
		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TW-6.5-7.0	151127	1/30/2017	012317S1	1/31/2017	2/1/2017	12.2	115	

NOTES:

DRO Diesel Range Organics (C12-C23) ND Not Detected at or above the stated MRL NA Not Applicable or Available MRL Method Reporting Limit ΑD Typical Pattern for Diesel ΑM Hydrocarbon response is in the C12-C22 range AC Heavier hydrocarbons contributing to diesel range quantitation ΑJ Heavier hydrocarbon than diesel Lighter hydrocarbon than diesel ΑK ΑE Unknown hydrocarbon with a single peak ΑN Unknown hydrocarbon with several peaks

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: HRO SAMPLE TYPE: SOIL

REFERENCE: EPA 8015B UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	HRO
		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TW-6.5-7.0	151127	1/30/2017	012317S1	1/31/2017	2/1/2017	12.2	17.2	

NOTES:

HRO Heavy Range Organics (C24-C34)

ND Not Detected at or above the stated MRL

NA Not Applicable or Available

MRL Method Reporting Limit

AE Unknown hydrocarbon with a single peak

AN Unknown hydrocarbon with several peaks

APPROVED BY: ___

DATE: 2/2/201

K PRIME, INC. LABORATORY QUALITY CONTROL REPORT

BATCH ID: 012317S1 **DATE EXTRACTED:** 01/23/2017 **DATE ANALYZED:** 01/23/2017

SAMPLE TYPE: SOIL

REFERENCE: EPA 8015B

METHOD: DRO

UNITS: mg/Kg

METHOD BLANK ID: B012317S1

COMPOUND NAME REPORTING SAMPLE LIMIT CONC DRO 10.0 ND

SAMPLE ID: L012317S1

DUPLICATE ID: D012317S1

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	500	ND	467	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	10.0	467	464	0.6	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE OF

CONSULTING ENGINEERS A	ND SCIENTISTS		1870 Ogden D	Ogden Drive, Burlingame CA 94010		www.ekiconsult.com			.con	m PHONE: 650-292-9		2-91	FAX: 650-552-9012		
<u>Project Name:</u> Horton St UST			Project No.: B20006.00			ANALYSES RE				ALYS	ES REQUESTED			GeoTracker Global ID #: T10000007323	
Location: Emeryville, CA Reporting: Electronic Format: EDF EPA Data Report Level: II	Hard Copy	Format: PDF	K-Prime Laboratories, Inc.		ASTM 02216 P EPA 8015M T EPA 8015M T EPA 8260 V Method No. A		0, 1			Extr			Revision: A (A, B, C, D, etc.) Date: 1/2-1/2-01 7 By:		
Please report results to the for (1) Data Archive: labs@ekiconsult.co (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@o(4) Graeme Brunst: gbrunst@ekicon (5) Kel Mitchell: kmitchell@ekiconsult.	om ekiconsult.com isult.com		Santa Ros (707) 527	sa, CA, USA 7-7574	95403	Analyte / Group	VOCs & MTBE	TPH-g / GRO	H-d / DRO	Parrant Moistire		Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Remarks
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Typ)e				de de				or transpopulation	-
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Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

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CONSULTING ENGINEERS A	ND SCIENTISTS		1870 Ogden I	den Drive, Burlingame CA 94010		www.ekiconsult.com PHONE: 650-292			2-91	9ı FAX: 650-552-9012					
Project Name: Horton St UST			Project No.: B20006.00	'		ANALYSES REQUESTED						GeoTracker	Global ID #:		
Location: Emeryville, CA Reporting: Electronic Format: EDF EPA Data Report Level: II		Format: PDF	Sampled By: G. Brunst & K. Mitchell Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403		, · · · · · ·					ASTM D2216 Perc		Extract	-	EXPECTED	Revision:(A, B, C, D, etc.) Date: By:
Please report results to the fo (1) Data Archive: labs@ekiconsult.com (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@e (4) Graeme Brunst: gbrunst@ekicon (5) Kel Mitchell: kmitchell@ekiconsu	om ekiconsult.com sult.com		1	anta Rosa, CA, USA 95403 '07) 527-7574		(707) 527-7574 & MTBE		Percent Moisture TPH-d / DRO TPH-g / GRO VOCs & MTBE Analyte / Group		ent Moisture	HOLD Extract and HOLD		40TD	TURNAROUND TIME	Remarks
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type	e									
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TW-6.5-7.0	151127	305m17	1245	Soil	5 x 5-gram EnCore 4-oz glass jar		X		X	×					
15N-35-40	151128	20×17	1400	Soil	5 x 5-gram EnCore	Ś	sh	X							
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TSW-6.5-7.0	15(12)	30617	1445	Soil	4-oz glass jar				X.	х				V	V-004/104
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	W-0.00														

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574

FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROI:

TRANSMITTAL

DATE:

2/1/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST MR. KEL MITCHELL

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100

Fax:

650-552-9012

Email:

labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

RAK IM Ch 12017

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID

TYPE

DATE

TIME

KPI LAB#

TW-6.5-7.0 SOIL 1/30/2017 12:45 151127

The above listed sample group was received on on the chain of custody document.

1/30/2017 and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS-DRY WEIGHT

REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL

UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	ID	ANALYZED		CONC	PATTERN
TW-6.5-7.0	151127	01/30/2017	12:45	012317S1	01/31/2017	1.00	ND	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY:

DATE: 02

SAMPLE ID: TW-6.5-7.0 LAB NO: 151127 DATE SAMPLED: 01/30/2017 TIME SAMPLED: 12:45 BATCH NO: 011817S1 DATE ANALYZED: 01/31/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC		
DICHLORODIFLUOROMETHANE	75-71-8	1.56	ND		
CHLOROMETHANE	74-87-3	1.56	ND		
VINYL CHLORIDE	75-01-4	1.56	ND		
BROMOMETHANE	74-83-9	1.56	ND		
CHLOROETHANE	75-00-3	1.56	ND		
TRICHLOROFLUOROMETHANE	75-69-4	1.56	ND		
1,1-DICHLOROETHENE	75-35-4	1.56	ND		
TRICHLOROTRIFLUOROETHANE	76-13-1	1.56	ND		
METHYLENE CHLORIDE	75-09-2	7.79	ND		
TRANS-1,2-DICHLOROETHENE	156-60-5	1.56	ND		
1,1-DICHLOROETHANE	75-34-3	1.56	ND		
CIS-1,2-DICHLOROETHENE	156-59-2	1.56	ND		
2,2-DICHLOROPROPANE	594-20-7	1.56	ND		
BROMOCHLOROMETHANE	74-97-5	1.56	ND		
CHLOROFORM	67-66-3	1.56	ND		
1,1,1-TRICHLOROETHANE	71-55-6	1.56	ND		
CARBON TETRACHLORIDE	56-23-5	1.56	ND		
1,1-DICHLOROPROPENE	563-58-6	1.56	ND		
BENZENE	71-43-2	1.56	ND		
1,2-DICHLOROETHANE	107-06-2	1.56	ND		
TRICHLOROETHENE	79-01-6	1.56	ND		
1,2-DICHLOROPROPANE	78-87-5	1.56	ND		
DIBROMOMETHANE	74-95-3	1.56	ND		
BROMODICHLOROMETHANE	75-27-4	1.56	ND		
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.56	ND		
TOLUENE	108-88-3	1.56	ND		
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.56	ND		
1,1,2-TRICHLOROETHANE	79-00-5	1.56	ND		
TETRACHLOROETHENE	127-18-4	1.56	ND		
1,3-DICHLOROPROPANE	142-28-9	1.56	ND		
DIBROMOCHLOROMETHANE	124-48-1	1.56	ND		
1,2-DIBROMOETHANE	106-93-4	1.56	ND		
CHLOROBENZENE	108-90-7	1.56	ND		
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.56	ND		
ETHYLBENZENE	100-41-4	1.56	ND		
XYLENE (M+P)	1330-20-7	1.56	ND		
XYLENE (O)	1330-20-7	1.56	ND		
STYRENE	100-42-5	1.56	ND		
BROMOFORM	7 5-25-2	1.56	ND		
ISOPROPYLBENZENE	98-82-8	1.56	ND		
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.56	ND		
BROMOBENZENE	108-86-1	1.56	ND		
1,2,3-TRICHLOROPROPANE	96-18-4	1.56	ND		
N-PROPYLBENZENE	103-65-1	1.56	ND		
2-CHLOROTOLUENE	95-49-8	1.56	ND		

SAMPLE ID: TW-6.5-7.0 LAB NO: 151127 DATE SAMPLED: 01/30/2017 TIME SAMPLED: 12:45 BATCH NO: 011817S1

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7 DATE ANALYZED: 01/31/2017

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.56	ND
4-CHLOROTOLUENE	106-43-4	1.56	ND
TERT-BUTYLBENZENE	98-06-6	1.56	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.56	ND
SEC-BUTYLBENZENE	135-98-8	1.56	ND
1,3-DICHLOROBENZENE	541-73-1	1.56	ND
4-ISOPROPYLTOLUENE	99-87-6	1.56	ND
1,4-DICHLOROBENZENE	106-46-7	1.56	ND
N-BUTYLBENZENE	104-51-8	1.56	ND
1,2-DICHLOROBENZENE	95-50-1	1.56	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.56	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.12	ND
HEXACHLOROBUTADIENE	87-68-3	3.12	ND
NAPHTHALENE	91-20-3	3.12	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.12	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.56	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	114
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	98
PERCENT MOISTURE	17.8

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

02/01/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO

SAMPLE TYPE: SOIL

REFERENCE: EPA 8015B

UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	DRO
		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TW-6.5-7.0	151127	01/30/2017	012317S1	01/31/2017	02/01/2017	12.2	132	

NOTES:

DRO Diesel Range Organics (C12-C34) ND Not Detected at or above the stated MRL NΑ Not Applicable or Available MRL Method Reporting Limit ΑD Typical Pattern for Diesel AC Heavier hydrocarbons contributing to diesel range quantitation ΑJ Heavier hydrocarbon than diesel ΑK Lighter hydrocarbon than diesel ΑE Unknown hydrocarbon with a single peak ΑN Unknown hydrocarbon with several peaks

APPROVED BY:

DATE: OZ/01/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD:PERCENT MOISTURESAMPLE TYPE: SOILREFERENCE:ASTM D 2216-05UNITS: %

SAMPLE ID LAB NO. DATE TIME BATCH DATE MRL SAMPLE SAMPLED SAMPLED ID ANALYZED CONC TW-6.5-7.0 151127 01/30/2017 12:45 013117S1 02/01/2017 0.100 17.8

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT AVAILABLE OR APPLICABLE MRL - METHOD REPORTING LIMIT

APPROVED BY:

DATE: 07/01/17

METHOD BLANK ID: B012317S1 BATCH NO: 012317S1

SAMPLE TYPE: SOIL

UNITS: mg/Kg

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 01/23/2017
DATE ANALYZED: 01/23/2017

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT AVAILABLE OR APPLICABLE

SAMPLE ID: L012317S1 DUPLICATE ID: D012317S1 BATCH NO: 012317S1 SAMPLE TYPE: SOIL

UNITS: mg/Kg

DATE EXTRACTED: 01/23/2017 **DATE ANALYZED:** 01/23/2017

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	5.00	ND	4.87	97	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	1.00	4.87	4.74	2.7	±20

NOTES:

 ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

METHOD BLANK ID: B011817S1 BATCH NO: 011817S1 DATE ANALYZED: 01/18/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL UNITS: µg/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.50	ND
CHLOROMETHANE	74-87-3	1.50	ND
VINYL CHLORIDE	75-01-4	1.50	ND
BROMOMETHANE	74-83-9	1.50	ND
CHLOROETHANE	75-00-3	1.50	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.50	ND
1,1-DICHLOROETHENE	75-35-4	1.50	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.50	ND
METHYLENE CHLORIDE	75-09-2	7.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.50	ND
1,1-DICHLOROETHANE	75-34-3	1.50	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.50	ND
2,2-DICHLOROPROPANE	594-20-7	1.50	ND
BROMOCHLOROMETHANE	74-97-5	1.50	ND
CHLOROFORM	67-66-3	1.50	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.50	ND
CARBON TETRACHLORIDE	56-23-5	1.50	ND
1,1-DICHLOROPROPENE	563-58-6	1.50	ND
BENZENE	71-43-2	1.50	ND
1,2-DICHLOROETHANE	107-06-2	1.50	ND
TRICHLOROETHENE	79-01-6	1.50	ND
1,2-DICHLOROPROPANE	78-87-5	1.50	ND
DIBROMOMETHANE	74-95-3	1.50	ND
BROMODICHLOROMETHANE	75-27-4	1.50	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.50	ND
TOLUENE	108-88-3	1.50	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.50	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.50	ND
TETRACHLOROETHENE	127-18-4	1.50	ND
1,3-DICHLOROPROPANE	142-28-9	1.50	ND
DIBROMOCHLOROMETHANE	124-48-1	1.50	ND
1,2-DIBROMOETHANE	106-93-4	1.50	ND
CHLOROBENZENE	108-90-7	1.50	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.50	ND
ETHYLBENZENE	100-41-4	1.50	ND
XYLENE (M+P)	1330-20-7	1.50	ND
XYLENE (O)	1330-20-7	1.50	ND
STYRENE	100-42-5	1.50	ND
BROMOFORM	75-25-2	1.50	ND
ISOPROPYLBENZENE	98-82-8	1.50	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.50	ND
BROMOBENZENE	108-86-1	1.50	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.50	ND
N-PROPYLBENZENE	103-65-1	1.50	ND
2-CHLOROTOLUENE	95-49-8	1.50	ND

METHOD BLANK ID: B011817S1 BATCH NO: 011817S1 DATE ANALYZED: 01/18/2017

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL REFERENCE: EPA 5035/8260 UNITS: $\mu g/Kg$

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.50	ND
4-CHLOROTOLUENE	106-43-4	1.50	ND
TERT-BUTYLBENZENE	98-06-6	1.50	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.50	ND
SEC-BUTYLBENZENE	135-98-8	1.50	ND
1,3-DICHLOROBENZENE	541-73-1	1.50	ND
4-ISOPROPYLTOLUENE	99-87-6	1.50	ND
1,4-DICHLOROBENZENE	106-46-7	1.50	ND
N-BUTYLBENZENE	104-51-8	1.50	ND
1,2-DICHLOROBENZENE	95-50-1	1.50	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.50	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.00	ND
HEXACHLOROBUTADIENE	87-68-3	3.00	ND
NAPHTHALENE	91-20-3	3.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.50	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	103
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	89

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B011817S1 SPIKE ID: L011817S1 DUPLICATE ID: D011817S1

BATCH NO: 011817S1 **DATE ANALYZED:** 01/18/2017

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL REFERENCE: EPA 5035/8260 UNITS: μg/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	30.0	ND	24.2	81	60-140
BENZENE	30.0	ND	30.2	101	60-140
TRICHLOROETHENE	30.0	ND	31.0	103	60-140
TOLUENE	30.0	ND	30.7	102	60-140
CHLOROBENZENE	30.0	ND	30.4	101	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	REPORTING SPIKE		RPD	LIMITS	
	LIMIT	RESULT	RESULT	(%)	(%)	
1,1 DICHLOROETHENE	1.50	24.2	26.2	8.0	±20	
BENZENE	1.50	30.2	30.6	1.2	±20	
TRICHLOROETHENE	1.50	31.0	31.3	1.1	±20	
TOLUENE	1.50	30.7	32.5	5.7	±20	
CHLOROBENZENE	1.50	30.4	31.4	3.0	±20	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC. **BATCH ID:** 012317S1 LABORATORY QUALITY CONTROL REPORT **DATE EXTRACTED:** 01/23/2017

DATE ANALYZED: 01/23/2017

METHOD: DRO SAMPLE TYPE: SOIL **REFERENCE: EPA 8015B**

UNITS: mg/Kg

METHOD BLANK ID: B012317S1

COMPOUND NAME REPORTING SAMPLE CONC LIMIT DRO ND 10.0

SAMPLE ID: L012317S1

DUPLICATE ID: D012317S1

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	500	ND	467	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	RPD	LIMITS	
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	10.0	467	464	0.6	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

SAMPLE ID: 151129 DUPLICATE ID: 151129DUP METHOD BLANK ID: B013117S1 BATCH NO: 013117S1

DATE ANALYZED: 02/01/2017

METHOD: REFERENCE: PERCENT MOISTURE ASTM D 2216-05 SAMPLE TYPE: SOIL

UNITS: %

PRECISION (DUPLICATE)

ANALYTE	REPORTING	PRIMARY	DUPLICATE	RPD
	LIMIT	RESULT	RESULT	(%)
% MOISTURE	0.100	20.7	21.0	1.4

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT APPLICABLE RPD - RELATIVE PERCENT DIFFERENCE

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE OF

CONSULTING ENGINEERS AND SCIENTISTS			1870 Ogden Drive, Burlingame CA 94010		www.ekiconsult.com				rm PHONE: 650-292-91			292-9	***************************************	FAX: 650-552-9012													
<u>Project Name:</u> Horton St UST			Project No.: 820006.00	····		-	*	•		NALY	SES RI	QUES	TED	***************************************		GeoTracke	r Global ID #:										
Location: Emeryville, CA Reporting: Electronic Format: EDF EPA Data Report Level: II Please report results to the for (1) Data Archive: labs@ekiconsult.com (3) Jessica Daugherty: jdaugherty@- (4) Graeme Brunst: gbrunst@ekicons (5) Kel Mitchell: kmitchell@ekiconsult.	ult.com ty@ekiconsult.com kiconsult.com		G. Brunst & K. Mit Laboratory: K-Prime Labora 3621 Westwind		K-Prime Laboratories, Inc.		& K. Mitchell Laboratories, Inc. estwind Boulevard sa, CA, USA 95403		aboratories, Inc.		poratories, Inc.		aboratories, Inc.		t & K. Mitchell		EPA 8260 VOCs & MTBE	, 3-Hq1	EPA 8015M TPH-d / DRO	ASTM D2216 Percent Moisture					HOLD Extract and HOLD	EXPECTED TURNAROUND TIME	Revision: A (A, B, C, D, etc.) Date: 1/31/20 7 By: Remarks
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TW-6.5-7.0	151127	30/2m17	1245	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X	X	>						1 day	(E)										
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BW-6.5-7.0	151129	306-17	1445	Soil	5 x 5-gram EnCore 4-oz glass jar		x		X.	×						STP											
				Soil	5 x 5-gram EnCore 4-oz glass jar																						
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Erler & Kalinowski, Inc.

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CONSOLTING ENGINEERS A	IND SCIENTISTS		1870 Ogden	Drive, Burlin	game CA 94010	www.ekiconsult.d			nsul	t.cor	.com PHONE: 650-292-9			FAX: 650-552-9012	
Project Name: Horton St UST			Project No.: B20006.00) T7						IALYS	SES REQUESTED			GeoTracker T1000000	r Global ID #: 7323
Emeryville, CA			K-Prime Laboratories, Inc.			,		TPH-g	1	ASTM D2216 Perce		Extract		EXPECTED TURNAROUND	Revision: (A, B, C, D, etc.) Date: By:
	om ekiconsult.com isult.com		1	7) 527-7574		te	s & MTBE	g/GRO	TPH-d / DRO	nt Moisture		Extract and HOLD		RNAROUND TIME	Remarks
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Typ	e									
TW-35-4.0	151126	305cm (7	1230	Soil	5 x 5-gram EnCore 4-oz glass jar		X)		Z X					210	
TW-6.5-7.0	151127	305m17	1245	Soil	5 x 5-gram EnCore 4-oz glass jar	>	()	X >							
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	····														

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403 Phone: 707 527 7574

FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/2/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST MR. KEL MITCHELL

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100

Fax: Email: 650-552-9012 labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT:

LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID TYPE DATE TIME **KPI LAB #** TW-4-14 WATER 1/30/2017 13:55 151130

The above listed sample group was received on

1/30/2017 and tested as requested

on the chain of custody document.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS SAMPLE TYPE: WATER

REFERENCE: EPA 8015B UNITS: mg/L

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	NO	ANALYZED		CONC	PATTERN
TW-4-14	151130	01/30/2017	13:55	011817W1	01/31/2017	0.050	ND	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY:

DATE: 02/02/17

SAMPLE ID: TW-4-14

LAB NO: 151130

DATE SAMPLED: 01/30/2017

TIME SAMPLED: 13:55

BATCH NO: 011717W1

DATE ANALYZED: 01/31/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER REFERENCE: EPA 5030/8260 UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	1.19
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	5.40
1,1-DICHLOROETHANE	75-34-3	0.500	0.930
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	7.63
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	2.38
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: TW-4-14 **LAB NO:** 151130 **DATE SAMPLED:** 01/30/2017 TIME SAMPLED: 13:55 **BATCH NO:** 011717W1 **DATE ANALYZED:** 01/31/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER **REFERENCE: EPA 5030/8260** UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	105
TOLUENE-D8	103
4-BROMOFLUOROBENZENE	95

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO **SAMPLE TYPE: WATER REFERENCE: EPA 8015B UNITS:** mg/L

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	DRO
		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TW-4-14	151130	01/30/2017	011817W1	01/31/2017	02/01/2017	0.0515	0.369	AC

NOTES:

DRO Diesel Range Organics (C12-C23) ND Not Detected at or above the stated MRL

NA Not Applicable or Available MRL Method Reporting Limit Typical Pattern for Diesel ΑD

Hydrocarbon response is in the C12-C22 range AM

AC Heavier hydrocarbons contributing to diesel range quantitation

ΑJ Heavier hydrocarbon than diesel ΑK Lighter hydrocarbon than diesel

ΑE Unknown hydrocarbon with a single peak Unknown hydrocarbon with several peaks ΑN

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: HRO

SAMPLE TYPE: WATER

REFERENCE: EPA 8015B

UNITS: mg/L

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	HRO
<u></u>		SAMPLED	ID	DATE	ANALYZED			PATTERN
TW-4-14	151130	01/30/2017	011817W1	01/31/2017	02/01/2017	0.0515	0.185	

NOTES:

HRO Heavy Range Organics (C24-C34)

ND Not Detected at or above the stated MRL NA Not Applicable or Available

MRL Method Reporting Limit

ΑE Unknown hydrocarbon with a single peak ΑN Unknown hydrocarbon with several peaks

APPROVED BY: ON DATE: O ZO ZII

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B011817W1
BATCH NO: 011817W1
SAMPLE TYPE: WATER

UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 01/18/2017
DATE ANALYZED: 01/18/2017

COMPOUND NAME	REPORTING	SAMPLE
	LIMIT	CONC
TPH-G	0.050	ND

SAMPLE ID: L011817W1
DUPLICATE ID: D011817W1
BATCH NO: 011817W1
SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 01/18/2017 DATE ANALYZED: 01/18/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.521	104	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.521	0.504	3.3	±20

NOTES:

 $\operatorname{\mathsf{ND}}$ - $\operatorname{\mathsf{NOT}}$ DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

METHOD BLANK ID: B011717W1

BATCH NO: 011717W1

DATE ANALYZED: 01/17/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND ND
TOLUENE	108-88-3	0.500	ND ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE 1.3-DICHLOROPROPANE	127-18-4	0.500	ND ND
	142-28-9	0.500	ND ND
DIBROMOCHLOROMETHANE 1,2-DIBROMOETHANE	124-48-1	0.500	ND ND
CHLOROBENZENE	106-93-4 108-90-7	0.500 0.500	ND ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND ND
ETHYLBENZENE	100-41-4	0.500	ND ND
XYLENE (M+P)	1330-20-7	0.500	ND ND
XYLENE (O)	1330-20-7	0.500	ND ND
STYRENE	100-42-5	0.500	ND ND
BROMOFORM	75-25-2	0.500	ND ND
ISOPROPYLBENZENE	98-82-8	0.500	ND ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

METHOD BLANK ID: B011717W1
BATCH NO: 011717W1
DATE ANALYZED: 01/17/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	115
TOLUENE-D8	108
4-BROMOFLUOROBENZENE	94

NOTES:

 $\ensuremath{\mathsf{ND}}$ - $\ensuremath{\mathsf{NOT}}$ DETECTED AT OR ABOVE THE STATED REPORTING LIMIT $\ensuremath{\mathsf{NA}}$ -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B011717W1 **SPIKE ID:** L011717W1 **DUPLICATE ID:** D011717W1

BATCH NO: 011717W1

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER **REFERENCE: EPA 5030/8260**

UNITS: μg/L

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	10.0	ND	7.77	78	60-140
BENZENE	10.0	ND	9.00	90	60-140
TRICHLOROETHENE	10.0	ND	8.83	88	60-140
TOLUENE	10.0	ND	9.45	95	60-140
CHLOROBENZENE	10.0	ND	9.15	92	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	0.500	7.77	8.24	5.9	±20
BENZENE	0.500	9.00	9.13	1.4	±20
TRICHLOROETHENE	0.500	8.83	8.95	1.3	±20
TOLUENE	0.500	9.45	9.73	2.9	±20
CHLOROBENZENE	0.500	9.15	8.89	2.9	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC. LABORATORY QUALITY CONTROL REPORT

BATCH ID: 011817W1

DATE EXTRACTED: 01/18/2017

DATE ANALYZED: 01/18/2017

METHOD: DRO

REFERENCE: EPA 8015B

SAMPLE TYPE:

WATER

UNITS:

mg/L

METHOD BLANK ID: B011817W1

COMPOUND NAME

REPORTING

SAMPLE CONC

DRO

LIMIT 0.0500

ND

SAMPLE ID: L011817W1

DUPLICATE ID: D011817W1

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	2.50	ND	2.12	85	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	0.0500	2.12	2.05	3.6	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

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PAGE	3	OF	1

CONSULTING ENGINEERS AI	ND SCIENTISTS		1870 Ogden [Orive, Burlin	game CA 94010	ww	w.eki	consu	ult.com PHONE: 650-2	292-9099		FAX: 650-552-9012
Project Name: Horton St UST			Project No.: B20006.00	Т7	7,00,000				ANALYSES REQUESTED			acker Global ID #: 00007323
Location: Emeryville, CA Reporting: Electronic Format: EDF EPA Data Report Level: II Please report results to the fo (1) Data Archive: labs@ekiconsult.com (3) Jessica Daugherty: jdaugherty@e (4) Graeme Brunst: gbrunst@ekiconsu (5) Kel Mitchell: kmitchell@ekiconsu	llowing people: om kiconsult.com sult.com	Format: PDF	Laboratory: K-Prime L 3621 We	& K. Mitchell aboratories stwind Boul sa, CA, USA -7574	evard		EPA 8015m TPH-g EPA 8260 VOCs & MTBE			HOLD Extract and HOLD	EXPECTED TURNAROUND TIME	Revision:(A, B, C, D, etc.) Date: By: Remarks
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Ty	pe						
TW-4-14	151130	1-30-17	1355	Water	6 VOAs (HCI)		XX				STD	
* *					1-L Amber		_	X			OIV	
				Water	6 VOAs (HCI) 1-L Amber							
		,,,,		Water	6 VOAs (HCl)							
					1-L Amber							
	1.5			Water	6 VOAs (HCI)							
				14/	6 VOAs (HCI)							
				Water	1-L Amber							
				Water	6 VOAs (HCI)							
					1-L Amber							
Special Instructions:												
Relinquished by: (Signature/Affili	ation)	EKI		Date & Time	-17 160	70			Received by: (Signature	/Affiliation or	Carrier/Ai	1811 No.)
Relinquished by: (Signature/Affili	attion)	$T(\cdot)$		Date & Time	/		_,->		Received by: (Signature	/Affiliation)		The Tank
Relinquished by: (Signature/Affili	ation)			Date & Time	,	7:6	-12		Received by: (Signature	/Affiliation)		
				<u> </u>	m. — proposition of the control of t							

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.

Santa Rosa CA 95403 Phone: 707 527 7574

FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/2/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

MR. KEL MITCHELL

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100

Fax:

650-552-9012

Email:

labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com RAKIMUZ/2/2017

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID

TYPE

DATE

TIME

KPI LAB#

TB20170130 WATER 1/30/2017 15:00 151131

The above listed sample group was received on on the chain of custody document.

1/30/2017 and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS **SAMPLE TYPE: WATER REFERENCE: EPA 8015B** UNITS: mg/L

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	NO	ANALYZED		CONC	PATTERN
TB20170130	151131	01/30/2017	15:00	020217W1	02/02/2017	0.050	ND	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

SAMPLE ID: TB20170130 LAB NO: 151131 DATE SAMPLED: 01/30/2017 TIME SAMPLED: 15:00 BATCH NO: 011717W1 DATE ANALYZED: 01/31/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND ND
TETRACHLOROETHENE	127-18-4	0.500	ND ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND ND
ETHYLBENZENE	100-41-4	0.500	ND NB
XYLENE (M+P)	1330-20-7	0.500	ND NB
XYLENE (O)	1330-20-7	0.500	ND ND
STYRENE	100-42-5	0.500	ND ND
BROMOFORM	75-25-2	0.500	ND ND
ISOPROPYLBENZENE	98-82-8	0.500	ND ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND ND
BROMOBENZENE	108-86-1	0.500	ND ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND ND
N-PROPYLBENZENE	103-65-1	0.500	ND ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: TB20170130 LAB NO: 151131 DATE SAMPLED: 01/30/2017 TIME SAMPLED: 15:00 BATCH NO: 011717W1 DATE ANALYZED: 01/31/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYL T OLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BU T YLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	8 7 -68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SUF	RROGATE RECOVERY	<u></u> %
DIBI	ROMOFLUOROMETHANE	112
TOL	UENE-D8	106
4-BF	ROMOFLUOROBENZENE	95

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: The DATE: 2/2/2017

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B020217W1
BATCH NO: 020217W1
SAMPLE TYPE: WATER
UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 02/02/2017
DATE ANALYZED: 02/02/2017

COMPOUND NAME	REPORTING	SAMPLE
	LIMIT	CONC
TPH-G	0.050	ND

SAMPLE ID: L020217W1
DUPLICATE ID: D020217W1
BATCH NO: 020217W1
SAMPLE TYPE: WATER
UNITS: mg/L

DATE EXTRACTED: 02/02/2017 **DATE ANALYZED:** 02/02/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.463	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.463	0.439	5.5	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

METHOD BLANK ID: B011717W1
BATCH NO: 011717W1
DATE ANALYZED: 01/17/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

METHOD BLANK ID: B011717W1
BATCH NO: 011717W1
DATE ANALYZED: 01/17/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	115
TOLUENE-D8	108
4-BROMOFI UOROBENZENE	94

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B011717W1 **SPIKE ID:** L011717W1 **DUPLICATE ID:** D011717W1

BATCH NO: 011717W1

SAMPLE TYPE: WATER UNITS: μg/L

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	10.0	ND	7.77	78	60-140
BENZENE	10.0	ND	9.00	90	60-140
TRICHLOROETHENE	10.0	ND	8.83	88	60-140
TOLUENE	10.0	ND	9.45	95	60-140
CHLOROBENZENE	10.0	ND	9.15	92	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	0.500	7.77	8.24	5.9	±20
BENZENE	0.500	9.00	9.13	1.4	±20
TRICHLOROETHENE	0.500	8.83	8.95	1.3	±20
TOLUENE	0.500	9.45	9.73	2.9	±20
CHLOROBENZENE	0.500	9.15	8.89	2.9	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE OF /

CONSULTING ENGINEERS A	ND SCIENTISTS		1870 Ogden Di	rive, Burling	game CA 94010	ww	w.e	kico	nsult.c	.com PHONE: 650-292-9099 FAX: 650-552-9012
Project Name: Horton St UST			Project No.: 820006.00 1	r7				*********	A	ANALYSES REQUESTED GeoTracker Global ID #: T10000007323
Location: Emeryville, CA Reporting: Electronic Format: EDF EPA Data Report Level: II Please report results to the formation of the following of the followin	ollowing people: com lekiconsult.com nsult.com	Format: PDF	Sampled By: G. Brunst & Laboratory: K-Prime La 3621 Wes	K. Mitchell aboratories twind Boul a, CA, USA	evard	Method No. Analyte / Group	EPA 8260 VOCS & MTBE	EPA 8015m TPH-g	EPA 8015m TPH-d & TPH-mo	EXTRACT AND TIME Revision: A (A, B, C, D, etc.) Date: 2/1/17 By: Remarks
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Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

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•		FAX: 650-552-9012								
	GeoTracker Global ID #: T10000007323									
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CONSOLTING LINGINGERS /	AND SCIENTISTS		1870 Ogden t	orive, Buriir	ngame CA 94010	ww	w.el	cicor	rsult.co	om PHONE: 650-292-9099 FAX: 650-552-9012
<u>Project Name:</u> Horton St UST			Project No.: B20006.00	T7					ΑN	NALYSES REQUESTED GeoTracker Global ID #: T10000007323
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(3) Jessica Daugherty: jdaugherty@(4) Graeme Brunst: gbrunst@ekico						q			TBH-mo	
(5) Kel Mitchell: kmitchell@ekicons										를 기계
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Relinquished by: (Signature/Affi	iliation)			Date & Time						Received by: (Signature/Affiliation)

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574

FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROI:

TRANSMITTAL

DATE:

2/3/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

MR. KEL MITCHELL

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100

Fax:

650-552-9012

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labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D. Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
TSW-5-15	WATER	1/31/2017	09:20	151217
TSW-5-15-DUP	WATER	1/31/2017	09:20	151218

The above listed sample group was received on on the chain of custody document.

1/31/2017 and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS

SAMPLE TYPE: WATER

REFERENCE: EPA 8015B

UNITS: mg/L

	SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
			SAMPLED	SAMPLED	NO	ANALYZED		CONC	PATTERN
ſ	TSW-5-15	151217	01/31/2017	9:20	011817W1	02/01/2017	0.050	0.050	CO
ı	TSW-5-15-DUP	151218	01/31/2017	9:20	011817W1	02/01/2017	0.050	0.067	CO

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY: _

SAMPLE ID: TSW-5-15 LAB NO: 151217 DATE SAMPLED: 01/31/2017 TIME SAMPLED: 09:20 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	1.59
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: TSW-5-15 **LAB NO: 151217 DATE SAMPLED:** 01/31/2017 TIME SAMPLED: 09:20 **BATCH NO:** 020117W1 **DATE ANALYZED:** 02/01/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

SAMPLE TYPE: WATER METHOD: VOLATILE ORGANIC COMPOUNDS UNITS: ug/L REFERENCE: EPA 5030/8260

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

%
105
106
96

NOTES:

 $\operatorname{\mathsf{ND}}$ - $\operatorname{\mathsf{NOT}}$ DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: 02/03/17

SAMPLE ID: TSW-5-15-DUP LAB NO: 151218 DATE SAMPLED: 01/31/2017 TIME SAMPLED: 09:20 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	0.510
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	1.81
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: TSW-5-15-DUP

LAB NO: 151218 **DATE SAMPLED:** 01/31/2017

TIME SAMPLED: 09:20

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

BATCH NO: 020117W1 **DATE ANALYZED:** 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER **UNITS:** ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-8 7 -6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	102
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	87

NOTES:

 \mbox{ND} - \mbox{NOT} DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

02/03/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO **SAMPLE TYPE: WATER REFERENCE: EPA 8015B** UNITS: mg/L

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	DRO
		SAMPLED	ID	DATE	ANALYZED			PATTERN
TSW-5-15	151217	01/31/2017	011817W1	02/01/2017	02/01/2017	0.0510	0.150	
TSW-5-15-DUP	151218	01/31/2017	011817W1	02/01/2017	02/01/2017	0.0549	0.144	

NOTES:

DRO Diesel Range Organics (C12-C23) ND Not Detected at or above the stated MRL

NΑ Not Applicable or Available Method Reporting Limit MRL ΑD Typical Pattern for Diesel

Hydrocarbon response is in the C12-C22 range ΑM

AC Heavier hydrocarbons contributing to diesel range quantitation

ΑJ Heavier hydrocarbon than diesel AK Lighter hydrocarbon than diesel

ΑE Unknown hydrocarbon with a single peak ΑN Unknown hydrocarbon with several peaks

APPROVED BY: 02/03/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: HRO

SAMPLE TYPE: WATER

REFERENCE: EPA 8015B

UNITS:

mg/L

	SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	HRO
			SAMPLED	ID	DATE	ANALYZED			PATTERN
	TSW-5-15	151217	01/31/2017	011817W1	02/01/2017	02/01/2017	0.0510	0.116	
TS	W-5-15-DUP	151218	01/31/2017	011817W1	02/01/2017	02/01/2017	0.0549	0.108	

NOTES:

HRO

Heavy Range Organics (C24-C34)

ND

Not Detected at or above the stated MRL

NA

Not Applicable or Available

MRL

Method Reporting Limit

ΑE

Unknown hydrocarbon with a single peak

ΑN

Unknown hydrocarbon with several peaks

APPROVED BY:

K PRIME, INC. LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B011817W1 BATCH NO: 011817W1 SAMPLE TYPE: WATER UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 01/18/2017 DATE ANALYZED: 01/18/2017

COMPOUND NAME	REPORTING	SAMPLE
	LIMIT	CONC
TPH-G	0.050	ND

SAMPLE ID: L011817W1
DUPLICATE ID: D011817W1
BATCH NO: 011817W1
SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 01/18/2017 **DATE ANALYZED:** 01/18/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.521	104	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.521	0.504	3.3	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

K PRIME, INC. LABORATORY BATCH QC REPORT METHOD BLANK ID: B020117W1

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	99

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B020117W1 SPIKE ID: L020117W1 DUPLICATE ID: D020117W1

BATCH NO: 020117W1

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: WATER **UNITS**: μg/L

REFERENCE: EPA 5030/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	10.0	ND	8.40	84	60-140
BENZENE	10.0	ND	8.81	88	60-140
TRICHLOROETHENE	10.0	ND	9.06	91	60-140
TOLUENE	10.0	ND	10.2	102	60-140
CHLOROBENZENE	10.0	ND	9.94	99	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	0.500	8.40	7.64	9.5	±20
BENZENE	0.500	8.81	9.02	2.4	±20
TRICHLOROETHENE	0.500	9.06	9.13	0.8	±20
TOLUENE	0.500	10.2	9.83	3.7	±20
CHLOROBENZENE	0.500	9.94	9.93	0.1	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.

LABORATORY QUALITY CONTROL REPORT

BATCH ID: 011817W1

DATE EXTRACTED: 01/18/2017

DATE ANALYZED: 01/18/2017

METHOD: DRO SAMPLE TYPE: WATER

REFERENCE: EPA 8015B UNITS: mg/L

METHOD BLANK ID: B011817W1

 COMPOUND NAME
 REPORTING
 SAMPLE

 LIMIT
 CONC

 DRO
 0.0500
 ND

SAMPLE ID: L011817W1

DUPLICATE ID: D011817W1

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	2.50	ND	2.12	85	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	SPIKE DUPLICATE		LIMITS	
	LIMIT	RESULT	RESULT	(%)	(%)	
DRO	0.0500	2.12	2.05	3.6	±20	

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

Erler & Kalinow	ski, Inc.		CHAIN	OF CUS	TODY RECO	RD								PA	AGEOF
CONSULTING ENGINEERS AND SCIENTISTS			1870 Ogden	Drive, Burlin	game CA 94010	www.ekiconsult.com PHONE: 650-292-9099			V	FAX: 650-552-9012					
Project Name: Horton St UST Location:			Project No.: B20006.00 T7						ANALYSES REQUESTED		GeoTracker Global ID #: T10000007323				
Emeryville, CA Reporting: Electronic Format: EDF	eryville, CA G. Bruns ting: Laboratory			Sampled By: G. Brunst & K. Mitchell Laboratory: K-Prime Laboratories, Inc.		EPA 8015m EPA 8015m EPA 8260 Method No.						ЕХРЕСТЕО	Revision: (A, B, C, D, etc.)		
EPA Data Report Level: II Please report results to the following people:			3621 Westwind Boulevard Santa Rosa, CA, USA 95403		VOCs & MTBE Analyte / Group		TPH-d TPH-g VOCs &				Extract		H HUT DAT	Date: By:	
(1) Data Archive: labs@ekiconsult.co (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@e (4) Graeme Brunst: gbrunst@ekicon (5) Kel Mitchell: kmitchell@ekiconsu	om kiconsult.com sult.com		(707) 527-7574		7574		TPH-g VOCs & MTBE						Extract and HOLD	TURNAROUND TIME	Remarks
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Ty	pe									
B-1-5-1-	151717	217/12/25	020	Water	6 VOAs (HCI)		XX							Q72	
15W-5-15	131411	01 1000	0167		1-L Amber			X						CTZ	
15W-5-15-DUR	151218	si Janesit	जार े	Water	6 VOAs (HCI) 1-L Amber		X×	£ . X				_		550	
A Copper of	101210				6 VOAs (HCl)			-						STD	
				Water	1-L Amber								+		
			Water		6 VOAs (HCI)										
				water	1-L Amber										
				Water	6 VOAs (HCI)										
				, tate	1-L Amber										
		·	And the state of t	Water	6 VOAs (HCI)										
					1-L Amber										
Special Instructions:										- I	I				
Relinquished by: (Signature/Affiliation) Relinquished by: (Signature/Affiliation)			Date & Time 1-31-17 (600) Received by: (Signature/Affiliation of the control of			1	(_,	r Carrier/A	31/12 you						
Enol (VTC)				Date & Time 1/31/17 17:52				Rec	Received by: (Signature/Affiliation)						
Relinguished by: (Signature/Affiliation)				Date & Time				Rec	eived by:	(Signatur	Affiliat	on)	-		

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.

Santa Rosa CA 95403 Phone: 707 527 7574

9115

B20006.00 T7

FAX: 707 527 7879

ACCT:

PROI:

TRANSMITTAL

DATE:

2/3/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

MR. KEL MITCHELL

Phone:

650-292-9100 650-552-9012

Fax: Email:

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jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

RAKM CM 2/3/8017

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
EB20170131	WATER	1/31/2017	10:00	151219
TB20170131	WATER	1/31/2017	11:40	151220

The above listed sample group was received on on the chain of custody document.

1/31/2017 and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

	SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH NO	DATE ANALYZED	MRL	SAMPLE CONC	GRO PATTERN
	EB20170131	151219	01/31/2017	10:00	011817W1	02/01/2017	0.050	ND	
Γ	TB20170131	151220	01/31/2017	11:40	020217W1	02/02/2017	0.050	ND	

NOTES

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY:

DATE: 02/03/17

SAMPLE ID: EB20170131 LAB NO: 151219 DATE SAMPLED: 01/31/2017 TIME SAMPLED: 10:00 BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER REFERENCE: EPA 5030/8260 UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: EB20170131 **LAB NO:** 151219 **DATE SAMPLED:** 01/31/2017 TIME SAMPLED: 10:00 **BATCH NO:** 020117W1

DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER **REFERENCE: EPA 5030/8260** UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	104
TOLUENE-D8	104
4-BROMOFLUOROBENZENE	95

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE: 02/03/1)

SAMPLE ID: TB20170131

LAB NO: 151220

DATE SAMPLED: 01/31/2017

TIME SAMPLED: 11:40

BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER REFERENCE: EPA 5030/8260 UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: TB20170131 LAB NO: 151220 DATE SAMPLED: 01/31/2017 TIME SAMPLED: 11:40 BATCH NO: 020117W1

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	108
TOLUENE-D8	106
4-BROMOFLUOROBENZENE	95

NOTES

 \mbox{ND} - \mbox{NOT} DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE: 02/03/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO

REFERENCE: EPA 8015B

SAMPLE TYPE: WATER

UNITS: mg/L

SAMPLE ID LAB NO. DATE **BATCH EXTRACT** DATE MRL SAMPLE DRO

SAMPLED ID DATE **ANALYZED** CONC **PATTERN** EB20170131 151219 01/31/2017 011817W1 | 02/01/2017 | 02/01/2017 0.0505 ND

NOTES:

DRO Diesel Range Organics (C12-C23)

ND Not Detected at or above the stated MRL

NΑ Not Applicable or Available MRL Method Reporting Limit

ΑD Typical Pattern for Diesel

ΑM Hydrocarbon response is in the C12-C22 range

AC Heavier hydrocarbons contributing to diesel range quantitation

ΑJ Heavier hydrocarbon than diesel ΑK Lighter hydrocarbon than diesel

ΑE Unknown hydrocarbon with a single peak

ΑN Unknown hydrocarbon with several peaks

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: HRO

SAMPLE TYPE: WATER

REFERENCE: EPA 8015B

UNITS: mg/L

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	HRO
		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
EB20170131	151219	01/31/2017	011817W1	02/01/2017	02/01/2017	0.0505	ND	
				*	····			L

NOTES:

HRO Heavy Range Organics (C24-C34)
ND Not Detected at or above the stated MRL

NA Not Applicable or Available MRL Method Reporting Limit

AE Unknown hydrocarbon with a single peak
AN Unknown hydrocarbon with several peaks

APPROVED BY:

DATE:

62/03/1

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B011817W1 BATCH NO: 011817W1

SAMPLE TYPE: WATER UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 01/18/2017
DATE ANALYZED: 01/18/2017

 COMPOUND NAME
 REPORTING CONC

 TPH-G
 0.050
 ND

SAMPLE ID: L011817W1
DUPLICATE ID: D011817W1
BATCH NO: 011817W1
SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 01/18/2017 DATE ANALYZED: 01/18/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.521	104	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.521	0.504	3.3	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B020217W1
BATCH NO: 020217W1
SAMPLE TYPE: WATER

UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 02/02/2017
DATE ANALYZED: 02/02/2017

 COMPOUND NAME
 REPORTING SAMPLE

 LIMIT CONC

 TPH-G
 0.050 ND

SAMPLE ID: L020217W1
DUPLICATE ID: D020217W1
BATCH NO: 020217W1
SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 02/02/2017 DATE ANALYZED: 02/02/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.463	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.463	0.439	5.5	±20

NOTES

 \mbox{ND} - \mbox{NOT} DETECTED AT OR ABOVE THE STATED REPORTING LIMIT \mbox{NA} - \mbox{NOT} APPLICABLE

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND ND
ETHYLBENZENE	100-41-4	0.500	ND ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND ND
STYRENE	100-42-5	0.500	ND ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND ND
BROMOBENZENE	108-86-1	0.500	ND ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND ND
N-PROPYLBENZENE	103-65-1	0.500	ND ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	99

NOTES

 $\ensuremath{\mathsf{ND}}$ - $\ensuremath{\mathsf{NOT}}$ DETECTED AT OR ABOVE THE STATED REPORTING LIMIT $\ensuremath{\mathsf{NA}}$ -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B020117W1
SPIKE ID: L020117W1
DUPLICATE ID: D020117W1
BATCH NO: 020117W1

SAMPLE TYPE: WATER

UNITS: µg/L

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	10.0	ND	8.40	84	60-140
BENZENE	10.0	ND	8.81	88	60-140
TRICHLOROETHENE	10.0	ND	9.06	91	60-140
TOLUENE	10.0	ND	10.2	102	60-140
CHLOROBENZENE	10.0	ND	9.94	99	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	0.500	8.40	7.64	9.5	±20
BENZENE	0.500	8.81	9.02	2.4	±20
TRICHLOROETHENE	0.500	9.06	9.13	0.8	±20
TOLUENE	0.500	10.2	9.83	3.7	±20
CHLOROBENZENE	0.500	9.94	9.93	0.1	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

BATCH ID: 011817W1 **DATE EXTRACTED:** 01/18/2017 **DATE ANALYZED:** 01/18/2017

METHOD: DRO

SAMPLE TYPE:

WATER

REFERENCE: EPA 8015B

UNITS: mg/L

METHOD BLANK ID: B011817W1

 COMPOUND NAME
 REPORTING
 SAMPLE

 LIMIT
 CONC

 DRO
 0.0500
 ND

SAMPLE ID: L011817W1

DUPLICATE ID: D011817W1

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	2.50	ND	2.12	85	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	0.0500	2.12	2.05	3.6	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE OF

CONSULTING ENGINEERS AN	O SCIENTISTS		1870 Ogden C	Prive, Burlin	game CA 94010	wwv	v.ek	icor	rsult	.com PHONE: 650-292	-9099)	***************************************	FAX: 650-552-9012
Project Name: Horton St UST		4	Project No.: 820006.00	17				***************************************		ANALYSES REQUESTED				cker Global ID #:
Location: Emeryville, CA Reporting: Electronic Format: EDF EPA Data Report Level: II Please report results to the fo (1) Data Archive: labs@ekiconsult.com (3) Jessica Daugherty: jdaugherty@e (4) Graeme Brunst: gbrunst@ekiconsult.kdekiconsult.com (5) Kel Mitchell: kmitchell@ekiconsult.	llowing people: om ekiconsult.com sult.com	Format: PDF	Laboratory: K-Prime L 3621 We	& K. Mitchell aboratories stwind Boul sa, CA, USA 7-7574	evard			8015m TPH-E	EPA 8015m TPH-d & TPH-mo		Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: A (A, B, C, D, etc.) Date: 2/1/17 By: RF
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CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.

Santa Rosa CA 95403 Phone: 707 527 7574

707 527 7879 FAX:

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/3/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST MR. KEL MITCHELL

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100 650-552-9012

Fax: Email:

labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D. RALM CM 3131017
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
TS-3.5-4.0	SOIL	1/31/2017	11:20	151221
TS-7.5-8.0	SOIL	1/31/2017	12:45	151222

The above listed sample group was received on on the chain of custody document.

1/31/2017 and tested as requested

Please call me if you have any questions or need further information.

Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

REFERENCE: EPA 8015B

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS

SAMPLE TYPE: SOIL

UNITS: mg/Kg

	SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH NO	DATE ANALYZED	MRL	SAMPLE CONC	GRO PATTERN
ſ	TS-3.5-4.0	151221	01/31/2017	11:20	02011 7 S1	02/01/2017	1.00	ND	
Ī	TS-7.5-8.0	151222	01/31/2017	12:45	020117S1	02/01/2017	1.00	14.4	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY:

SAMPLE ID: TS-3.5-4.0 LAB NO: 151221 DATE SAMPLED: 01/31/2017 TIME SAMPLED: 11:20 BATCH NO: 013117S1 DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: SOILREFERENCE: EPA 5035/8260UNITS: μg/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.34	ND
CHLOROMETHANE	74-87-3	1.34	ND
VINYL CHLORIDE	75-01-4	1.34	ND
BROMOMETHANE	74-83-9	1.34	ND
CHLOROETHANE	75-00-3	1.34	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.34	ND
1.1-DICHLOROETHENE	75-35-4	1.34	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.34	ND
METHYLENE CHLORIDE	75-09-2	6.68	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.34	ND
1.1-DICHLOROETHANE	75-34-3	1.34	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.34	ND
2,2-DICHLOROPROPANE	594-20-7	1.34	ND
BROMOCHLOROMETHANE	74-97-5	1.34	ND
CHLOROFORM	67-66-3	1.34	ND
1.1.1-TRICHLOROETHANE	71-55-6	1.34	ND
CARBON TETRACHLORIDE	56-23-5	1.34	ND
1,1-DICHLOROPROPENE	563-58-6	1.34	ND
BENZENE	71-43-2	1.34	ND
1.2-DICHLOROETHANE	107-06-2	1.34	ND
TRICHLOROETHENE	79-01-6	1.34	ND
1,2-DICHLOROPROPANE	78-87-5	1.34	ND
DIBROMOMETHANE	74-95-3	1.34	ND
BROMODICHLOROMETHANE	75-27-4	1.34	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.34	ND
TOLUENE	108-88-3	1.34	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.34	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.34	ND
TETRACHLOROETHENE	127-18-4	1.34	ND
1.3-DICHLOROPROPANE	142-28-9	1.34	ND
DIBROMOCHLOROMETHANE	124-48-1	1.34	ND
1 2-DIBROMOETHANE	106-93-4	1.34	ND
CHLOROBENZENE	108-90-7	1.34	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.34	ND
ETHYLBENZENE	100-41-4	1.34	ND
XYLENE (M+P)	1330-20-7	1.34	ND
XYLENE (O)	1330-20-7	1,34	ND
STYRENE	100-42-5	1.34	ND
BROMOFORM	75-25-2	1.34	ND
ISOPROPYLBENZENE	98-82-8	1.34	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.34	ND
BROMOBENZENE	108-86-1	1.34	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.34	ND
N-PROPYLBENZENE	103-65-1	1.34	ND
2-CHLOROTOLUENE	95-49-8	1.34	ND
Z-OFFEDINO FOLULIAL	1 00 10 0	1 1	

SAMPLE ID: TS-3.5-4.0 **LAB NO:** 151221 **DATE SAMPLED:** 01/31/2017 TIME SAMPLED: 11:20 **BATCH NO:** 013117S1

DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

SAMPLE TYPE: SOIL METHOD: VOLATILE ORGANIC COMPOUNDS **UNITS:** μg/Kg REFERENCE: EPA 5035/8260

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.34	ND
4-CHLOROTOLUENE	106-43-4	1.34	ND
TERT-BUTYLBENZENE	98-06-6	1.34	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.34	ND
SEC-BUTYLBENZENE	135-98-8	1.34	ND
1,3-DICHLOROBENZENE	541-73-1	1.34	ND
4-ISOPROPYLTOLUENE	99-87-6	1.34	ND
1,4-DICHLOROBENZENE	106-46-7	1.34	ND
N-BUTYLBENZENE	104-51-8	1.34	ND
1,2-DICHLOROBENZENE	95-50-1	1.34	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.34	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.67	ND
HEXACHLOROBUTADIENE	87-68-3	2.67	ND
NAPHTHALENE	91-20-3	2.67	ND
1,2,3-TRICHLOROBENZENE	87-61-6	2.67	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.34	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	116
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	93

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE: 07/03

SAMPLE ID: TS-7.5-8.0 LAB NO: 151222 DATE SAMPLED: 01/31/2017 TIME SAMPLED: 12:45 BATCH NO: 013117S1 DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: SOILREFERENCE: EPA 5035/8260UNITS: μg/Kg

DICHLORODIFLUOROMETHANE	COMPOUND NAME	CAS NO.	REPORTING	SAMPLE
CHLOROMETHANE		T == = 1.5	LIMIT	CONC
NINYL CHLORIDE				
BROMOMETHANE				
CHLOROETHANE 75-00-3 16.9 ND				
TRICHLOROFLUOROMETHANE 75-69-4 16.9 ND				
1,1-Dichloroethene			<u> </u>	
TRICHLOROTRIFLUOROETHANE 76-13-1 16.9 ND				
METHYLENE CHLORIDE 75-09-2 84.5 ND TRANS-1,2-DICHLOROETHENE 156-60-5 16.9 ND 1,1-DICHLOROETHANE 75-34-3 16.9 ND CIS-1,2-DICHLOROETHENE 156-59-2 16.9 ND 2,2-DICHLOROPROPANE 594-20-7 16.9 ND BROMOCHLOROMETHANE 74-97-5 16.9 ND CHLOROFORM 67-66-3 16.9 ND CHLOROFORM 67-66-3 16.9 ND CARBON TETRACHLORIDE 56-23-5 16.9 ND CARBON TETRACHLORIDE 562-23-5 16.9 ND 1,1-DICHLOROPROPENE 563-58-6 16.9 ND 1,2-DICHLOROPROPENE 107-06-2 16.9 ND 1,2-DICHLOROPETHANE 707-06-2 16.9 ND TRICHLOROETHANE 74-95-3 16.9 ND TRICHLOROPROPANE 78-87-5 16.9 ND DIBROMOETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 1				
TRANS-1,2-DICHLOROETHENE 156-60-5 16.9 ND 1,1-DICHLOROETHANE 75-34-3 16.9 ND CIS-1,2-DICHLOROETHENE 156-59-2 16.9 ND 2,2-DICHLOROPROPANE 594-20-7 16.9 ND BROMOCHLOROMETHANE 74-97-5 16.9 ND CHLOROFORM 67-66-3 16.9 ND CHLOROFORM 67-66-3 16.9 ND CARBON TETRACHLORIDE 56-23-5 16.9 ND CARBON TETRACHLORIDE 56-23-5 16.9 ND 1,1-DICHLOROPROPENE 563-58-6 16.9 ND 1,2-DICHLOROPROPENE 107-06-2 16.9 ND 1,2-DICHLOROETHANE 79-01-6 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND BROMDOICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9<				
1,1-DICHLOROETHANE 75-34-3 16.9 ND CIS-1,2-DICHLOROETHENE 156-59-2 16.9 ND 2,2-DICHLOROPROPANE 594-20-7 16.9 ND BROMOCHLOROMETHANE 74-97-5 16.9 ND CHLOROFORM 67-66-3 16.9 ND CHLOROFORM 67-66-3 16.9 ND CARBON TETRACHLORIDE 56-23-5 16.9 ND BENZENE 71-43-2 16.9 ND BENZENE 71-43-2 16.9 ND 1,2-DICHLOROETHANE 107-06-2 16.9 ND TRICHLOROETHANE 74-95-3 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND DIBROMOMETHANE 75-27-4 16.9 ND TRICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND TETLACHLOROETHENE 79-00-5 16.9 ND TETLACHLOROETHANE 79-00-5 16.9 ND TETLACHLOROETHANE 127-18-4 16.9 ND DIBROMODICHLOROPROPENE 10061-01-5 16.9 ND TETLACHLOROETHENE 127-18-4 16.9 ND TETLACHLOROETHENE 127-18-4 16.9 ND DIBROMODICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND DIBROMOCHLOROMETHANE 130-20-7 16.9 ND THYLERE NO ND THE TRACHLOROETHENE 100-41-4 16.9 ND THE TRACHLOROETHANE 100-41-4 16.9				
CIS-1,2-DICHLOROETHENE 156-59-2 16.9 ND 2,2-DICHLOROPROPANE 594-20-7 16.9 ND BROMOCHLOROMETHANE 74-97-5 16.9 ND CHLOROFORM 67-66-3 16.9 ND L1,1-TRICHLOROETHANE 71-55-6 16.9 ND CARBON TETRACHLORIDE 56-23-5 16.9 ND 1,1-DICHLOROPROPENE 563-58-6 16.9 ND BENZENE 71-43-2 16.9 ND 1,2-DICHLOROETHANE 107-06-2 16.9 ND TRICHLOROETHENE 79-01-6 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND TOLUENE 108-88-3 16.9 ND TOLUENE 10061-01-5 16.9 ND TOLUENE 10061-01-5 16.9 ND <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
2,2-DICHLOROPROPANE 594-20-7 16.9 ND BROMOCHLOROMETHANE 74-97-5 16.9 ND CHLOROFORM 67-66-3 16.9 ND CHLOROFORM 67-66-3 16.9 ND CHLOROFORM 67-66-3 16.9 ND CARBON TETRACHLORIDE 56-23-5 16.9 ND 1,1-DICHLOROPROPENE 563-58-6 16.9 ND 1,1-DICHLOROPROPENE 563-58-6 16.9 ND BENZENE 71-43-2 16.9 ND TRICHLOROETHANE 107-06-2 16.9 ND TRICHLOROETHANE 107-06-2 16.9 ND TRICHLOROPROPANE 78-87-5 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND DIBROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND TOLUENE 108-88-3 16.9 ND TIL-TRICHLOROETHANE 79-00-5 16.9 ND TIL-TRICHLOROETHANE 79-00-5 16.9 ND TIL-TRICHLOROETHANE 127-18-4 16.9 ND TIL-TRICHLOROETHANE 127-18-4 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND TIL-TRICHLOROPROPANE 142-28-9 16.9 ND TIL-TRICHLOROPROPANE 142-28-9 16.9 ND TIL-TRICHLOROETHANE 124-48-1 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND TIL-TRICHLOROETHANE 1330-20-7 16.9 ND TIL-TRICHLOROETHANE 100-41-4 16.9 ND TIL-TRICHLOROETHANE 130-20-6 16.9 ND TIL-TRICHLOROETHANE 130-20-7 16.9 ND TIL-TRICHLOROETHANE 100-42-5 16.9 ND TIL-TR	1,1-DICHLOROETHANE			
BROMOCHLOROMETHANE 74-97-5 16.9 ND	CIS-1,2-DICHLOROETHENE	156-59-2		
CHLOROFORM 67-66-3 16.9 ND 1,1,1-TRICHLOROETHANE 71-55-6 16.9 ND CARBON TETRACHLORIDE 56-23-5 16.9 ND 1,1-DICHLOROPROPENE 563-58-6 16.9 ND 1,2-DICHLOROETHANE 107-06-2 16.9 ND 1,2-DICHLOROETHANE 107-06-2 16.9 ND 1,2-DICHLOROETHANE 107-06-2 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND TETRACHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHANE 127-18-4 16.9 ND TETRACHLOROETHANE 127-18-4 16.9 ND TETRACHLOROETHANE 127-18-4 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND DIBROMOCHLOROMETHANE 106-93-4 16.9 ND DIBROMOCHLOROMETHANE 106-93-4 16.9 ND DIBROMOCHLOROMETHANE 108-90-7 16.9 ND TL2-DIBROMOCHLOROMETHANE 108-90-7 16.9 ND TL3-DICHLOROBENE 108-90-7 16.9 ND TL1,1,1-TETRACHLOROETHANE 108-90-7 16.9 ND TL1,1,2-TETRACHLOROETHANE 108-90-7 16.9 ND TL1,1	2,2-DICHLOROPROPANE	594-20-7		
1,1,1-TRICHLOROETHANE	BROMOCHLOROMETHANE	74-97-5		
CARBON TETRACHLORIDE 56-23-5 16.9 ND 1,1-DICHLOROPROPENE 563-58-6 16.9 ND BENZENE 71-43-2 16.9 ND 1,2-DICHLOROETHANE 107-06-2 16.9 ND TRICHLOROETHANE 79-01-6 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND TETRACHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHANE 127-18-4 16.9 ND TETRACHLOROETHANE 127-18-4 16.9 ND TOLUENE 108-88-3 16.9 ND TOLUENE 108-88-3 16.9 ND TETRACHLOROETHANE 127-18-4 16.9 ND TETRACHLOROETHANE 127-18-4 16.9 ND TETRACHLOROPROPANE 142-28-9 16.9 ND TI-1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND TI-1,1-TETRACHLOROETHANE 106-93-4 16.9 ND TI-1,1-TETRACHLOROETHANE 106-93-4 16.9 ND TI-1,1-TETRACHLOROETHANE 106-93-4 16.9 ND TI-1,1-TETRACHLOROETHANE 100-41-4 16.9 ND TI-1,1-TETRACHLOROETHANE 100-41-4 16.9 ND TI-1,1-TETRACHLOROETHANE 100-41-4 16.9 ND TI-1,1-TETRACHLOROETHANE 100-41-4 16.9 ND TYLENE (M+P) 1330-20-7 16.9 ND TYLENE (M+P) ND TYLEN	CHLOROFORM	67-66-3	16.9	
1,1-DICHLOROPROPENE 563-58-6 16.9 ND BENZENE 71-43-2 16.9 ND 1,2-DICHLOROETHANE 107-06-2 16.9 ND TRICHLOROPTHANE 79-01-6 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND BROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND 1,1,2-TETRACHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 100-41-4 16	1,1,1-TRICHLOROETHANE	71-55-6	16.9	
BENZENE 71-43-2 16.9 ND 1,2-DICHLOROETHANE 107-06-2 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND 1,2-DICHLOROMETHANE 74-95-3 16.9 ND BROMODICHLOROMETHANE 74-95-3 16.9 ND BROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND TOLUENE 108-88-3 16.9 ND TOLUENE 108-88-3 16.9 ND TETRACHLOROPROPENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHANE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 108-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND TETRY LERENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-52-2 16.9 ND BROMOFORM 75-52-2 16.9 ND SOPROPYLBENZENE 108-86-1 16.9 ND BROMOBENZENE 108-86-1 16.9 ND ROMOBENZENE 108-86-1 16.9 ND ROMOBENZENE 108-86-1 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND N	CARBON TETRACHLORIDE	56-23-5		ND
1,2-DICHLOROETHANE 107-06-2 16.9 ND TRICHLOROETHENE 79-01-6 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND BROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND TOLUENE 108-88-3 16.9 ND TOLUENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROPROPENE 10061-01-5 16.9 ND TETRACHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHENE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND DIBROMOCHLOROMETHANE 106-93-4 16.9 ND 1,1,1,2-TETRACHLOROETHANE 108-90-7 16.9 ND TETYLOROBENZENE 108-90-7 16.9 ND THYLBENZENE 100-41-4 16.9 ND THYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND STYRENE 100-42-5 16.9 ND SOPROPYLBENZENE 198-82-8 16.9 ND SOPROPYLBENZENE 108-86-1 16.9 ND ROMOBENZENE 108-86-1 16.9 ND ROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND N-PROPYLBENZENE	1,1-DICHLOROPROPENE	563-58-6	16.9	ND
TRICHLOROETHENE 79-01-6 16.9 ND 1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND BROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND T_1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHENE 127-18-4 16.9 ND T_3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND DIBROMOCHLOROMETHANE 106-93-4 16.9 ND T_1,2-DIBROMOETHANE 106-93-4 16.9 ND T_1,1,2-TETRACHLOROETHANE 108-90-7 16.9 ND T_1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND T_1,1,1,2-TETRACHLOROETHANE 100-41-4 16.9 ND T_1,1,1,2-TETRACHLOROETHANE 100-41-4 16.9 ND T_1,1,1,2-TETRACHLOROETHANE 100-42-5 16.9 ND TYLENE (M+P) 1330-20-7 16.9 ND TYLENE (O) 1330-20-7 16.9 ND TYLENE (O) 1330-20-7 16.9 ND TYLENE (D) 100-42-5 16.9 ND DEROMOFORM 75-25-2 16.9 ND DEROMOFORM 75-25-	BENZENE	71-43-2	16.9	ND
1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND BROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND 1,3-DICHLOROETHANE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND STYRENE 100-42-5	1,2-DICHLOROETHANE	107-06-2	16.9	ND
1,2-DICHLOROPROPANE 78-87-5 16.9 ND DIBROMOMETHANE 74-95-3 16.9 ND BROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND 1,1,2-TRICHLOROETHANE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND 1,2-DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND 2,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5	TRICHLOROETHENE	79-01-6	16.9	ND
DIBROMOMETHANE 74-95-3 16.9 ND BROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHENE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND </td <td></td> <td>78-87-5</td> <td>16.9</td> <td>ND</td>		78-87-5	16.9	ND
BROMODICHLOROMETHANE 75-27-4 16.9 ND TRANS-1,3-DICHLOROPROPENE 10061-02-6 16.9 ND TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHENE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 108-86-1 16.9 N		74-95-3	16.9	ND
TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHENE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		75-27-4	16.9	ND
TOLUENE 108-88-3 16.9 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 16.9 ND 1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHENE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND 1,1,2-DIBROMOETHANE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND 2,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9	TRANS-1,3-DICHLOROPROPENE	10061-02-6	16.9	ND
1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHENE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		108-88-3	16.9	ND
1,1,2-TRICHLOROETHANE 79-00-5 16.9 ND TETRACHLOROETHENE 127-18-4 16.9 ND 1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND ND ND ND ND N-PROPYLBENZENE 103-65-1 16.9 ND	CIS-1,3-DICHLOROPROPENE	10061-01-5	16.9	ND
1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		79-00-5	16.9	ND
1,3-DICHLOROPROPANE 142-28-9 16.9 ND DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND	TETRACHLOROETHENE	127-18-4	16.9	ND
DIBROMOCHLOROMETHANE 124-48-1 16.9 ND 1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		142-28-9	16.9	ND
1,2-DIBROMOETHANE 106-93-4 16.9 ND CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND	DIBROMOCHLOROMETHANE	124-48-1	16.9	ND
CHLOROBENZENE 108-90-7 16.9 ND 1,1,1,2-TETRACHLOROETHANE 630-20-6 16.9 ND ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		106-93-4	16.9	ND
ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		108-90-7	16.9	ND
ETHYLBENZENE 100-41-4 16.9 ND XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND	1.1.1.2-TETRACHLOROETHANE	630-20-6	16.9	ND
XYLENE (M+P) 1330-20-7 16.9 ND XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		100-41-4	16.9	ND
XYLENE (O) 1330-20-7 16.9 ND STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND	XYLENE (M+P)	1330-20-7	16.9	ND
STYRENE 100-42-5 16.9 ND BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		1330-20-7	16.9	ND
BROMOFORM 75-25-2 16.9 ND ISOPROPYLBENZENE 98-82-8 16.9 ND 1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND	, — <u> </u>			ND
SOPROPYLBENZENE 98-82-8 16.9 ND		75-25-2	16.9	ND
1,1,2,2-TETRACHLOROETHANE 79-34-5 16.9 ND BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND			16.9	ND
BROMOBENZENE 108-86-1 16.9 ND 1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND		<u> </u>		ND
1,2,3-TRICHLOROPROPANE 96-18-4 16.9 ND N-PROPYLBENZENE 103-65-1 16.9 ND				ND
N-PROPYLBENZENE 103-65-1 16.9 ND			16.9	ND
ND ND				ND
7-CHLOROTOLUENE 93-49-0 10.5 ND 1	2-CHLOROTOLUENE	95-49-8	16.9	ND

SAMPLE ID: TS-7.5-8.0 LAB NO: 151222 DATE SAMPLED: 01/31/2017 TIME SAMPLED: 12:45 BATCH NO: 013117S1 DATE ANALYZED: 02/01/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: SOILREFERENCE: EPA 5035/8260UNITS: μg/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	16.9	ND
4-CHLOROTOLUENE	106-43-4	16.9	ND
TERT-BUTYLBENZENE	98-06-6	16.9	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	16.9	ND
SEC-BUTYLBENZENE	135-98-8	16.9	ND
1,3-DICHLOROBENZENE	541-73-1	16.9	ND
4-ISOPROPYLTOLUENE	99-87-6	16.9	ND
1,4-DICHLOROBENZENE	106-46-7	16.9	ND
N-BUTYLBENZENE	104-51-8	16.9	ND
1,2-DICHLOROBENZENE	95-50-1	16.9	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	16.9	ND
1,2,4-TRICHLOROBENZENE	120-82-1	33.8	ND
HEXACHLOROBUTADIENE	87-68-3	33.8	ND
NAPHTHALENE	91-20-3	33.8	ND
1,2,3-TRICHLOROBENZENE	87-61-6	33.8	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	16.9	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	94
TOLUENE-D8	100
4-BROMOFLUOROBENZENE	105

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

02/02/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO **SAMPLE TYPE:** SOIL

REFERENCE: EPA 8015B UNITS: mg/Kg dry weight

	SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	DRO
			SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
Г	TS-3.5-4.0	151221	01/31/2017	012317S1	02/01/2017	02/01/2017	13.2	ND	
	TS-7.5-8.0	151222	01/31/2017	012317S1	02/01/2017	02/01/2017	12.6	87.9	AC

NOTES:	
DRO	Diesel Range Organics (C12-C23)
ND	Not Detected at or above the stated MRL
NA	Not Applicable or Available
MRL	Method Reporting Limit
AD	Typical Pattern for Diesel
AM	Hydrocarbon response is in the C12-C22 range
AC	Heavier hydrocarbons contributing to diesel range quantitation
AJ	Heavier hydrocarbon than diesel
AK	Lighter hydrocarbon than diesel
ΑE	Unknown hydrocarbon with a single peak
ΔN	Unknown hydrocarbon with several peaks

APPROVED BY: 02/03/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

SAMPLE TYPE: SOIL METHOD: HRO

UNITS: mg/Kg dry weight **REFERENCE: EPA 8015B**

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	HRO
		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TS-3.5-4.0	151221	01/31/2017	012317S1	02/01/2017	02/01/2017	13.2	ND	
TS-7.5-8.0	151222	01/31/2017	012317S1	02/01/2017	02/01/2017	12.6	95.7	

NOTES:

Heavy Range Organics (C24-C34) HRO Not Detected at or above the stated MRL ND Not Applicable or Available NA MRL Method Reporting Limit Unknown hydrocarbon with a single peak ΑE

Unknown hydrocarbon with several peaks ΑN

APPROVED BY: 02/03/1

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: PERCENT MOISTURE SAMPLE TYPE: SOIL

REFERENCE: ASTM D 2216-05 UNITS: %

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE
		SAMPLED	SAMPLED	ΙD	ANALYZED		CONC
TS-3.5-4.0	151221	01/31/2017	11:20	020117S1	02/02/2017	0.100	24.3
TS-7.5-8.0	151222	01/31/2017	12:45	020117S1	02/02/2017	0.100	20.8

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT AVAILABLE OR APPLICABLE MRL - METHOD REPORTING LIMIT

APPROVED BY:

DATE: 07/02/17

METHOD BLANK ID: B020117S1
BATCH NO: 020117S1
SAMPLE TYPE: SOIL

UNITS: mg/Kg

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 02/01/2017
DATE ANALYZED: 02/01/2017

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.00	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT AVAILABLE OR APPLICABLE

SAMPLE ID: L020117S1
DUPLICATE ID: D020117S1
BATCH NO: 020117S1
SAMPLE TYPE: SOIL
UNITS: mg/Kg

DATE EXTRACTED: 02/01/2017 **DATE ANALYZED:** 02/01/2017

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	5.00	ND	4.53	91	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	1.00	4.53	4.32	4.7	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

METHOD BLANK ID: B013117S1 BATCH NO: 013117S1 DATE ANALYZED: 01/31/2017

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL REFERENCE: EPA 5035/8260 UNITS: $\mu g/Kg$

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC	
DICHLORODIFLUOROMETHANE	75-71-8	1.34	ND	
CHLOROMETHANE	74-87-3	1.34	ND	
VINYL CHLORIDE	75-01-4	1.34	ND	
BROMOMETHANE	74-83-9	1.34	ND	
CHLOROETHANE	75-00-3	1.34	ND	
TRICHLOROFLUOROMETHANE	75-69-4	1.34	ND	
1,1-DICHLOROETHENE	75-35-4	1.34	ND	
TRICHLOROTRIFLUOROETHANE	76-13-1	1.34	ND	
METHYLENE CHLORIDE	75-09-2	6.68	ND	
TRANS-1,2-DICHLOROETHENE	156-60-5	1.34	ND	
1,1-DICHLOROETHANE	75-34-3	1.34	ND	
CIS-1,2-DICHLOROETHENE	156-59-2	1.34	ND	
2,2-DICHLOROPROPANE	594-20-7	1.34	ND	
BROMOCHLOROMETHANE	74-97-5	1.34	ND	
CHLOROFORM	67-66-3	1.34	ND	
1,1,1-TRICHLOROETHANE	71-55-6	1.34	ND	
CARBON TETRACHLORIDE	56-23-5	1.34	ND	
1,1-DICHLOROPROPENE	563-58-6	1.34	ND	
BENZENE	71-43-2	1.34	ND	
1,2-DICHLOROETHANE	107-06-2	1.34	ND	
TRICHLOROETHENE	79-01-6	1.34	ND	
1,2-DICHLOROPROPANE	78-87-5	1.34	ND	
DIBROMOMETHANE	74-95-3	1.34	ND	
BROMODICHLOROMETHANE	75-27-4	1.34	ND	
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.34	ND	
TOLUENE	108-88-3	1.34	ND	
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.34	ND ND	
1,1,2-TRICHLOROETHANE	79-00-5	1.34	ND ND	
TETRACHLOROETHENE	127-18-4	1.34	ND ND	
1,3-DICHLOROPROPANE	142-28-9	1.34	ND NB	
DIBROMOCHLOROMETHANE	124-48-1	1.34	ND NB	
1,2-DIBROMOETHANE	106-93-4	1.34	ND ND	
CHLOROBENZENE	108-90-7	1.34	ND ND	
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.34	ND ND	
ETHYLBENZENE	100-41-4	1.34	ND ND	
XYLENE (M+P)	1330-20-7	1.34	ND ND	
XYLENE (O)	1330-20-7	1.34	ND ND	
STYRENE	100-42-5 75-25-2	1.34 1.34	ND ND	
BROMOFORM		1.34	ND ND	
ISOPROPYLBENZENE	98-82-8 79-34-5	1.34	ND ND	
1,1,2,2-TETRACHLOROETHANE BROMOBENZENE	108-86-1	1.34	ND ND	
	96-18-4	1.34	ND ND	
1,2,3-TRICHLOROPROPANE N-PROPYLBENZENE	103-65-1	1.34	ND ND	
	95-49-8		ND ND	
2-CHLOROTOLUENE	30-43-0	1.34	NU	

METHOD BLANK ID: B013117S1
BATCH NO: 013117S1
DATE ANALYZED: 01/31/2017

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL REFERENCE: EPA 5035/8260 UNITS: μg/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.34	ND
4-CHLOROTOLUENE	106-43-4	1.34	ND
TERT-BUTYLBENZENE	98-06-6	1.34	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.34	ND
SEC-BUTYLBENZENE	135-98-8	1.34	ND
1,3-DICHLOROBENZENE	541-73-1	1.34	ND
4-ISOPROPYLTOLUENE	99-87-6	1.34	ND
1,4-DICHLOROBENZENE	106-46-7	1.34	ND
N-BUTYLBENZENE	104-51-8	1.34	ND
1,2-DICHLOROBENZENE	95-50-1	1.34	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.34	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.67	ND
HEXACHLOROBUTADIENE	87-68-3	2.67	ND
NAPHTHALENE	91-20-3	2.67	ND
1,2,3-TRICHLOROBENZENE	87-61-6	2.67	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.34	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	128
TOLUENE-D8	116
4-BROMOFLUOROBENZENE	109

NOTES:

 \mbox{ND} - \mbox{NOT} DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B013117S1
SPIKE ID: L013117S1
DUPLICATE ID: D013117S1
BATCH NO: 013117S1

DATE ANALYZED: 1/31/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL UNITS: µg/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	30.0	ND	25.7	86	60-140
BENZENE	30.0	ND	28.6	95	60-140
TRICHLOROETHENE	30.0	ND	30.6	102	60-140
TOLUENE	30.0	ND	31.2	104	60-140
CHLOROBENZENE	30.0	ND	31.5	105	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	1.34	25.7	23.9	7.2	±20
BENZENE	1.34	28.6	29.3	2.4	±20
TRICHLOROETHENE	1.34	30.6	30.1	1.9	±20
TOLUENE	1.34	31.2	30.5	2.0	±20
CHLOROBENZENE	1.34	31.5	31.4	0.4	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC. LABORATORY QUALITY CONTROL REPORT

BATCH ID: 012317S1 **DATE EXTRACTED:** 01/23/2017 **DATE ANALYZED:** 01/23/2017

METHOD: DRO

SAMPLE TYPE:

SOIL

REFERENCE: EPA 8015B

UNITS: mg/Kg

METHOD BLANK ID: B012317S1

COMPOUND NAME REPORTING SAMPLE LIMIT CONC DRO 10.0 ND

SAMPLE ID: L012317S1

DUPLICATE ID: D012317S1

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	500	ND	467	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	10.0	467	464	0.6	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

SAMPLE ID: 151222 DUPLICATE ID: 151222DUP METHOD BLANK ID: B020117S1 BATCH NO: 020117S1

DATE ANALYZED: 02/02/2017

METHOD:PERCENT MOISTURESAMPLE TYPE: SOILREFERENCE:ASTM D 2216-05UNITS: %

PRECISION (DUPLICATE)

ANALYTE	REPORTING	PRIMARY	DUPLICATE	RPD
	LIMIT	RESULT	RESULT	(%)
% MOISTURE	0.100	20.8	20.7	0.5

NOTES:

 $\ensuremath{\mathsf{ND}}$ - $\ensuremath{\mathsf{NOT}}$ DETECTED AT OR ABOVE THE STATED REPORTING LIMIT $\ensuremath{\mathsf{NA}}$ - $\ensuremath{\mathsf{NOT}}$ APPLICABLE

RPD - RELATIVE PERCENT DIFFERENCE

Erler & Kalinowski, Inc.	Erler	8	Ka	linows	ki.	Inc.
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COMPONING ENGINEERS AN	AD SCIENTIZES		1870 Ogden	Drive, Burlin	game CA 94010	www.ekiconsult.com PHONE: 650-292-91 FAX: 650-552-9012			C: 650-552-9012								
Project Name: Horton St UST			<u>Project No.;</u> B20006.00	Project No.: ANALYSES REQUESTED GeoTrack B20006.00 T7 T100000				r Global ID #:									
Location: Emeryville, CA Reporting: Electronic Format: EDF EPA Data Report Level: II Please report results to the foi (1) Data Archive: labs@ekiconsult.com (3) Jessica Daugherty: jdaugherty@e (4) Graeme Brunst: gbrunst@ekicons (5) Kel Mitchell: kmitchell@ekiconsu	llowing people: om ekicansult.com sult.com	Format: PDF	Laboratory: K-Prime 3621 We	& K. Mitchell Laboratories estwind Boul osa, CA, USA	levard	hod No. Analy			ASTM D2216 Percent Moisture	E.				Extract and HOLD	ОТОН	EXPECTED TURNAROUND TIME	Revision: A (A, B, C, D, etc.) Date: By. 2/1/17 RF
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Typ			Ē	5								
TS-3.5-4.0	15/22/	31Jan 2017	1120	Soil	5 x 5-gram EnCore 4-oz glass jar	-	¥.	».	\ <u> </u>			Bacille comments and an artist and an artist and artist artist artist and artist ar			-	0.1	
TS-3.5-4.0 TS-7.5-8.0	151222	31Jan 2017 31Ján 7	245	Soil	5 x 5-gram EnCore 4-oz glass jar	•	λ	*	× X				ALLANO CITY FRANCISCO CONTROL CONTROL		3-2-2-2	σ_j	
				Soil	5 x 5-gram EnCore 4-oz glass jar	•	**************************************						alanta misson collection are market in collection.				
				Soil	5 x 5-gram EnCore	x											
		A STATE OF THE STA		Soil	5 x S-gram EnCore	÷						-	Open page of the control of the cont				A to the same of t
				Soil	5 x 5-gram EnCore 4-oz glass jar	*										MAIL (MAIN) AN ANN AN ANN AN AN AN AN AN AN AN AN A	
Special Instructions:	ase n	port re	su/ts	0/ 0	by weigh	+		Ba	S/	s.				· · · · · ·	iranorma ja		okunan esimäkin muunna ja
Relinquished by: [Signature/Affil Relinquished by: [Signature/Affil Relinquished by: [Signature/Affil	liation) (iation)	5k1 5)		Date & Time 1-31-17 / GOD Date & Time Neceived by: (Signature/Affiliation or Carrier/Air Bill Pate & Time 1/31/17 (7152) Received by: (Signature/Affiliation)			er/Air Bill No/										
Anni	nation!		MICROSON CO. Land Spiles (April 1979) and the spiles (Apri	Date & Time	e					Reco	eived (y: (S	ign a li	ire/Af	ffiliation)	

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574 FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/17/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST MR. KEL MITCHELL

MR. RYAN FORD

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100

Fax:

650-552-9012

Email:

labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com rford@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D. RAKM CT 2117/8017

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
TS-5-15	WATER	2/1/2017	09:30	151271
TC-4.5-14.5	WATER	2/1/2017	11:00	151272
TN-5.5-15.5	WATER	2/1/2017	14:15	151273

The above listed sample group was received on on the chain of custody document.

2/1/2017 and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 91

9115

CLIENT PROJECT:

B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

SAMPLE TYPE: WATER

UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH NO	DATE ANALYZED	MRL	SAMPLE	GRO PATTERN
TS-5-15	151271	02/01/2017	09:30	020217W1	02/02/2017	0.050	ND	
TC-4.5-14.5	151272	02/01/2017	11:00	020217W1	02/02/2017	0.050	0.074	15-55-53
TN-5.5-15.5	151273	02/01/2017	14:15	020217W1	02/02/2017	0.050	0.173	CO

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

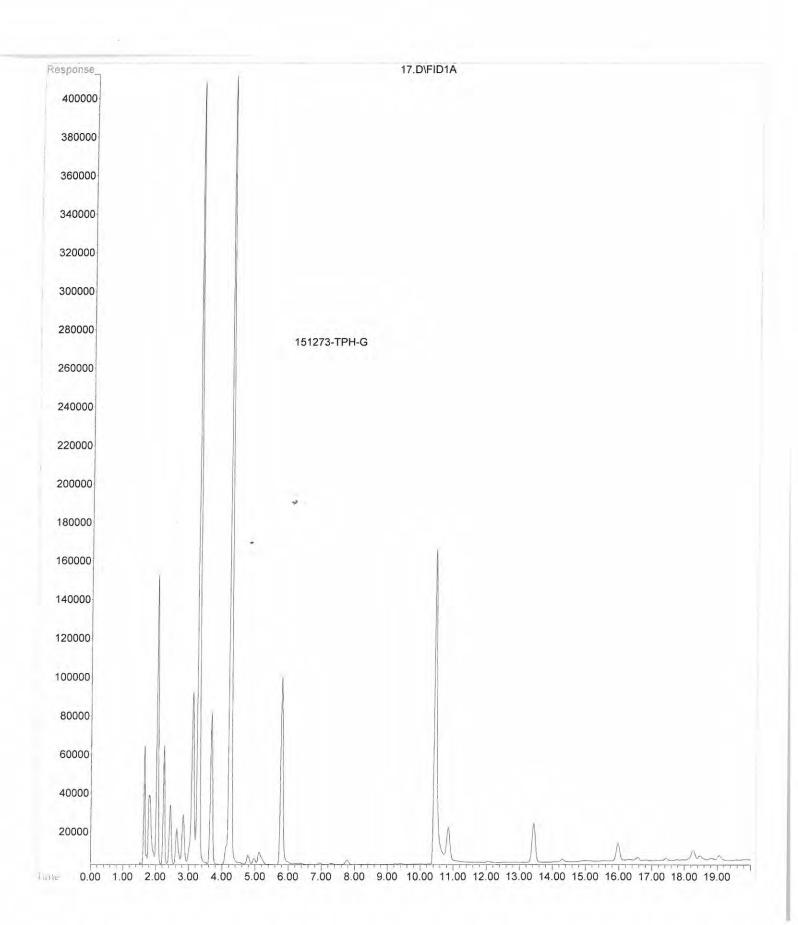
MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE



K PRIME, INC.

LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B020217W1

BATCH NO: 020217W1 SAMPLE TYPE: WATER

UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 02/02/2017

DATE ANALYZED: 02/02/2017

COMPOUND NAME	REPORTING LIMIT	SAMPLE
TPH-G	0.050	ND

SAMPLE ID: L020217W1 DUPLICATE ID: D020217W1

BATCH NO: 020217W1

SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 02/02/2017 DATE ANALYZED: 02/02/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS	
	ADDED	RESULT	RESULT	(%)	(%)	
TPH-G	0.500	ND	0.463	93	60-140	

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS	
	LIMIT	RESULT	RESULT	(%)	(%)	
TPH-G	0.050	0.463	0.439	5.5	±20	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

Erler	&	Ka	linows	ki.	Inc.

CHAIN OF CUSTODY RECORD

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PAGE (OF

Project Name: Horton St UST			Project No.: B20006.00 T7					ANA	ANALYSES REQUESTED				GeoTracker Global ID #: T10000007323		
Location: Emeryville, CA			Sampled By: G. Brunst & K. Mitchell			Method No.	EPA 8260	EPA 8015m	EBA 60						Revision:
Reporting: Electronic Format: EDF Hard Copy Format: PDF EPA Data Report Level: II Please report results to the following people: (1) Data Archive: labs@ekiconsult.com (し) ペイネル ドロシー・ (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@ekiconsult.com (4) Graeme Brunst: gbrunst@ekiconsult.com (5) Kel Mitchell: kmitchell@ekiconsult.com		K-Prime Laboratories, Inc.			015m TPH-g 260 VOCs & MTBE						Extr	EXPECTED T	(A, B, C, D, etc.) Date: By:		
						TPH-g & IPH-mo	T d & TDU			HOLD Extract and HOLD	TURNAROUND TIME	Remarks			
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Typ	e									
TC 5-15	5 5 5 161211 01.12	2000	Water	6 VOAs (HCI)		X	×						STD	*PER JESSICA	
TS-5-15	151271	2/1/17	0930	Water	1-L Amber		1	×						ST	PANGHERTY 2/2/17
TC-4.5-14.5	151272	2/1/11	1100	Water	6 VOAs (HCI)		X	X						STD	-
10 (10 1 10	171717	211/14	1100	2233	1-L Amber			1	X					570	
TAI-2 - 15 5	N-5.5-15.5 151273 2/1/17	1415	Water	6 VOAs (HCI)		X	X						870		
110 2.7-12.2	191719	41/17	1715		1-L Amber)	X					SID	
			NA/-	Water	6 VOAs (HCI)										
				11410	1-L Amber										
				Water	6 VOAs (HCI)										
	84			Water	1-L Amber										
				Water	6 VOAs (HCI)										
				water	1-L Amber										
Special Instructions:															
Relinquished by: (Signature/Affil	liation) EKI			Date & Time					Ē	Received by:	Signatu	re/Affi	liation	or Carrier/	
Relinquished by: (Signature/Affil	liation)	of VI	7)	Date & Time			1		É	Received by:	Signatu	re/Affi	liation	2	1/17 30
Relinquished by: (Signature/Affil	liation)		-	Date & Time					Ē	Received by: (Signatu	re/Affi	liation	1	

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574 707 527 7879 FAX:

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/7/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

MR. KEL MITCHELL MR. RYAN FORD

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100

Fax:

650-552-9012

Email:

labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com rford@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
TS-5-15	WATER	2/1/2017	9:30	151271
TC-4.5-14.5	WATER	2/1/2017	11:00	151272
TN-5.5-15.5	WATER	2/1/2017	14:15	151273

The above listed sample group was received on 2/1/2017 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	NO	ANALYZED		CONC	PATTERN
TS-5-15	151271	02/01/2017	9:30	020217W1	02/02/2017	0.050	ND	
TC-4.5-14.5	151272	02/01/2017	11:00	020217W1	02/02/2017	0.050	0.074	
TN-5.5-15.5	151273	02/01/2017	14:15	020217W1	02/02/2017	0.050	0.173	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY:

DATE: 62/07/17

SAMPLE ID: TS-5-15

LAB NO: 151271

DATE SAMPLED: 02/01/2017

TIME SAMPLED: 09:30

BATCH NO: 020117W1

DATE ANALYZED: 02/02/2017

K PRIME PROJECT: 9115 BAT CLIENT PROJECT: B20006.00 T7 DATE ANA

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	2.73
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	12 7 -18-4	0.500	ND ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND ND
XYLENE (M+P)	1330-20-7	0.500	ND ND
XYLENE (O)	1330-20-7	0.500	ND ND
STYRENE	100-42-5	0.500	ND ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND ND
BROMOBENZENE	108-86-1	0.500	ND ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: TS-5-15

LAB NO: 151271

DATE SAMPLED: 02/01/2017

TIME SAMPLED: 09:30

BATCH NO: 020117W1

DATE ANALYZED: 02/02/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	101
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	92

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE.

SAMPLE ID: TC-4.5-14.5 LAB NO: 151272 DATE SAMPLED: 02/01/2017 TIME SAMPLED: 11:00 BATCH NO: 020117W1

 K PRIME PROJECT:
 9115
 BATCH NO:
 020117W1

 CLIENT PROJECT:
 B20006.00 T7
 DATE ANALYZED:
 02/02/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: TC-4.5-14.5 LAB NO: 151272 DATE SAMPLED: 02/01/2017 TIME SAMPLED: 11:00 BATCH NO: 020117W1 DATE ANALYZED: 02/02/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER REFERENCE: EPA 5030/8260 UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	99
TOLUENE-D8	100
4-BROMOFLUOROBENZENE	90

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

SAMPLE ID: TN-5.5-15.5

LAB NO: 151273

DATE SAMPLED: 02/01/2017

TIME SAMPLED: 14:15

BATCH NO: 020117W1

DATE ANALYZED: 02/02/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND
CHLOROMETHANE	74-87-3	1.00	ND
VINYL CHLORIDE	75-01-4	1.00	45.9
BROMOMETHANE	74-83-9	1.00	ND
CHLOROETHANE	75-00-3	1.00	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND
1,1-DICHLOROETHENE	75-35-4	1.00	2.71
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND
METHYLENE CHLORIDE	75-09-2	5.00	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	89.6
1,1-DICHLOROETHANE	75-34-3	1.00	18.3
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	75.4
2,2-DICHLOROPROPANE	594-20-7	1.00	ND
BROMOCHLOROMETHANE	74-97-5	1.00	ND
CHLOROFORM	67-66-3	1.00	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND
1,1-DICHLOROPROPENE	563-58-6	1.00	ND
BENZENE	71-43-2	1.00	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND
TRICHLOROETHENE	79-01-6	1.00	14.4
1,2-DICHLOROPROPANE	78-87-5	1.00	ND
DIBROMOMETHANE	74-95-3	1.00	ND
BROMODICHLOROMETHANE	75-27-4	1.00	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND
TOLUENE	108-88-3	1.00	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND
TETRACHLOROETHENE	127-18-4	1.00	ND
1,3-DICHLOROPROPANE	142-28-9	1.00	ND
DIBROMOCHLOROMETHANE	124-48-1	1.00	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND
CHLOROBENZENE	108-90-7	1.00	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.00	ND
ETHYLBENZENE	100-41-4	1.00	ND
XYLENE (M+P)	1330-20-7	1.00	ND
XYLENE (O)	1330-20-7	1.00	ND
STYRENE	100-42-5	1.00	ND
BROMOFORM	75-25-2	1.00	ND ND
ISOPROPYLBENZENE	98-82-8	1.00	ND ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND
BROMOBENZENE	108-86-1	1.00	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.00	ND
N-PROPYLBENZENE	103-65-1	1.00	ND
2-CHLOROTOLUENE	95-49-8	1.00	ND

SAMPLE ID: TN-5.5-15.5 LAB NO: 151273 DATE SAMPLED: 02/01/2017 TIME SAMPLED: 14:15 BATCH NO: 020117W1

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

DATE ANALYZED: 02/02/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER **UNITS**: ug/L

COMPOUND NAME	CAS NO.	REPORTING	SAMPLE
		LIMIT	CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND
4-CHLOROTOLUENE	106-43-4	1.00	ND
TERT-BUTYLBENZENE	98-06-6	1.00	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND
SEC-BUTYLBENZENE	135-98-8	1.00	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND
4-ISOPROPYLTOLUENE	99-87-6	1.00	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND
N-BUTYLBENZENE	104-51-8	1.00	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.00	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND
HEXACHLOROBUTADIENE	87-68-3	2.00	ND
NAPHTHALENE	91-20-3	2.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	2.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	95
TOLUENE-D8	99
4-BROMOFLUOROBENZENE	90

NOTES

 ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

02107117

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DROSAMPLE TYPE:WATERREFERENCE: EPA 8015BUNITS:mg/L

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	DRO
	•	SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TS-5-15	151271	02/01/2017	020217W1	02/02/2017	02/02/2017	0.0543	0.335	
TC-4.5-14.5	151272	02/01/2017	020217W1	02/02/2017	02/02/2017	0.0510	0.818	AC
TN-5.5-15.5	151273	02/01/2017	020217W1	02/02/2017	02/02/2017	0.0534	0.109	

NOTES:

DRO Diesel Range Organics (C12-C23)
ND Not Detected at or above the stated MRL

NA Not Applicable or Available MRL Method Reporting Limit AD Typical Pattern for Diesel

AM Hydrocarbon response is in the C12-C22 range

AC Heavier hydrocarbons contributing to diesel range quantitation

AJ Heavier hydrocarbon than diesel AK Lighter hydrocarbon than diesel

AE Unknown hydrocarbon with a single peak
AN Unknown hydrocarbon with several peaks

APPROVED BY: _ ©

DATE: 02/07/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: HROSAMPLE TYPE:WATERREFERENCE: EPA 8015BUNITS:mg/L

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	HRO
F		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TS-5-15		02/01/2017						
TC-4.5-14.5	151272	02/01/2017	020217W1	02/02/2017	02/02/2017	0.0510	0.416	
TN-5.5-15.5	151273	02/01/2017	020217W1	02/02/2017	02/02/2017	0.0534	0.0950	

NOTES:

HRO Heavy Range Organics (C24-C34)
ND Not Detected at or above the stated MRL
NA Not Applicable or Available
MRL Method Reporting Limit

AE Unknown hydrocarbon with a single peak
AN Unknown hydrocarbon with several peaks

APPROVED BY:

DATE:

K PRIME, INC.

LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B020217W1

BATCH NO: 020217W1 SAMPLE TYPE: WATER

UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 02/02/2017

DATE ANALYZED: 02/02/2017

COMPOUND NAME	REPORTING	SAMPLE
	LIMIT	CONC
TPH-G	0.050	ND

SAMPLE ID: L020217W1 DUPLICATE ID: D020217W1 BATCH NO: 020217W1

SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 02/02/2017 **DATE ANALYZED:** 02/02/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.463	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.463	0.439	5.5	±20

NOTES

 $\ensuremath{\mathsf{ND}}$ - $\ensuremath{\mathsf{NOT}}$ DETECTED AT OR ABOVE THE STATED REPORTING LIMIT $\ensuremath{\mathsf{NA}}$ - $\ensuremath{\mathsf{NOT}}$ APPLICABLE

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND ND
CHLOROBENZENE	108-90-7	0.500	ND ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND ND
XYLENE (M+P)	1330-20-7	0.500	ND ND
XYLENE (O)	1330-20-7	0.500	ND ND
STYRENE	100-42-5	0.500	ND ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND ND
BROMOBENZENE	108-86-1	0.500	ND ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND ND
N-PROPYLBENZENE	103-65-1	0.500	ND ND
2-CHLOROTOLUENE	95-49-8	0.500	עע

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	99

NOTES:

 \mbox{ND} - \mbox{NOT} DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: B020117W1

SPIKE ID: L020117W1

DUPLICATE ID: D020117W1

BATCH NO: 020117W1 SAMPLE TYPE: WATER

UNITS: μg/L

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	10.0	ND	8.40	84	60-140
BENZENE	10.0	ND	8.81	88	60-140
TRICHLOROETHENE	10.0	ND	9.06	91	60-140
TOLUENE	10.0	ND	10.2	102	60-140
CHLOROBENZENE	10.0	ND	9.94	99	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	0.500	8.40	7.64	9.5	±20
BENZENE	0.500	8.81	9.02	2.4	±20
TRICHLOROETHENE	0.500	9.06	9.13	0.8	±20
TOLUENE	0.500	10.2	9.83	3.7	±20
CHLOROBENZENE	0.500	9.94	9.93	0.1	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC. BATCH ID: 020217W1 **LABORATORY QUALITY CONTROL REPORT DATE EXTRACTED:** 02/02/2017

DATE ANALYZED: 02/02/2017

METHOD: DRO SAMPLE TYPE: WATER

REFERENCE: EPA 8015B UNITS: mg/L

METHOD BLANK ID: B020217W1

 COMPOUND NAME
 REPORTING
 SAMPLE

 LIMIT
 CONC

 DRO
 0.0500
 ND

SAMPLE ID: L020217W1 DUPLICATE ID: D020217W1

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	2.50	ND	2.22	89	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	0.0500	2.22	2.10	5.4	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

Erler & Kalinowski, Inc. CHAIN OF CUSTODY R					STODY RECO	RD							P.A	AGEOF
CONSULTING ENGINEERS AND SCIENTISTS			1870 Ogden	Ogden Drive, Burlingame CA 94010			www.ekiconsult.com PHONE: 650-292-9099				1	FAX: 650-552-9012		
<u>Project Name:</u> Horton St UST			Project No.: B20006.00						ANAL	YSES REQUESTED)			acker Global ID #: 00007323
Location: Emeryville, CA Reporting:			Laboratory:	& K. Mitchell		Method No.	EPA 8260	EPA 8015m	FDA 8015n				EXPECTED	Revision: (A, B, C, D, etc.)
Electronic Format: EDF EPA Data Report Level: II Please report results to the fo		<u>' Format</u> : PDF	3621 We	Laboratorie estwind Bou osa, CA, USA	levard			n TPH-g			Extract a	H	CTED TUR	Date: By:
(1) Data Archive: labs@ekiconsult.co (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@e (4) Graeme Brunst: gbrunst@ekicon (5) Kel Mitchell: kmitchell@ekiconsu	om (b) RYAN Fekiconsult.com	029*	Santa Rosa, CA, USA 95403 (707) 527-7574		Post of the second seco		VOCs & MTBE				Extract and HOLD	1 1	TURNAROUND TIME	Remarks
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Ty	/pe								
TS-5-15	161221	01.1.	*000	Water	6 VOAs (HCI)		χĮ,	×				SI	(D)	*PER JESSICA
12-7-19	15/271	2/1/17	0930	vvater	1-L Amber)k	es.			S	D	PANGHERTY 2/2/17
TC-4.5-14.5	151272 2/1 (1-1-1 Nag Water 6 VOAs (HCI)		1100	6 VOAs (HCI)		人)	X				57	D	13/3	
16-4.0-11.9	151272	20117		/ Vate!	1-L Amber)	X				(0)	
	1/1000	, ,			6 VOAs (HCI)		XX	X.				1 3000	to	
TN-5.5-15.5	161719	2/1/17	1415	Water	1-L Amber)	X			8.	(D	
				14/-4	6 VOAs (HCI)		1							
				Water	1-L Amber									
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				Water	1-L Amber									
					6 VOAs (HCI)									
				Water	1-L Amber									
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CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403 Phone: 707 527 7574

FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/7/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST MR. KEL MITCHELL

MR. RYAN FORD

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

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jdaugherty@ekiconsult.com gbrunst@ekiconsult.com

kmitchell@ekiconsult.com rford@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D. RAKM 21718017 Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID

TYPE

DATE

TIME

KPI LAB #

TB20170201

WATER

2/1/2017

13:30

151274

The above listed sample group was received on 2/1/2017 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT:

9115

CLIENT PROJECT:

B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

SAMPLE TYPE: WATER

UNITS: mg/L

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	NO	ANALYZED		CONC	PATTERN
TB20170201	151274	02/01/2017	13:30	020217W1	02/06/2017	0.050	ND	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY

DATE: 02/07/1

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7 SAMPLE ID: TB20170201 LAB NO: 151274 DATE SAMPLED: 02/01/2017 TIME SAMPLED: 13:30 BATCH NO: 020117W1

DATE ANALYZED: 02/02/2017

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER REFERENCE: EPA 5030/8260 UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1.1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1.1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2.2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1.1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1.2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90 -7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.

SAMPLE ID: TB20170201 LAB NO: 151274 DATE SAMPLED: 02/01/2017 TIME SAMPLED: 13:30 BATCH NO: 020117W1

DATE ANALYZED: 02/02/2017

UNITS: ug/L

ND

ND

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

SAMPLE TYPE: WATER

1.00

0.500

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

1,2,3-TRICHLOROBENZENE

METHYL TERT-BUTYL ETHER (MTBE)

REPORTING **SAMPLE** CAS NO. COMPOUND NAME CONC LIMIT 108-67-8 0.500 ND 1,3,5-TRIMETHYLBENZENE ND 106-43-4 0.500 4-CHLOROTOLUENE 98-06-6 ND 0.500 TERT-BUTYLBENZENE ND 1,2,4-TRIMETHYLBENZENE 95-63-6 0.500 0.500 ND 135-98-8 SEC-BUTYLBENZENE 0.500 ND 541-73-1 1.3-DICHLOROBENZENE ND 0.500 4-ISOPROPYLTOLUENE 99-87-6 106-46-7 0.500 ND 1,4-DICHLOROBENZENE 104-51-8 0.500 ND N-BUTYLBENZENE $\overline{\mathsf{ND}}$ 95-50-1 0.500 1,2-DICHLOROBENZENE 96-12-8 0.500 ND 1,2-DIBROMO-3-CHLOROPROPANE 1,2,4-TRICHLOROBENZENE 120-82-1 1.00 ND 87-68-3 1.00 ND HEXACHLOROBUTADIENE 91-20-3 1.00 ND NAPHTHALENE

87-61-6

1634-04-4

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	105
TOLUENE-D8	108
4-BROMOELUOROBENZENE	97

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: ~

DATE:

K PRIME, INC.

LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B020217W1

BATCH NO: 020217W1 SAMPLE TYPE: WATER

UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 02/02/2017

DATE ANALYZED: 02/02/2017

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.050	ND

SAMPLE ID: L020217W1
DUPLICATE ID: D020217W1
BATCH NO: 020217W1
SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 02/02/2017
DATE ANALYZED: 02/02/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.463	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.463	0.439	5.5	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC		
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND		
CHLOROMETHANE	74-87-3	0.500	ND		
VINYL CHLORIDE	75-01-4	0.500	ND		
BROMOMETHANE	74-83-9	0.500	ND		
CHLOROETHANE	75-00-3	0.500	ND		
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND		
1,1-DICHLOROETHENE	75-35-4	0.500	ND		
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND		
METHYLENE CHLORIDE	75-09-2	2.50	ND		
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND		
1,1-DICHLOROETHANE	75-34-3	0.500	ND		
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND		
2,2-DICHLOROPROPANE	594-20-7	0.500	ND		
BROMOCHLOROMETHANE	74-97-5	0.500	ND		
CHLOROFORM	67-66-3	0.500	ND		
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND		
CARBON TETRACHLORIDE	56-23-5	0.500	ND		
1,1-DICHLOROPROPENE	563-58-6	0.500	ND		
BENZENE	71-43-2	0.500	ND		
1,2-DICHLOROETHANE	107-06-2	0.500	ND		
TRICHLOROETHENE	79-01-6	0.500	ND		
1,2-DICHLOROPROPANE	78-87-5	0.500	ND		
DIBROMOMETHANE	74-95-3	0.500	ND		
BROMODICHLOROMETHANE	75-27-4	0.500	ND		
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND		
TOLUENE	108-88-3	0.500	ND		
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND		
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND		
TETRACHLOROETHENE	127-18-4	0.500	ND		
1,3-DICHLOROPROPANE	142-28-9	0.500	ND		
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND		
1,2-DIBROMOETHANE	106-93-4	0.500	ND		
CHLOROBENZENE	108-90-7	0.500	ND		
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND		
ETHYLBENZENE	100-41-4	0.500	ND		
XYLENE (M+P)	1330-20 - 7	0.500	ND		
XYLENE (O)	1330-20-7	0.500	ND		
STYRENE	100-42-5	0.500	ND		
BROMOFORM	75-25-2	0.500	ND		
ISOPROPYLBENZENE	98-82-8	0.500	ND		
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND		
BROMOBENZENE	108-86-1	0.500	ND		
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND		
N-PROPYLBENZENE	103-65-1	0.500	ND		
2-CHLOROTOLUENE	95-49-8	0.500	ND		

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDSSAMPLE TYPE: WATERREFERENCE: EPA 5030/8260UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	99

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B020117W1 SPIKE ID: L020117W1 DUPLICATE ID: D020117W1 BATCH NO: 020117W1

SAMPLE TYPE: WATER

UNITS: μg/L

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1.1 DICHLOROETHENE	10.0	ND	8.40	84	60-140
BENZENE	10.0	ND	8.81	88	60-140
TRICHLOROETHENE	10.0	ND	9.06	91	60-140
TOLUENE	10.0	ND	10.2	102	60-140
CHLOROBENZENE	10.0	ND	9.94	99	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	0.500	8.40	7.64	9.5	±20
BENZENE	0.500	8.81	9.02	2.4	±20
TRICHLOROETHENE	0.500	9.06	9.13	8.0	±20
TOLUENE	0.500	10.2	9.83	3.7	±20
CHLOROBENZENE	0.500	9.94	9.93	0.1	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

Inc.
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Kalin
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CONSULTING ENGINEERS AND SCIENTISTS

CHAIN OF CUSTODY RECORD

1870 Ogden Drive, Burlingame CA 94010 www.ekiconsult.com

FAX: 650-552-9012

PHONE: 650-292-9099

DANGERATY 2221 * PERETESSICA (A, B, C, D, etc.) Remarks GeoTracker Global ID #: Revision: T10000007323 Received by: (Signature/Affiliation or Carrier/Air Bill No. Date: **EXPECTED TURNAROUND TIME** HOLD Received by: (Signature/Affiliation) Received by: (Signature/Affiliation) Extract and HOLD ANALYSES REQUESTED EPA 8015m TPH-d & TPH-mo EPA 8015m TPH-g × EPA 8260 **VOCs & MTBE** 10:1 Analyte / Group いっして Method No. Container Count & Type 6 VOAs (HCI) 1-L Amber 1-L Amber 1-L Amber 1-L Amber 1-L Amber 1-L Amber Santa Rosa, CA, USA 95403 3621 Westwind Boulevard K-Prime Laboratories, Inc. Date & Time Date & Time Date & Time G. Brunst & K. Mitchell Water Water Water Water Matrix Water Water (707) 527-7574 B20006.00 T7 Sampled By: Laboratory: Project No.: 330 Time Hard Copy Format: PDF 191274 2117 Date Please report results to the following people: (1) Data Archive: labs@ekiconsult.com (6)PayArv Folect Lab Sample No. (3) Jessica Daugherty: jdaugherty@ekiconsult.com (4) Graeme Brunst: gbrunst@ekiconsult.com Relinquished by: (Signature/Affiliation) (5) Kei Mitchell: kmitchell@ekiconsult.com Relinquished by: (Signature/Affiliation) Relinquished by: (Signature/Affiliation) (2) Joy Su: jsu@ekiconsult.com T&20H020) EPA Data Report Level: II Electronic Format: EDF Field Sample ID Special Instructions: Emeryville, CA **Horton St UST** Project Name: Reporting: Location:

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

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CONSULTING ENGINEERS AN	ID SCIENTISTS		1870 Ogden D	rive, Burling	game CA 94 0 10	ww	w.e	kico	nsult.	com PHONE: 650	-292-9099		***************************************	FAX: 650-552-9012
<u>Project Name:</u> Horton St UST			Project No.: 820006.00 T7						ANALYSES REQUESTED			GeoTracker Global ID #: T10000007323		
Emeryville, CA Reporting: Electronic Format: EDF EPA Data Report Level: II Please report results to the fo (1) Data Archive: labs@ekiconsult.com (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@e (4) Graeme Brunst: gbrunst@ekicons (5) Kel Mitchell: kmitchell@ekiconsult.	Howing people: om ekiconsult.com sult.com	Format: PDF	Laboratory: K-Prime L 3621 Wes	aboratories stwind Bould ia, CA, USA -7574	evard	Method No. Analyte / Group	8260	B-Hel	EPA 8015m TPH-d & TPH-mo		Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Ty	ype						alocitetta fina		
TB20170201	151274	2/1/17	330	Water	⊋ ∮VOAs (HCI) 1-L Amber			X 016	5				stb	
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					1-L Amber		-							
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CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574 FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/9/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

MR. KEL MITCHELL MR. RYAN FORD

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100

Fax:

650-552-9012

Email:

labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com rford@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
TSX02-5-15	WATER	2/2/2017	13:00	151322
TSX01-5.5-15.5	WATER	2/2/2017	13:30	151323
TSX01X-5.5-15.5	WATER	2/2/2017	14:15	151324

The above listed sample group was received on on the chain of custody document.

2/2/2017 and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT:

9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

SAMPLE TYPE: WATER

UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH NO	DATE ANALYZED	MRL	SAMPLE	GRO PATTERN
TSX02-5-15	151322	02/02/2017	13:00	020317W1	02/06/2017	0.050	ND	
TSX01-5.5-15.5	151323	02/02/2017	13:30	020317W1	02/06/2017	0.050	ND	
TSX01X-5.5-15.5	151324	02/02/2017	14:15	020317W1	02/06/2017	0.050	ND	1

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY

DATE: 02/09/

SAMPLE ID: TSX02-5-15 LAB NO: 151322

DATE SAMPLED: 02/02/2017 TIME SAMPLED: 13:00

BATCH NO: 020217W1

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7 **DATE ANALYZED: 02/06/2017**

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: WATER

REFERENCE: EPA 5030/8260

UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	0.510
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

SAMPLE ID: TSX02-5-15 LAB NO: 151322

DATE SAMPLED: 02/02/2017

TIME SAMPLED: 13:00

BATCH NO: 020217W1 **DATE ANALYZED:** 02/06/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	101
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	101

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:_ &

DATE:

SAMPLE ID: TSX01-5.5-15.5

LAB NO: 151323 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 13:30

BATCH NO: 020217W1 DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC	
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	
CHLOROMETHANE	74-87-3	0.500	ND	
VINYL CHLORIDE	75-01-4	0.500	ND	
BROMOMETHANE	74-83-9	0.500	ND	
CHLOROETHANE	75-00-3	0.500	ND	
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	
1,1-DICHLOROETHENE	75-35-4	0.500	ND	
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	
METHYLENE CHLORIDE	75-09-2	2.50	ND	
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	0.810	
1,1-DICHLOROETHANE	75-34-3	0.500	ND	
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	4.50	
2,2-DICHLOROPROPANE	594-20-7	0.500	ND	
BROMOCHLOROMETHANE	74-97-5	0.500	ND	
CHLOROFORM	67-66-3	0.500	ND	
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	
CARBON TETRACHLORIDE	56-23-5	0.500	ND	
1,1-DICHLOROPROPENE	563-58-6	0.500	ND	
BENZENE	71-43-2	0.500	ND	
1,2-DICHLOROETHANE	107-06-2	0.500	0.830	
TRICHLOROETHENE	79-01-6	0.500	2.24	
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	
DIBROMOMETHANE	74-95-3	0.500	ND	
BROMODICHLOROMETHANE	75-27-4	0.500	ND	
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	
TOLUENE	108-88-3	0.500	ND	
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	
TETRACHLOROETHENE	127-18-4	0.500	ND	
1,3-DICHLOROPROPANE	142-28-9	0.500	ND	
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND	
1,2-DIBROMOETHANE	106-93-4	0.500	ND	
CHLOROBENZENE	108-90-7	0.500	ND	
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND	
ETHYLBENZENE	100-41-4	0.500	ND	
XYLENE (M+P)	1330-20-7	0.500	ND	
XYLENE (O)	1330-20-7	0.500	ND	
STYRENE	100-42-5	0.500	ND	
BROMOFORM	75-25-2	0.500	ND	
ISOPROPYLBENZENE	98-82-8	0.500	ND	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	
BROMOBENZENE	108-86-1	0.500	ND	
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND	
N-PROPYLBENZENE	103-65-1	0.500	ND	
2-CHLOROTOLUENE	95-49-8	0.500	ND	

SAMPLE ID: TSX01-5.5-15.5

LAB NO: 151323 **DATE SAMPLED: 02/02/2017**

TIME SAMPLED: 13:30

BATCH NO: 020217W1 **DATE ANALYZED: 02/06/2017**

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER

UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC	
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	
4-CHLOROTOLUENE	106-43-4	0.500	ND	
TERT-BUTYLBENZENE	98-06-6	0.500	ND	
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	
SEC-BUTYLBENZENE	135-98-8	0.500	ND	
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND	
1.4-DICHLOROBENZENE	106-46-7	0.500	ND	
N-BUTYLBENZENE	104-51-8	0.500	ND	
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND	
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	
NAPHTHALENE	91-20-3	1.00	ND	
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND	
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND	

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	100
TOLUENE-D8	103
4-BROMOFLUOROBENZENE	95

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

K PRIME, INC.

SAMPLE ID: TSX01X-5.5-15.5

LAB NO: 151324 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 14:15

BATCH NO: 020217W1 DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC	
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	
CHLOROMETHANE	74-87-3	0.500	ND	
VINYL CHLORIDE	75-01-4	0.500	ND	
BROMOMETHANE	74-83-9	0.500	ND	
CHLOROETHANE	75-00-3	0.500	ND	
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	
1,1-DICHLOROETHENE	75-35-4	0.500	ND	
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	
METHYLENE CHLORIDE	75-09-2	2.50	ND	
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	
1,1-DICHLOROETHANE	75-34-3	0.500	ND	
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	
2,2-DICHLOROPROPANE	594-20-7	0.500	ND	
BROMOCHLOROMETHANE	74-97-5	0.500	ND	
CHLOROFORM	67-66-3	0.500	ND	
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	
CARBON TETRACHLORIDE	56-23-5	0.500	ND	
1.1-DICHLOROPROPENE	563-58-6	0.500	ND	
BENZENE	71-43-2	0.500	ND	
1,2-DICHLOROETHANE	107-06-2	0.500	ND	
TRICHLOROETHENE	79-01-6	0.500	ND	
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	
DIBROMOMETHANE	74-95-3	0.500	ND	
BROMODICHLOROMETHANE	75-27-4	0.500	ND	
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	
TOLUENE	108-88-3	0.500	ND	
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	
TETRACHLOROETHENE	127-18-4	0.500	ND	
1,3-DICHLOROPROPANE	142-28-9	0.500	ND	
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND	
1,2-DIBROMOETHANE	106-93-4	0.500	ND	
CHLOROBENZENE	108-90-7	0.500	ND	
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND	
ETHYLBENZENE	100-41-4	0.500	ND	
XYLENE (M+P)	1330-20-7	0.500	ND	
XYLENE (O)	1330-20-7	0.500	ND	
STYRENE	100-42-5	0.500	ND	
BROMOFORM	75-25-2	0.500	ND	
ISOPROPYLBENZENE	98-82-8	0.500	ND	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	
BROMOBENZENE	108-86-1	0.500	ND	
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND	
N-PROPYLBENZENE	103-65-1	0.500	ND	
2-CHLOROTOLUENE	95-49-8	0.500	ND	

SAMPLE ID: TSX01X-5.5-15.5

LAB NO: 151324 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 14:15

BATCH NO: 020217W1 DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER

UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND .
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	105
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	94

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

02/00115

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO

SAMPLE TYPE: WATER

REFERENCE: EPA 8015B

UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	DRO PATTERN
TSX02-5-15	151322	02/02/2017	020217W1	02/03/2017	02/03/2017	0.0526	0.175	
TSX01-5.5-15.5	151323	02/02/2017	020217W1	02/03/2017	02/03/2017	0.0510	0.110	
TSX01X-5.5-15.5	151324	02/02/2017	020217W1	02/03/2017	02/03/2017	0.0515	0.284	

NOTES:	
DRO	Diesel Range Organics (C12-C23)
ND	Not Detected at or above the stated MRL
NA	Not Applicable or Available
MRL	Method Reporting Limit
AD	Typical Pattern for Diesel
AM	Hydrocarbon response is in the C12-C22 range
AC	Heavier hydrocarbons contributing to diesel range quantitation
AJ	Heavier hydrocarbon than diesel
AK	Lighter hydrocarbon than diesel
AE	Unknown hydrocarbon with a single peak
AN	Unknown hydrocarbon with several peaks

APPROVED BY: 02/091/2

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: HRO

REFERENCE: EPA 8015B

SAMPLE TYPE: WATER

UNITS:

mg/L

SAMPLE ID	LAB NO.	DATE	BATCH	EXTRACT	DATE	MRL	SAMPLE	HRO
		SAMPLED	ID	DATE	ANALYZED		CONC	PATTERN
TSX02-5-15	151322	02/02/2017	020217W1	02/03/2017	02/03/2017	0.0526	0.108	60 . 1
TSX01-5.5-15.5	151323	02/02/2017	020217W1	02/03/2017	02/03/2017	0.0510	0.0880	
TSX01X-5.5-15.5	151324	02/02/2017	020217W1	02/03/2017	02/03/2017	0.0515	0.127	

NOTES:

Heavy Range Organics (C24-C34) **HRO**

Not Detected at or above the stated MRL ND

Not Applicable or Available NA

MRL Method Reporting Limit

AE Unknown hydrocarbon with a single peak

AN Unknown hydrocarbon with several peaks

APPROVED BY:

K PRIME, INC.

LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B020317W1

BATCH NO: 020317W1

SAMPLE TYPE: WATER

UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 02/03/2017

DATE ANALYZED: 02/03/2017

COMPOUND NAME	REPORTING LIMIT	SAMPLE
TPH-G	0.050	ND

SAMPLE ID: L020317W1

DUPLICATE ID: D020317W1

BATCH NO: 020317W1

SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 02/03/2017

DATE ANALYZED: 02/03/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.531	106	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.531	0.450	16.6	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

METHOD BLANK ID: B020217W1 BATCH NO: 020217W1 **DATE ANALYZED: 02/02/2017**

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: WATER UNITS: ug/L REFERENCE: EPA 5030/8260

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC	
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	
CHLOROMETHANE	74-87-3	0.500	ND	
VINYL CHLORIDE	75-01-4	0.500	ND	
BROMOMETHANE	74-83-9	0.500	ND	
CHLOROETHANE	75-00-3	0.500	ND	
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	
1,1-DICHLOROETHENE	75-35-4	0.500	ND	
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	
METHYLENE CHLORIDE	75-09-2	2.50	ND	
TRANS-1.2-DICHLOROETHENE	156-60-5	0.500	ND	
1,1-DICHLOROETHANE	75-34-3	0.500	ND	
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	
2,2-DICHLOROPROPANE	594-20-7	0.500	ND	
BROMOCHLOROMETHANE	74-97-5	0.500	ND	
CHLOROFORM	67-66-3	0.500	ND	
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	
CARBON TETRACHLORIDE	56-23-5	0.500	ND	
1,1-DICHLOROPROPENE	563-58-6	0.500	ND	
BENZENE	71-43-2	0.500	ND	
1,2-DICHLOROETHANE	107-06-2	0.500	ND	
TRICHLOROETHENE	79-01-6	0.500	ND	
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	
DIBROMOMETHANE	74-95-3	0.500	ND	
BROMODICHLOROMETHANE	75-27-4	0.500	ND	
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	
TOLUENE	108-88-3	0.500	ND	
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	
TETRACHLOROETHENE	127-18-4	0.500	ND	
1,3-DICHLOROPROPANE	142-28-9	0.500	ND	
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND	
1,2-DIBROMOETHANE	106-93-4	0.500	ND	
CHLOROBENZENE	108-90-7	0.500	ND	
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND	
THYLBENZENE	100-41-4	0.500	ND	
XYLENE (M+P)	1330-20-7	0.500	ND	
KYLENE (O)	1330-20-7	0.500	ND	
STYRENE	100-42-5	0.500	ND	
BROMOFORM	75-25-2	0.500	ND	
SOPROPYLBENZENE	98-82-8	0.500	ND	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	
BROMOBENZENE	108-86-1	0.500	ND	
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND	
N-PROPYLBENZENE	103-65-1	0.500	ND	
2-CHLOROTOLUENE	95-49-8	0.500	ND	

METHOD BLANK ID: B020217W1

BATCH NO: 020217W1

DATE ANALYZED: 02/02/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	111
TOLUENE-D8	96
4-BROMOFLUOROBENZENE	94

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B020217W1 SPIKE ID: L020217W1 DUPLICATE ID: D020217W1

BATCH NO: 020217W1

SAMPLE TYPE: WATER

UNITS: µg/L

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
COM CONDINA	ADDED	RESULT	RESULT	(%)	(%)
1.1 DICHLOROETHENE	10.0	ND	7.20	72	60-140
BENZENE	10.0	ND	9.62	96	60-140
TRICHLOROETHENE	10.0	ND	9.01	90	60-140
TOLUENE	10.0	ND	10.2	102	60-140
CHLOROBENZENE	10.0	ND	10.3	103	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
00 00	LIMIT	RESULT	RESULT	(%)	(%)
1.1 DICHLOROETHENE	0.500	7.20	7.29	1.2	±20
BENZENE	0.500	9.62	9.31	3.3	±20
TRICHLOROETHENE	0.500	9.01	9.08	0.8	±20
TOLUENE	0.500	10.2	9.80	3.5	±20
CHLOROBENZENE	0.500	10.3	10.1	1.8	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

LABORATORY QUALITY CONTROL REPORT

BATCH ID: 020217W1

DATE EXTRACTED: 02/02/2017

DATE ANALYZED: 02/02/2017

METHOD: DRO

REFERENCE: EPA 8015B

SAMPLE TYPE:

WATER

UNITS:

mg/L

METHOD BLANK ID: B020217W1

COMPOUND NAME

DRO

REPORTING

SAMPLE

LIMIT

0.0500

CONC ND

SAMPLE ID: L020217W1

DUPLICATE ID: D020217W1

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
DRO	2.50	ND	2.22	89	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
DRO	0.0500	2.22	2.10	5.4	±20

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE	OF)

CONSULTING ENGINEERS A	ND SCIENTISTS		1870 Ogden I	Drive, Burlir	ngame CA 94010	ww	w.eki	consu	t.com PHONE: 650-7	292-9099		FAX: 650-552-9012
Project Name: Horton St UST			Project No.: B20006.00						ANALYSES REQUESTED		The second second	acker Global ID #:
Location: Emeryville, CA Reporting:			Sampled By: G. Brunst & K. Mitchell Laboratory:		Method No.	EPA 8260	EPA 8015m				Revision:	
Electronic Format: EDF EPA Data Report Level: II	Electronic Format: EDF Hard Copy Format: PDF EPA Data Report Level: II		K-Prime Laboratories, Inc 3621 Westwind Boulevar Santa Rosa, CA, USA 954		levard] =			Extrac	PECTED TO	(A, B, C, D, etc.) Date: By:
Please report results to the fo (1) Data Archive: labs@ekiconsult.co (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@e (4) Graeme Brunst: gbrunst@ekicon (5) Kel Mitchel: kmitchel @ekiconsu	om ekiconsult.com sult.com		(707) 527		95403	Analyte / Group	VOCs & MTBE	-d & TPH-mo		HOLD Extract and HOLD	EXPECTED TURNAROUND TIME	Daniel in
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Ty	pe					m	Remarks
TCV x = ==	Ician	250617	1200	Water	6 VOAs (HCI)		XX				(TD	
12/02-2-18	101377	216011	1300		1-L Amber			X			1	
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1-7	17/373		10.30		1-L Amber			×				
TSXXIX-SEFICE	151224	A	1415	Water	6 VOAs (HCI)		X X					
	131321		1110		1-L Amber			X			4	
				Water	6 VOAs (HCI)		4	+				
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		V								, . minution)		
						_						

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574 FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/9/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

MR. KEL MITCHELL MR. RYAN FORD

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

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jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com rford@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

TB20170202

on the chain of custody document.

TYPE WATER **DATE** 2/2/2017

TIME 14:30 KPI LAB # 151325

The above listed sample group was received on

2/2/2017

and tested as requested

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT:

9115

CLIENT PROJECT:

B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS

SAMPLE TYPE: WATER

UNITS: mg/L

REFERENCE: EPA 8015B

LAB NO.

DATE

BATCH TIME

DATE

MRL SAMPLE GRO

SAMPLED

ANALYZED NO

CONC

TB20170202

SAMPLE ID

151325 02/02/2017 14:30

020217W1 | 02/06/2017 | 0.050

ND

PATTERN

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

SAMPLED

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY:

DATE:

SAMPLE ID: TB20170202 LAB NO: 151325

DATE SAMPLED: 02/02/2017

TIME SAMPLED: 14:30

BATCH NO: 020117W1

DATE ANALYZED: 02/03/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER

UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC	
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	
CHLOROMETHANE	74-87-3	0.500	ND	
VINYL CHLORIDE	75-01-4	0.500	ND	
BROMOMETHANE	74-83-9	0.500	ND	
CHLOROETHANE	75-00-3	0.500	ND	
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	
1,1-DICHLOROETHENE	75-35-4	0.500	ND	
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	
METHYLENE CHLORIDE	75-09-2	2.50	ND	
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	
1,1-DICHLOROETHANE	75-34-3	0.500	ND	
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	
2,2-DICHLOROPROPANE	594-20-7	0.500	ND	
BROMOCHLOROMETHANE	74-97-5	0.500	ND	
CHLOROFORM	67-66-3	0.500	ND	
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	
CARBON TETRACHLORIDE	56-23-5	0.500	ND	
1,1-DICHLOROPROPENE	563-58-6	0.500	ND	
BENZENE	71-43-2	0.500	ND	
1,2-DICHLOROETHANE	107-06-2	0.500	ND	
TRICHLOROETHENE	79-01-6	0.500	ND	
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	
DIBROMOMETHANE	74-95-3	0.500	ND	
BROMODICHLOROMETHANE	75-27-4	0.500	ND	
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	
TOLUENE	108-88-3	0.500	ND	
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	
TETRACHLOROETHENE	127-18-4	0.500	ND	
1,3-DICHLOROPROPANE	142-28-9	0.500	ND	
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND	
1,2-DIBROMOETHANE	106-93-4	0.500	ND	
CHLOROBENZENE	108-90-7	0.500	ND	
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND	
ETHYLBENZENE	100-41-4	0.500	ND	
XYLENE (M+P)	1330-20-7	0.500	ND	
XYLENE (O)	1330-20-7	0.500	ND	
STYRENE	100-42-5	0.500	ND	
BROMOFORM	75-25-2	0.500	ND	
SOPROPYLBENZENE	98-82-8	0.500	ND	
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	
BROMOBENZENE	108-86-1	0.500	ND	
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND	
N-PROPYLBENZENE	103-65-1	0.500	ND	
2-CHLOROTOLUENE	95-49-8	0.500	ND	
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	

SAMPLE ID: TB20170202 LAB NO: 151325

DATE SAMPLED: 02/02/2017

TIME SAMPLED: 14:30

BATCH NO: 020117W1

K PRIME PROJECT: 9115 **DATE ANALYZED: 02/03/2017** CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: WATER

REFERENCE: EPA 5030/8260

UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	103
TOLUENE-D8	106
4-BROMOFLUOROBENZENE	88

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B020217W1

BATCH NO: 020217W1

SAMPLE TYPE: WATER

UNITS: mg/L

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

DATE EXTRACTED: 02/02/2017

DATE ANALYZED: 02/02/2017

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.050	ND

SAMPLE ID: L020217W1

DUPLICATE ID: D020217W1

BATCH NO: 020217W1 SAMPLE TYPE: WATER

UNITS: mg/L

DATE EXTRACTED: 02/02/2017

DATE ANALYZED: 02/02/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	0.500	ND	0.463	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	0.050	0.463	0.439	5.5	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER UNITS: ug/L

CAS NO. REPORTING SAMPLE COMPOUND NAME CONC LIMIT 75-71-8 0.500 ND DICHLORODIFLUOROMETHANE 0.500 ND 74-87-3 CHLOROMETHANE 75-01-4 0.500 ND VINYL CHLORIDE 74-83-9 0.500 ND BROMOMETHANE ND CHLOROETHANE 75-00-3 0.500 75-69-4 0.500 ND TRICHLOROFLUOROMETHANE 75-35-4 0.500 ND 1,1-DICHLOROETHENE ND 76-13-1 0.500 TRICHLOROTRIFLUOROETHANE 2.50 ND METHYLENE CHLORIDE 75-09-2 156-60-5 0.500 ND TRANS-1,2-DICHLOROETHENE ND 1,1-DICHLOROETHANE 75-34-3 0.500 156-59-2 0.500 ND CIS-1,2-DICHLOROETHENE 0.500 ND 594-20-7 2.2-DICHLOROPROPANE BROMOCHLOROMETHANE 74-97-5 0.500 ND 0.500 ND 67-66-3 CHLOROFORM 71-55-6 0.500 ND 1,1,1-TRICHLOROETHANE 0.500 ND 56-23-5 CARBON TETRACHLORIDE ND 1,1-DICHLOROPROPENE 563-58-6 0.500 0.500 ND BENZENE 71-43-2 107-06-2 0.500 ND 1,2-DICHLOROETHANE 79-01-6 0.500 ND TRICHLOROETHENE ND 1.2-DICHLOROPROPANE 78-87-5 0.500 74-95-3 0.500 ND DIBROMOMETHANE BROMODICHLOROMETHANE 75-27-4 0.500 ND 0.500 TRANS-1,3-DICHLOROPROPENE 10061-02-6 ND TOLUENE 108-88-3 0.500 ND CIS-1,3-DICHLOROPROPENE 10061-01-5 0.500 ND 1,1,2-TRICHLOROETHANE 79-00-5 0.500 ND TETRACHLOROETHENE 127-18-4 0.500 ND ND 1,3-DICHLOROPROPANE 142-28-9 0.500 DIBROMOCHLOROMETHANE 124-48-1 0.500 ND 1,2-DIBROMOETHANE 106-93-4 0.500 ND 108-90-7 0.500 ND CHLOROBENZENE 0.500 1,1,1,2-TETRACHLOROETHANE 630-20-6 ND 0.500 ND **ETHYLBENZENE** 100-41-4 ND 1330-20-7 0.500 XYLENE (M+P) 0.500 ND 1330-20-7 XYLENE (O) 100-42-5 0.500 ND STYRENE 75-25-2 ND 0.500 **BROMOFORM** ND **ISOPROPYLBENZENE** 98-82-8 0.500 79-34-5 0.500 ND 1,1,2,2-TETRACHLOROETHANE ND 108-86-1 0.500 BROMOBENZENE 0.500 ND 1,2,3-TRICHLOROPROPANE 96-18-4 0.500 ND 103-65-1 N-PROPYLBENZENE 95-49-8 0.500 ND 2-CHLOROTOLUENE 0.500 ND 1,3,5-TRIMETHYLBENZENE 108-67-8

METHOD BLANK ID: B020117W1 BATCH NO: 020117W1 DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER

UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.500	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	99

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

SAMPLE ID: B020117W1 SPIKE ID: L020117W1 DUPLICATE ID: D020117W1

BATCH NO: 020117W1

SAMPLE TYPE: WATER UNITS: µg/L

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5030/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	10.0	ND	8.40	84	60-140
BENZENE	10.0	ND	8.81	88	60-140
TRICHLOROETHENE	10.0	ND	9.06	91	60-140
TOLUENE	10.0	ND	10.2	102	60-140
CHLOROBENZENE	10.0	ND	9.94	99	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	0.500	8.40	7.64	9.5	±20
BENZENE	0.500	8.81	9.02	2.4	±20
TRICHLOROETHENE	0.500	9.06	9.13	0.8	±20
TOLUENE	0.500	10.2	9.83	3.7	±20
CHLOROBENZENE	0.500	9.94	9.93	0.1	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

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Company of the Company of the		BEER BEER BEER BEER	# H

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS Project Name:			+o,o ogden	Drive, Burn	ngame CA 94010	W	ww.ek	consult.com	PHONE: 650-29	2-9099	WITH THE REAL PROPERTY.	FAX: 650-552-9012
Horton St UST			Project No. B20006.0			T	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ANA	LYSES REQUESTED			acker Global ID #:
Location: Emeryville, CA			Sampled By	Ľ:		3	19 5	3 4 1		TT	T1000	00007323
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Electronic Format: EDF Hard Copy Format: PDF EPA Data Report Level: II Please report results to the following people: (1) Data Archive: labs@ekiconsult.com		R-Prime Laboratories, Inc.			n TPH-d & TPH-g VOCs & Analyte /				EXPECTED TURNAROUND TIME	(A, B, C, D, etc.) Date: 2/3/17 B		
[2] Joy Sur su@ekiconsult.com (3) Jessica Daugherty: jdaugherty (4) Graeme Brunst: gbrunst@ekic (5) Kel Mitchell: km/tchell@ekico	consult.com		Any other in contract of the c			Group	ATBE	TPH-mo		Extract and HOLD	AROUND T	
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & T	ype		brentrenii eng			M.	Remarks
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Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

PAGE	OF]

CONSULTING ENGINEERS	AND SCIENTISTS		1870 Ogden	Drive, Burlir	ngame CA 94010	wv	/w.eki	consul	lt.com PHONE: 650-2	92-909	9		FAX: 650-552-9012
Project Name: Horton St UST			Project No.: B20006.0			Γ			ANALYSES REQUESTED				acker Global ID #:
Location: Emeryville, CA Reporting:	Emeryville, CA porting:			Sampled By: G. Brunst & K. Mitche Laboratory:		Method No.	EPA 8260	EPA 8015m					Revision:(A, B, C, D, etc.)
Electronic Format: EDF EPA Data Report Level: II Please report results to the following people: (1) Data Archive: labs@ekiconsult.com		K-Prime Laboratories, Inc.						HOLD Extract and HOLD		CTED TURN.	Date: By:		
(2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaughertyi (4) Graeme Brunst: gbrunst@ekic (5) Kel Mitchell: kmitche	@ekiconsult.com onsult.com		(107)32	7-7374		/ Group	MTBE	TPH-mo		g HOLD	D	EXPECTED TURNAROUND TIME	
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Ty	pe				Ш		æ	Remarks
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CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.

Santa Rosa CA 95403 Phone: 707 527 7574 FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROI:

TRANSMITTAL

DATE:

2/9/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

MR. KEL MITCHELL MR. RYAN FORD

ERLER & KALINOWSKI, INC.

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rford@ekiconsult.com RAKM 5/9/8017

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
TSX01-3.5-4.0	SOIL	2/2/2017	09:45	151326
TSX01-7.5-8.0	SOIL	2/2/2017	09:50	151327
TSX02-3.5-4.0	SOIL	2/2/2017	11:10	151328
TSX02-7.5-8.0	SOIL	2/2/2017	11:20	151329
TSX01X-3.5-4.0	SOIL	2/2/2017	13:40	151330
TSX01X-7.5-8.0	SOIL	2/2/2017	13:50	151331

The above listed sample group was received on 2/2/2017 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: GRO-GASOLINE RANGE ORGANICS-DRY WEIGHT

REFERENCE: EPA 8015B SAMPLE TYPE: SOIL

UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH	DATE ANALYZED	MRL	SAMPLE CONC	GRO PATTERN
TSX01-3.5-4.0	151326	02/02/2017	9:45	020617S1	02/06/2017	1.00	ND	
TSX01-7.5-8.0	151327	02/02/2017	9:50	020617S1	02/06/2017	2.22	165	
TSX02-3.5-4.0	151328	02/02/2017	11:10	020617S1	02/06/2017	1.00	ND	
TSX02-7.5-8.0	151329	02/02/2017	11:20	020617S1	02/06/2017	1.00	ND	
TSX01X-3.5-4.0	151330	02/02/2017	13:40	020617S1	02/06/2017	1.00	ND	
TSX01X-7.5-8.0	151331	02/02/2017	13:50	020617S1	02/06/2017	1.00	ND	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

MRL - METHOD REPORTING LIMIT

AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK

AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY:

DATE: 02/09/17

SAMPLE ID: TSX01-3.5-4.0 LAB NO: 151326 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 09:45

BATCH NO: 013117S1 **DATE ANALYZED: 02/06/2017**

K PRIME PROJECT: 9115

REFERENCE: EPA 5035/8260

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC		
DICHLORODIFLUOROMETHANE	75-71-8	1.76	ND		
CHLOROMETHANE	74-87-3	1.76	ND		
/INYL CHLORIDE	75-01-4	1.76	ND		
BROMOMETHANE	74-83-9	1.76	ND		
CHLOROETHANE	75-00-3	1.76	ND		
FRICHLOROFLUOROMETHANE	75-69-4	1.76	ND		
.1-DICHLOROETHENE	75-35-4	1.76	ND		
RICHLOROTRIFLUOROETHANE	76-13-1	1.76	ND		
METHYLENE CHLORIDE	75-09-2	8.81	ND		
RANS-1,2-DICHLOROETHENE	156-60-5	1.76	ND		
.1-DICHLOROETHANE	75-34-3	1.76	ND		
CIS-1,2-DICHLOROETHENE	156-59-2	1.76	ND		
2.2-DICHLOROPROPANE	594-20-7	1.76	ND		
BROMOCHLOROMETHANE	74-97-5	1.76	ND		
CHLOROFORM	67-66-3	1.76	ND		
.1.1-TRICHLOROETHANE	71-55-6	1.76	ND		
CARBON TETRACHLORIDE	56-23-5	1.76	ND		
,1-DICHLOROPROPENE	563-58-6	1.76	ND		
BENZENE	71-43-2	1.76	ND		
,2-DICHLOROETHANE	107-06-2	1.76	ND		
RICHLOROETHENE	79-01-6	1.76	ND		
.2-DICHLOROPROPANE	78-87-5	1.76	ND		
DIBROMOMETHANE	74-95-3	1.76	ND		
BROMODICHLOROMETHANE	75-27-4	1.76	ND		
RANS-1,3-DICHLOROPROPENE	10061-02-6	1.76	ND		
OLUENE	108-88-3	1.76	ND		
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.76	ND		
,1,2-TRICHLOROETHANE	79-00-5	1.76	ND		
ETRACHLOROETHENE	127-18-4	1.76	ND		
.3-DICHLOROPROPANE	142-28-9	1.76	ND		
DIBROMOCHLOROMETHANE	124-48-1	1.76	ND		
.2-DIBROMOETHANE	106-93-4	1.76	ND		
CHLOROBENZENE	108-90-7	1.76	ND		
,1,1,2-TETRACHLOROETHANE	630-20-6	1.76	ND		
THYLBENZENE	100-41-4	1.76	ND		
YLENE (M+P)	1330-20-7	1.76	ND		
YLENE (M+F)	1330-20-7	1.76	ND		
TYRENE	100-42-5	1.76	ND		
ROMOFORM	75-25-2	1.76	ND		
SOPROPYLBENZENE	98-82-8	1.76	ND		
,1,2,2-TETRACHLOROETHANE	79-34-5	1.76	ND		
	108-86-1	1.76	ND		
ROMOBENZENE	96-18-4	1.76	ND		
,2,3-TRICHLOROPROPANE	103-65-1	1.76	ND		
-PROPYLBENZENE -CHLOROTOLUENE	95-49-8	1.76	ND ND		

SAMPLE ID: TSX01-3.5-4.0

LAB NO: 151326 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 09:45

BATCH NO: 013117S1 DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.76	ND
4-CHLOROTOLUENE	106-43-4	1.76	ND
TERT-BUTYLBENZENE	98-06-6	1.76	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.76	ND
SEC-BUTYLBENZENE	135-98-8	1.76	ND
1,3-DICHLOROBENZENE	541-73-1	1.76	ND
4-ISOPROPYLTOLUENE	99-87-6	1.76	ND
1,4-DICHLOROBENZENE	106-46-7	1.76	ND
N-BUTYLBENZENE	104-51-8	1.76	ND
1,2-DICHLOROBENZENE	95-50-1	1.76	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.76	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.52	ND
HEXACHLOROBUTADIENE	87-68-3	3.52	ND
NAPHTHALENE	91-20-3	3.52	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.52	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.76	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	116
TOLUENE-D8	104
4-BROMOFLUOROBENZENE	100

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

SAMPLE ID: TSX01-7.5-8.0

LAB NO: 151327 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 09:50

BATCH NO: 013117S1 DATE ANALYZED: 02/07/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL

UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE
DICHLORODIFLUOROMETHANE	75-71-8	22.2	ND
CHLOROMETHANE	74-87-3	22.2	ND
VINYL CHLORIDE	75-01-4	22.2	ND
BROMOMETHANE	74-83-9	22.2	ND
CHLOROETHANE	75-00-3	22.2	ND
TRICHLOROFLUOROMETHANE	75-69-4	22.2	ND
1,1-DICHLOROETHENE	75-35-4	22.2	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	22.2	ND
METHYLENE CHLORIDE	75-09-2	111	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	22.2	ND
1,1-DICHLOROETHANE	75-34-3	22.2	ND
CIS-1,2-DICHLOROETHENE	156-59-2	22.2	ND
2,2-DICHLOROPROPANE	594-20-7	22.2	ND
BROMOCHLOROMETHANE	74-97-5	22.2	ND
CHLOROFORM	67-66-3	22.2	ND
1,1,1-TRICHLOROETHANE	71-55-6	22.2	ND
CARBON TETRACHLORIDE	56-23-5	22.2	ND
1,1-DICHLOROPROPENE	563-58-6	22.2	ND
BENZENE	71-43-2	22.2	ND
1,2-DICHLOROETHANE	107-06-2	22.2	ND
TRICHLOROETHENE	79-01-6	22.2	ND
1,2-DICHLOROPROPANE	78-87-5	22.2	ND
DIBROMOMETHANE	74-95-3	22.2	ND
BROMODICHLOROMETHANE	75-27-4	22.2	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	22.2	ND
TOLUENE	108-88-3	22.2	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	22.2	ND
,1,2-TRICHLOROETHANE	79-00-5	22.2	ND
TETRACHLOROETHENE	127-18-4	22.2	ND
,3-DICHLOROPROPANE	142-28-9	22.2	ND
DIBROMOCHLOROMETHANE	124-48-1	22.2	ND
.2-DIBROMOETHANE	106-93-4	22.2	ND
CHLOROBENZENE	108-90-7	22.2	ND
,1,1,2-TETRACHLOROETHANE	630-20-6	22.2	ND
THYLBENZENE	100-41-4	22.2	ND
(YLENE (M+P)	1330-20-7	22.2	ND
(YLENE (O)	1330-20-7	22.2	ND
STYRENE	100-42-5	22.2	ND
BROMOFORM	75-25-2	22.2	ND
SOPROPYLBENZENE	98-82-8	22.2	ND
,1,2,2-TETRACHLOROETHANE	79-34-5	22.2	ND
BROMOBENZENE	108-86-1	22.2	ND
,2,3-TRICHLOROPROPANE	96-18-4	22.2	ND
N-PROPYLBENZENE	103-65-1	22.2	ND
2-CHLOROTOLUENE	95-49-8	22.2	ND

SAMPLE ID: TSX01-7.5-8.0

LAB NO: 151327 **DATE SAMPLED:** 02/02/2017

TIME SAMPLED: 09:50

BATCH NO: 013117S1

DATE ANALYZED: 02/07/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL

UNITS: µg/Kg dry weight REFERENCE: EPA 5035/8260

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	22.2	ND
4-CHLOROTOLUENE	106-43-4	22.2	ND
TERT-BUTYLBENZENE	98-06-6	22.2	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	22.2	ND
SEC-BUTYLBENZENE	135-98-8	22.2	ND
1,3-DICHLOROBENZENE	541-73-1	22.2	ND
4-ISOPROPYLTOLUENE	99-87-6	22.2	ND
1,4-DICHLOROBENZENE	106-46-7	22.2	ND
N-BUTYLBENZENE	104-51-8	22.2	ND
1,2-DICHLOROBENZENE	95-50-1	22.2	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	22.2	ND
1,2,4-TRICHLOROBENZENE	120-82-1	44.3	ND
HEXACHLOROBUTADIENE	87-68-3	44.3	ND
NAPHTHALENE	91-20-3	44.3	ND
1,2,3-TRICHLOROBENZENE	87-61-6	44.3	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	22.2	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	98
TOLUENE-D8	110
4-BROMOFLUOROBENZENE	132

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

SAMPLE ID: TSX02-3.5-4.0

LAB NO: 151328 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 02/02/20

BATCH NO: 013117S1 DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE
DICHLORODIFLUOROMETHANE	75-71-8	1.63	ND
CHLOROMETHANE	74-87-3	1.63	ND
VINYL CHLORIDE	75-01-4	1.63	ND
BROMOMETHANE	74-83-9	1.63	ND
CHLOROETHANE	75-00-3	1.63	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.63	ND
1,1-DICHLOROETHENE	75-35-4	1.63	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.63	ND
METHYLENE CHLORIDE	75-09-2	8.14	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.63	ND
1,1-DICHLOROETHANE	75-34-3	1.63	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.63	ND
2,2-DICHLOROPROPANE	594-20-7	1.63	ND
BROMOCHLOROMETHANE	74-97-5	1.63	ND
CHLOROFORM	67-66-3	1.63	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.63	ND
CARBON TETRACHLORIDE	56-23-5	1.63	ND
1.1-DICHLOROPROPENE	563-58-6	1.63	ND
BENZENE	71-43-2	1.63	ND
1,2-DICHLOROETHANE	107-06-2	1.63	ND
TRICHLOROETHENE	79-01-6	1.63	ND
1.2-DICHLOROPROPANE	78-87-5	1.63	ND
DIBROMOMETHANE	74-95-3	1.63	ND
BROMODICHLOROMETHANE	75-27-4	1.63	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.63	ND
TOLUENE	108-88-3	1.63	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.63	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.63	ND
TETRACHLOROETHENE	127-18-4	1.63	ND
1,3-DICHLOROPROPANE	142-28-9	1.63	ND
DIBROMOCHLOROMETHANE	124-48-1	1.63	ND
1.2-DIBROMOETHANE	106-93-4	1.63	ND
CHLOROBENZENE	108-90-7	1.63	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.63	ND
ETHYLBENZENE	100-41-4	1.63	ND
XYLENE (M+P)	1330-20-7	1.63	ND
XYLENE (O)	1330-20-7	1.63	ND
STYRENE	100-42-5	1.63	ND
BROMOFORM	75-25-2	1.63	ND
SOPROPYLBENZENE	98-82-8	1.63	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.63	ND
BROMOBENZENE	108-86-1	1.63	ND
I,2,3-TRICHLOROPROPANE	96-18-4	1.63	ND
N-PROPYLBENZENE	103-65-1	1.63	ND
2-CHLOROTOLUENE	95-49-8	1.63	ND

SAMPLE ID: TSX02-3.5-4.0

LAB NO: 151328 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 11:10

BATCH NO: 013117S1

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

DATE ANALYZED: 02/06/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260

UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.63	ND
4-CHLOROTOLUENE	106-43-4	1.63	ND
TERT-BUTYLBENZENE	98-06-6	1.63	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.63	ND
SEC-BUTYLBENZENE	135-98-8	1.63	ND
1,3-DICHLOROBENZENE	541-73-1	1.63	ND
4-ISOPROPYLTOLUENE	99-87-6	1.63	ND
1,4-DICHLOROBENZENE	106-46-7	1.63	ND
N-BUTYLBENZENE	104-51-8	1.63	ND
1,2-DICHLOROBENZENE	95-50-1	1.63	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.63	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.25	ND
HEXACHLOROBUTADIENE	87-68-3	3.25	ND
NAPHTHALENE	91-20-3	3.25	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.25	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.63	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	106
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	101

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

02-16911

K PRIME PROJECT: 9115

SAMPLE ID: TSX02-7.5-8.0

LAB NO: 151329 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 11:20 BATCH NO: 013117S1

DATE ANALYZED: 02/06/2017

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260 UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE
DICHLORODIFLUOROMETHANE	75-71-8	1.65	ND
CHLOROMETHANE	74-87-3	1.65	ND
VINYL CHLORIDE	75-01-4	1.65	ND
BROMOMETHANE	74-83-9	1.65	ND
CHLOROETHANE	75-00-3	1.65	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.65	ND
1,1-DICHLOROETHENE	75-35-4	1.65	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.65	ND
METHYLENE CHLORIDE	75-09-2	8.24	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.65	ND
1,1-DICHLOROETHANE	75-34-3	1.65	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.65	ND
2,2-DICHLOROPROPANE	594-20-7	1.65	ND
BROMOCHLOROMETHANE	74-97-5	1.65	ND
CHLOROFORM	67-66-3	1.65	ND
1.1.1-TRICHLOROETHANE	71-55-6	1.65	ND
CARBON TETRACHLORIDE	56-23-5	1.65	ND
1,1-DICHLOROPROPENE	563-58-6	1.65	ND
BENZENE	71-43-2	1.65	ND
1,2-DICHLOROETHANE	107-06-2	1.65	ND
TRICHLOROETHENE	79-01-6	1.65	ND
1,2-DICHLOROPROPANE	78-87-5	1.65	ND
DIBROMOMETHANE	74-95-3	1.65	ND
BROMODICHLOROMETHANE	75-27-4	1.65	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.65	ND
TOLUENE	108-88-3	1.65	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.65	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.65	ND
TETRACHLOROETHENE	127-18-4	1.65	ND
1,3-DICHLOROPROPANE	142-28-9	1.65	ND
DIBROMOCHLOROMETHANE	124-48-1	1.65	ND
1,2-DIBROMOETHANE	106-93-4	1.65	ND
CHLOROBENZENE	108-90-7	1.65	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.65	ND
ETHYLBENZENE	100-41-4	1.65	ND
(YLENE (M+P)	1330-20-7	1.65	ND
	1330-20-7	1.65	ND
(YLENE (O)	100-42-5	1.65	ND
STYRENE		1.65	ND
BROMOFORM	75-25-2		ND ND
SOPROPYLBENZENE	98-82-8	1.65	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.65 1.65	ND ND
BROMOBENZENE	108-86-1		ND ND
,2,3-TRICHLOROPROPANE	96-18-4	1.65	
N-PROPYLBENZENE	103-65-1	1.65	ND
-CHLOROTOLUENE	95-49-8	1.65	ND

SAMPLE ID: TSX02-7.5-8.0

LAB NO: 151329 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 11:20

BATCH NO: 013117S1 DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115

REFERENCE: EPA 5035/8260

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL
UNITS: µg/Kg dry weight

KEI EREKOEI ER TVOSSISTER				
COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC	
1,3,5-TRIMETHYLBENZENE	108-67-8	1.65	ND	
4-CHLOROTOLUENE	106-43-4	1.65	ND	
TERT-BUTYLBENZENE	98-06-6	1.65	ND	
1,2,4-TRIMETHYLBENZENE	95-63-6	1.65	ND	
SEC-BUTYLBENZENE	135-98-8	1.65	ND	
1,3-DICHLOROBENZENE	541-73-1	1.65	ND	
4-ISOPROPYLTOLUENE	99-87-6	1.65	ND	
1.4-DICHLOROBENZENE	106-46-7	1.65	ND	
N-BUTYLBENZENE	104-51-8	1.65	ND	
1,2-DICHLOROBENZENE	95-50-1	1.65	ND	
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.65	ND	
1,2,4-TRICHLOROBENZENE	120-82-1	3.30	ND	
HEXACHLOROBUTADIENE	87-68-3	3.30	ND	
NAPHTHALENE	91-20-3	3.30	ND	
1,2,3-TRICHLOROBENZENE	87-61-6	3.30	ND	
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.65	ND	

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	111
TOLUENE-D8	107
4-BROMOFLUOROBENZENE	103

NOTES:

 \mbox{ND} - \mbox{NOT} DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

02/09/17

SAMPLE ID: TSX01X-3.5-4.0 **LAB NO:** 151330

DATE SAMPLED: 02/02/2017

TIME SAMPLED: 13:40

BATCH NO: 013117S1 DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

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METHOD: VOLATILE ORGANIC COMPOUNDS REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL

UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE
DICHLORODIFLUOROMETHANE	75-71-8	1.66	ND
CHLOROMETHANE	74-87-3	1.66	ND
VINYL CHLORIDE	75-01-4	1.66	ND
BROMOMETHANE	74-83-9	1.66	ND
CHLOROETHANE	75-00-3	1.66	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.66	ND
1,1-DICHLOROETHENE	75-35-4	1.66	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.66	ND
METHYLENE CHLORIDE	75-09-2	8.32	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.66	ND
1,1-DICHLOROETHANE	75-34-3	1.66	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.66	ND
2,2-DICHLOROPROPANE	594-20-7	1.66	ND
BROMOCHLOROMETHANE	74-97-5	1.66	ND
CHLOROFORM	67-66-3	1.66	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.66	ND
CARBON TETRACHLORIDE	56-23-5	1.66	ND
1.1-DICHLOROPROPENE	563-58-6	1.66	ND
BENZENE	71-43-2	1.66	ND
1,2-DICHLOROETHANE	107-06-2	1.66	ND
TRICHLOROETHENE	79-01-6	1.66	ND
1,2-DICHLOROPROPANE	78-87-5	1.66	ND
DIBROMOMETHANE	74-95-3	1.66	ND
BROMODICHLOROMETHANE	75-27-4	1.66	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.66	ND
TOLUENE	108-88-3	1.66	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.66	ND
1.1.2-TRICHLOROETHANE	79-00-5	1.66	ND
TETRACHLOROETHENE	127-18-4	1.66	ND
1,3-DICHLOROPROPANE	142-28-9	1.66	ND
DIBROMOCHLOROMETHANE	124-48-1	1.66	ND
1.2-DIBROMOETHANE	106-93-4	1.66	ND
CHLOROBENZENE	108-90-7	1.66	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.66	ND
ETHYLBENZENE	100-41-4	1.66	ND
XYLENE (M+P)	1330-20-7	1.66	ND
XYLENE (O)	1330-20-7	1.66	ND
STYRENE	100-42-5	1.66	ND
BROMOFORM	75-25-2	1.66	ND
SOPROPYLBENZENE	98-82-8	1.66	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.66	ND
BROMOBENZENE	108-86-1	1.66	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.66	ND
N-PROPYLBENZENE	103-65-1	1.66	ND
2-CHLOROTOLUENE	95-49-8	1.66	ND

SAMPLE ID: TSX01X-3.5-4.0

LAB NO: 151330 DATE SAMPLED: 02/02/2017

TIME SAMPLED: 13:40

BATCH NO: 013117S1 DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL

UNITS: μg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.66	ND
4-CHLOROTOLUENE	106-43-4	1.66	ND
TERT-BUTYLBENZENE	98-06-6	1.66	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.66	ND
SEC-BUTYLBENZENE	135-98-8	1.66	ND
1.3-DICHLOROBENZENE	541-73-1	1.66	ND
4-ISOPROPYLTOLUENE	99-87-6	1.66	ND
1,4-DICHLOROBENZENE	106-46-7	1.66	ND
N-BUTYLBENZENE	104-51-8	1.66	ND
1,2-DICHLOROBENZENE	95-50-1	1.66	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.66	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.33	ND
HEXACHLOROBUTADIENE	87-68-3	3.33	ND
NAPHTHALENE	91-20-3	3.33	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.33	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.66	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	107
TOLUENE-D8	103
4-BROMOFLUOROBENZENE	94

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

SAMPLE ID: TSX01X-7.5-8.0

LAB NO: 151331 **DATE SAMPLED: 02/02/2017**

TIME SAMPLED: 13:50 BATCH NO: 013117S1

DATE ANALYZED: 02/06/2017

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL

UNITS: µg/Kg dry weight REFERENCE: EPA 5035/8260

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE
DICHLORODIFLUOROMETHANE	75-71-8	1.63	ND
CHLOROMETHANE	74-87-3	1.63	ND
VINYL CHLORIDE	75-01-4	1.63	ND
BROMOMETHANE	74-83-9	1.63	ND
CHLOROETHANE	75-00-3	1.63	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.63	ND
1,1-DICHLOROETHENE	75-35-4	1.63	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.63	ND
METHYLENE CHLORIDE	75-09-2	8.16	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.63	ND
1,1-DICHLOROETHANE	75-34-3	1.63	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.63	ND
2,2-DICHLOROPROPANE	594-20-7	1.63	ND
BROMOCHLOROMETHANE	74-97-5	1.63	ND
CHLOROFORM	67-66-3	1.63	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.63	ND
CARBON TETRACHLORIDE	56-23-5	1.63	ND
1,1-DICHLOROPROPENE	563-58-6	1.63	ND
BENZENE	71-43-2	1.63	ND
1,2-DICHLOROETHANE	107-06-2	1.63	ND
TRICHLOROETHENE	79-01-6	1.63	ND
1,2-DICHLOROPROPANE	78-87-5	1.63	ND
DIBROMOMETHANE	74-95-3	1.63	ND
BROMODICHLOROMETHANE	75-27-4	1.63	ND
FRANS-1,3-DICHLOROPROPENE	10061-02-6	1.63	ND
TOLUENE	108-88-3	1.63	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.63	ND
.1,2-TRICHLOROETHANE	79-00-5	1.63	ND
TETRACHLOROETHENE	127-18-4	1.63	ND
.3-DICHLOROPROPANE	142-28-9	1.63	ND
DIBROMOCHLOROMETHANE	124-48-1	1.63	ND
.2-DIBROMOETHANE	106-93-4	1.63	ND
CHLOROBENZENE	108-90-7	1.63	ND
,1,1,2-TETRACHLOROETHANE	630-20-6	1.63	ND
THYLBENZENE	100-41-4	1.63	ND
(YLENE (M+P)	1330-20-7	1.63	ND
(YLENE (O)	1330-20-7	1.63	ND
TYRENE	100-42-5	1.63	ND
BROMOFORM	75-25-2	1.63	ND
SOPROPYLBENZENE	98-82-8	1.63	ND
,1,2,2-TETRACHLOROETHANE	79-34-5	1.63	ND
BROMOBENZENE	108-86-1	1.63	ND
,2,3-TRICHLOROPROPANE	96-18-4	1.63	ND
I-PROPYLBENZENE	103-65-1	1.63	ND
-CHLOROTOLUENE	95-49-8	1.63	ND

REFERENCE: EPA 5035/8260

SAMPLE ID: TSX01X-7.5-8.0

LAB NO: 151331 **DATE SAMPLED: 02/02/2017**

TIME SAMPLED: 13:50

BATCH NO: 013117S1

K PRIME PROJECT: 9115 **DATE ANALYZED:** 02/06/2017 CLIENT PROJECT: B20006.00 T7

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL

UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.63	ND
4-CHLOROTOLUENE	106-43-4	1.63	ND
TERT-BUTYLBENZENE	98-06-6	1.63	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.63	ND
SEC-BUTYLBENZENE	135-98-8	1.63	ND
1,3-DICHLOROBENZENE	541-73-1	1.63	ND
4-ISOPROPYLTOLUENE	99-87-6	1.63	ND
1,4-DICHLOROBENZENE	106-46-7	1.63	ND
N-BUTYLBENZENE	104-51-8	1.63	ND
1,2-DICHLOROBENZENE	95-50-1	1.63	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.63	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.27	ND
HEXACHLOROBUTADIENE	87-68-3	3.27	ND
NAPHTHALENE	91-20-3	3.27	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.27	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.63	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	107
TOLUENE-D8	104
4-BROMOFLUOROBENZENE	100

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY:

DATE:

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: DRO

REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL

UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE	DRO PATTERN
TSX01-3.5-4.0	151326	02/02/2017	020317S1	02/03/2017	02/03/2017	12.9	ND	
TSX01-7.5-8.0	151327	02/02/2017	020317S1	02/03/2017	02/03/2017	12.7	116	AC
TSX02-3.5-4.0	151328	02/02/2017	020317S1	02/03/2017	02/03/2017	12.6	ND	
TSX02-7.5-8.0	151329	02/02/2017	020317S1	02/03/2017	02/03/2017	12.7	ND	
TSX01X-3,5-4.0	151330	02/02/2017	020317S1	02/03/2017	02/03/2017	12.9	ND	
TSX01X-7.5-8.0	151331	02/02/2017	020317S1	02/03/2017	02/03/2017	12.6	13.6	

NOTES:	
DRO	Diesel Range Organics (C12-C23)
ND	Not Detected at or above the stated MRL
NA	Not Applicable or Available
MRL	Method Reporting Limit
AD	Typical Pattern for Diesel
AM	Hydrocarbon response is in the C12-C22 range
AC	Heavier hydrocarbons contributing to diesel range quantitation
AJ	Heavier hydrocarbon than diesel
AK	Lighter hydrocarbon than diesel
AE	Unknown hydrocarbon with a single peak
AN	Unknown hydrocarbon with several peaks

APPROVED BY: 02/09/17

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: HRO

REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL

UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE	HRO PATTERN
TSX01-3.5-4.0	151326	02/02/2017	020317S1	02/03/2017	02/03/2017	12.9	ND	1
TSX01-7.5-8.0	151327	02/02/2017	020317S1	02/03/2017	02/03/2017	12.7	94.3	
TSX02-3.5-4.0	151328	02/02/2017	020317S1	02/03/2017	02/03/2017	12.6	ND	
TSX02-7.5-8.0	151329	02/02/2017	020317S1	02/03/2017	02/03/2017	12.7	ND	
TSX01X-3.5-4.0	151330	02/02/2017	020317S1	02/03/2017	02/03/2017	12.9	ND	
TSX01X-7.5-8.0	151331	02/02/2017	020317S1	02/03/2017	02/03/2017	12.6	ND	

NOTES:

HRO Heavy Range Organics (C24-C34)
ND Not Detected at or above the stated MRL

NA Not Applicable or Available MRL Method Reporting Limit

AE Unknown hydrocarbon with a single peak
AN Unknown hydrocarbon with several peaks

APPROVED BY:

DATE:

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD:

PERCENT MOISTURE

SAMPLE TYPE: SOIL

REFERENCE: ASTM D 2216-05

UNITS: %

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
TSX01-3.5-4.0	151326	02/02/2017	9:45	020217S1	02/03/2017	0.100	22.5
TSX01-7.5-8.0	151327	02/02/2017	9:50	020217S1	02/03/2017	0.100	21.0
TSX02-3.5-4.0	151328	02/02/2017	11:10	020217S1	02/03/2017	0.100	20.4
TSX02-7.5-8.0	151329	02/02/2017	11:20	020217S1	02/03/2017	0.100	21.4
TSX01X-3.5-4.0	151330	02/02/2017	13:40	020217S1	02/03/2017	0.100	22.2
TSX01X-7.5-8.0	151331	02/02/2017	13:50	020217S1	02/03/2017	0.100	20.4

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT AVAILABLE OR APPLICABLE MRL - METHOD REPORTING LIMIT

APPROVED BY:

DATE: 02/09/17

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

METHOD: GRO-GASOLINE RANGE ORGANICS

REFERENCE: EPA 8015B

METHOD BLANK ID: B020617S1

BATCH #: 020617S1

SAMPLE TYPE: SOIL

UNITS: mg/Kg

DATE EXTRACTED: 02/06/2017 DATE ANALYZED: 02/06/2017

COMPOUND NAME	REPORTING LIMIT	SAMPLE
TPH-G	1.00	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA - NOT AVAILABLE OR APPLICABLE

SAMPLE ID: L020617S1 DUPLICATE ID: D020617S1 BATCH #: 020617S1

SAMPLE TYPE: SOIL UNITS: mg/Kg

DATE EXTRACTED: 02/06/2017 DATE ANALYZED: 02/06/2017

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
TPH-G	5.00	ND	5.08	102	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS
	LIMIT	RESULT	RESULT	(%)	(%)
TPH-G	1.00	5.08	4.91	3.4	±20

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

METHOD BLANK ID: B013117S1 BATCH NO: 013117S1 DATE ANALYZED: 01/31/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL UNITS: µg/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.50	ND
CHLOROMETHANE	74-87-3	1.50	ND
VINYL CHLORIDE	75-01-4	1.50	ND
BROMOMETHANE	74-83-9	1.50	ND
CHLOROETHANE	75-00-3	1.50	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.50	ND
1,1-DICHLOROETHENE	75-35-4	1.50	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.50	ND
METHYLENE CHLORIDE	75-09-2	7.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.50	ND
1,1-DICHLOROETHANE	75-34-3	1.50	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.50	ND
2,2-DICHLOROPROPANE	594-20-7	1.50	ND
BROMOCHLOROMETHANE	74-97-5	1.50	ND
CHLOROFORM	67-66-3	1.50	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.50	ND
CARBON TETRACHLORIDE	56-23-5	1.50	ND
1,1-DICHLOROPROPENE	563-58-6	1.50	ND
BENZENE	71-43-2	1.50	ND
1,2-DICHLOROETHANE	107-06-2	1.50	ND
TRICHLOROETHENE	79-01-6	1.50	ND
1,2-DICHLOROPROPANE	78-87-5	1.50	ND
DIBROMOMETHANE	74-95-3	1.50	ND
BROMODICHLOROMETHANE	75-27-4	1.50	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.50	ND
TOLUENE	108-88-3	1.50	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.50	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.50	ND
TETRACHLOROETHENE	127-18-4	1.50	ND
.3-DICHLOROPROPANE	142-28-9	1.50	ND
DIBROMOCHLOROMETHANE	124-48-1	1.50	ND
,2-DIBROMOETHANE	106-93-4	1.50	ND
CHLOROBENZENE	108-90-7	1.50	ND
,1,1,2-TETRACHLOROETHANE	630-20-6	1.50	ND
THYLBENZENE	100-41-4	1.50	ND
(YLENE (M+P)	1330-20-7	1.50	ND
(YLENE (O)	1330-20-7	1.50	ND
STYRENE	100-42-5	1.50	ND
BROMOFORM	75-25-2	1.50	ND
SOPROPYLBENZENE	98-82-8	1.50	ND
,1,2,2-TETRACHLOROETHANE	79-34-5	1.50	ND
BROMOBENZENE	108-86-1	1.50	ND
,2,3-TRICHLOROPROPANE	96-18-4	1.50	ND
I-PROPYLBENZENE	103-65-1	1.50	ND
-CHLOROTOLUENE	95-49-8	1.50	ND

METHOD BLANK ID: B013117S1 BATCH NO: 013117S1 DATE ANALYZED: 01/31/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260

UNITS: µg/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.50	ND
4-CHLOROTOLUENE	106-43-4	1.50	ND
TERT-BUTYLBENZENE	98-06-6	1.50	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.50	ND
SEC-BUTYLBENZENE	135-98-8	1.50	ND
1,3-DICHLOROBENZENE	541-73-1	1.50	ND
4-ISOPROPYLTOLUENE	99-87-6	1.50	ND
1,4-DICHLOROBENZENE	106-46-7	1.50	ND
N-BUTYLBENZENE	104-51-8	1.50	ND
1,2-DICHLOROBENZENE	95-50-1	1.50	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	1.50	ND
1,2,4-TRICHLOROBENZENE	120-82-1	3.00	ND
HEXACHLOROBUTADIENE	87-68-3	3.00	ND
NAPHTHALENE	91-20-3	3.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	3.00	ND
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	1.94	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	114
TOLUENE-D8	103
4-BROMOFLUOROBENZENE	97

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT NA -NOT APPLICABLE OR AVAILABLE

LABORATORY BATCH QC REPORT

SAMPLE ID: B013117S1

SPIKE ID: L013117S1

DUPLICATE ID: D013117S1

BATCH NO: 013117S1

SAMPLE TYPE: SOIL

UNITS: µg/Kg

METHOD: VOLATILE ORGANIC COMPOUNDS

REFERENCE: EPA 5035/8260

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS
	ADDED	RESULT	RESULT	(%)	(%)
1,1 DICHLOROETHENE	30.0	ND	25.7	86	60-140
BENZENE	30.0	ND	28.6	95	60-140
TRICHLOROETHENE	30.0	ND	30.6	102	60-140
TOLUENE	30.0	ND	31.2	104	60-140
CHLOROBENZENE	30.0	ND	31.5	105	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS	
	LIMIT	RESULT	RESULT	(%)	(%)	
1,1 DICHLOROETHENE	1.50	25.7	23.9	7.2	±20	
BENZENE	1.50	28.6	29.3	2.4	±20	
TRICHLOROETHENE	1.50	30.6	30.1	1.9	±20 ±20	
TOLUENE	1.50	31.2	30.5	2.0		
CHLOROBENZENE	1.50	31.5	31.4	0.4	±20	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT AVAILABLE OR APPLICABLE

LABORATORY QUALITY CONTROL REPORT

BATCH ID: 020317S1

DATE EXTRACTED: 02/03/2017

DATE ANALYZED:

02/03/2017

METHOD: DRO

REFERENCE: EPA 8015B

SAMPLE TYPE:

SOIL

UNITS:

mg/Kg

METHOD BLANK ID: B020317S1

COMPOUND NAME

DRO

REPORTING

SAMPLE

LIMIT

10.0

CONC ND

SAMPLE ID: L020317S1

DUPLICATE ID: D020317S1

ACCURACY (MATRIX SPIKE)

PARAMETER DRO	SPIKE	SAMPLE	SPIKE	RECOVERY	LIMITS	
	ADDED	RESULT	RESULT	(%)	(%)	
	500	ND	476	95	60-140	

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING	SPIKE	DUPLICATE	RPD	LIMITS	
	LIMIT	RESULT	RESULT	(%)	(%)	
DRO	10.0	476	471	1.0	±20	

NOTES:

DRO - DIESEL RANGE ORGANICS (C12-C34)

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

SAMPLE ID: 151281 DUPLICATE ID: 151281DUP

METHOD BLANK ID: B020217S1

BATCH NO: 020217S1

DATE ANALYZED: 02/03/2017

METHOD:

PERCENT MOISTURE

SAMPLE TYPE: SOIL

UNITS: %

REFERENCE:

ASTM D 2216-05

PRECISION (DUPLICATE)

ANALYTE	REPORTING	PRIMARY	DUPLICATE	RPD	
	LIMIT	RESULT	RESULT	(%)	
% MOISTURE	0.100	7.46	7.43	0.4	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE

RPD - RELATIVE PERCENT DIFFERENCE

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

1		1
L	OF	1
	1	1 05

CONSULTING ENGINEERS AND SCIENTISTS		1870 Ogden Drive, Burlingame CA 94010		www.ekiconsult.com			.com	n PHONE: 650-292-9			92-9	FAX: 650-552-9012				
Project Name: Horton St UST				Project No.: B20006.00 T7		ANALY				ALYSES	LYSES REQUESTED				GeoTracker Global ID #: T10000007323	
Location: Emeryville, CA Reporting: Electronic Format: EDF Hard Copy Format: PDF EPA Data Report Level: II Please report results to the following people: (1) Data Archive: labs@ekiconsult.com (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@ekiconsult.com (4) Graeme Brunst: gbrunst@ekiconsult.com (5) Kel Mitchel: kmitchel @ekiconsult.com		K-Prime Laboratories, Inc.				5 5	EPA 8015M	EPA 8015M	EPA 8015M							Revision:(A, B, C, D, etc.) Date: By:
							TPH-d / DRO &TPH-T	Percent Moisture			Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Remarks		
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Typ	e		3	3						m	
TSXØ1-3.5-4.0	151326	2 Feb 17	0945	Soil	5 x 5-gram EnCore		×	X							STD	
		1	0110		4-oz glass jar	-		-	× 9						3	
TSX01-7,5-8.0	15/327	2 Feb 1+	0950	Soil	5 x 5-gram EnCore 4-oz glass jar		1	X	×			++				
TSX p2-3.5-4.0	15 328	2Feb (7	1110	Soil	5 x 5-gram EnCore		×	×	- //							
	13/320	2100	1110	170	4-oz glass jar				XX							
13x02-7,5-8.0	151329	2Feb 17	11:20	Soil	5 x 5-gram EnCore 4-oz glass jar	-	X	K	۷,							
73××3,54,0	151330	2 Feb 17	1340	Soil	5 x 5-gram EnCore		¥	K							V	
					4-oz glass jar	_		4	4 4	11						
T5xx1x-7.5-8.0	151331	2 Feb 2017	1330	Soil	5 x 5-gram EnCore 4-oz glass jar	-	7	×	14	H		1				20
Special Instructions:		result on o		nt bas				-						1_1		
Relinquished by: (Signature/Affili	Men	1		Date & Time	7 54	9				Re	ceived by	Signa	ature/	Affilia	ation or Carrie	1 1
Relinquished by: (Signature/Affili	ation)	e(1/10))	Date & Time	17 17:1	10				Re	eived by	: (Signa	ature/	Affilia	ation	12/17 34
Relinquished by: (Signature/Affili	ation)	-(0)		Date & Time		10				Re	eived by	: (Signa	ature/	Affilia	rtion)	

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574 707 527 7879 FAX:

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/9/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST

MR. KEL MITCHELL MR. RYAN FORD

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

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jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com rford@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT:

LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID

TYPE

DATE

TIME

KPI LAB #

TSV01

AIR

2/2/2017

15:26

151335

The above listed sample group was received on 2/2/2017 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME, INC. LABORATORY REPORT

K PRIME PROJECT: 9115 CLIENT PROJECT: B20006.00 T7

METHOD: VOC'S IN AIR REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)
 SAMPLE ID:
 TSV01

 LAB NO:
 151335

 SAMPLE TYPE:
 AIR

 SAMPLE TYPE:
 AIR

 DATE SAMPLED:
 02/02/2017

 TIME SAMPLED:
 15:26

BATCH ID: 012617A1 **DATE ANALYZED:** 02/03/2017

		PPB (V/V)	μg/cu. n	1
COMPOUND NAME	CAS NO.	RL	SAMPLE	RL	SAMPLE
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	159-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3,19	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1.2-DICHLOROPROPANE	78-87-5	1,00	ND	4.62	ND
TRICHLOROETHENE	79-01-6	1.00	1.84	5.37	9.89
CIS-1.3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
1.1.2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
TETRACHLOROETHENE	127-18-4	1.00	2.27	6.78	15.4
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	179601-23-1	2.00	ND	8.68	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND	7.42	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

RL - REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

 μ g/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE

AND PRESSURE (NPT).

APPROVED BY: Ty

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: 1,1-DIFLUOROETHANE

REFERENCE: EPA TO 3 UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE
TSV01	151335	AIR	02/02/2017	012417A1	02/03/2017	10.0	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT NA - NOT APPLICABLE OR AVAILABLE MRL - METHOD REPORTING LIMIT

APPROVED BY:

DATE: 2/9/2017

K PRIME, INC. LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B012617A1

SAMPLE TYPE:

AIR

BATCH ID:

012617A1

METHOD: VOC'S IN AIR

REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

DATE ANALYZED: 01/26/2017

		PPB (\	//V)	μg/cu.	m	
COMPOUND NAME	CAS NO.	RL	SAMPLE	RL	SAMPLE	
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND	
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND	
DICHLOROTETRAFLUOROETHANE	76-14-2	0.500	ND	3.50	ND	
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND	
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND	
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND	
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	2.81	ND	
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND	
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND	
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND	
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	1.98	ND	
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND	
CIS-1,2-DICHLOROETHENE	159-59-2	0.500	ND	1.98	ND	
CHLOROFORM	67-66-3	0.500	ND	2.44	ND	
1.1.1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND	
1.2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND	
BENZENE	71-43-2	0.500	ND	1.60	ND	
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND	
1.2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND	
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND	
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND	
TRANS-1.3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND	
TOLUENE	108-88-3	0.500	ND	1.88	ND	
1.1.2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND	
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND	
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND	
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND	
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND	
XYLENE (M+P)	179601-23-1	1.00	ND	4.34	ND	
STYRENE	100-42-5	0.500	ND	2.13	ND	
XYLENE (O)	95-47-6	0.500	ND	2.17	ND	
1.1.2.2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND	
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND	
1.2.4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND	
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND	
1.4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND	
1.2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND	
1.2.4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND	
HEXACHLOROBUTADIENE	87-68-3	0.500	ND	5.33	ND	

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

 $\mu g/cu.$ m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC. LABORATORY QUALITY CONTROL REPORT LAB CONTROL ID: L012617A1

LAB CONTROL DUPLICATE ID: D012617A1

SAMPLE TYPE:

AIR

METHOD: VOC'S IN AIR

REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

BATCH ID: 012617A1 DATE ANALYZED: 01/26/2017

SPIKE SPIKE REC SPIKE REPORTING SAMPLE LIMITS CONC CONC REC COMPOUND NAME ADDED LIMIT (PPB) (PPB) (PPB) (%) (PPB) (%) 0.500 ND 8.71 87 60 - 140 1,1-DICHLOROETHENE 10.0 84 60 - 140 10.0 0.500 ND 8.44 BENZENE TRICHLOROETHENE 0.500 ND 9.31 93 60 - 140 10.0 TOLUENE 10.0 0.500 ND 9.37 94 60 - 140 TETRACHLOROETHENE 94 60 - 140 10.0 0.500 ND 9.36

	SPIKE	SPIKE DUP	SPIKE DUP		QC	LIMITS
COMPOUND NAME	ADDED (PPB)	CONC (PPB)	REC (%)	RPD (%)	RPD (%)	REC (%)
1,1-DICHLOROETHENE	10.0	9.58	96	9.5	25	60 - 140
BENZENE	10.0	8.87	89	5.0	25	60 - 140
TRICHLOROETHENE	10.0	10.7	107	14.0	25	60 - 140
TOLUENE	10.0	9.08	91	3.1	25	60 - 140
TETRACHLOROETHENE	10.0	8.66	87	7.8	25	60 - 140

NOTES:

NA - NOT APPLICABLE OR AVAILABLE

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

K PRIME, INC. LABORATORY QC REPORT

METHOD BLANK ID: B012417A1

LAB CONTROL SAMPLE ID: L012417A1

LAB CONTROL DUPLICATE ID: D012417A1

BATCH ID: 012417A1

METHOD: 1,1-DIFLUOROETHANE

REFERENCE: EPA TO 3

SAMPLE TYPE:

AIR

UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE
1,1-DIFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	10900	109	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE	DUPLICATE	RPD	LIMITS
	RESULT	RESULT	(PERCENT)	(PERCENT)
1,1-DIFLUOROETHANE	10900	10700	1.9	±30

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

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PAGE	OF	

CONSULTING ENGINEERS /	AND SCIENTI	515		Drive, Burli	ngame CA 94010	PH	ONE:	550-292	2-9100	FA	X: 6	550-552-9012	
Project Name: Horton St UST			Project No.	B20006.00	Т7		ANAL	YSES	REQUES	STED		GeoTracker Global ID #: T10000007323	
Location: Emeryville, CA			Sampled By:	G. Brunst &	K Mitchel	Me	Ð	E P			Ģ.,	Revision:	(A, B, C, D, etc.)
Reporting:			Laboratory:	o. Dianot a	T. WILCHEI	Method No.	EPA TO-3	EPA TO-15				Date:	By:
Electronic Format: EDF	Hard Copy F	ormat: PDF				No.	2)-15				Dutc.	by.
EPA Data Report Level: II				K Prime	o loo			-					
Please report results to the following people: (1) Data Archive: labs@ekiconsult.com (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@ekiconsult.com (4) Graeme Brunst: gbrunst@ekiconsult.com (5) Kel Mitchell: kmitchell@ekiconsult.com (6) Ryan Ford: rford@ekiconsult.com	lt.com		5	3621 West Santa Rosa, 707-527-75	wind Blvd. CA 95403	Analyte Group	1,1-Difluoroethane	VOCs			PLACE OF	EXPECTED	
Field Sample Identification	Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservati	ive)	(DFA)				ON HOLD	TURNAROUND TIME	REMARKS / Summa ID
TSVØ1	151335	2/2/2017	1526	Air	1 x 1-L summa		X	X				STD	5-294
	/			1									
										/			
						-							
Special Instructions:	Please repo	rt both ppmv and	d ug/m³ on the	EDD. Plea	se report DFA 🙀 resu	ults	with 10) ppmv	reporti	ng lim	it.		
Relinquished by:	(Signature/Affil	lation)		Date 2/2/, -	155 ₀	R	eceived	one	9/	1/0	- /) a/2/1	2 2.07
Relinquished by:	(Signature/Affil	(VTC)		Date 2/2/17	Time	Ŕ	eceived	by:	2	1	,	01-11	7 3:50
		()		1 1	1110				m	1	_		

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd. Santa Rosa CA 95403

Phone: 707 527 7574 FAX: 707 527 7879

9115

B20006.00 T7

ACCT:

PROJ:

TRANSMITTAL

DATE:

2/9/2017

TO:

MS. JOY SU

MS. JESSICA DAUGHERTY MR. GRAEME BRUNST MR. KEL MITCHELL

MR. RYAN FORD

ERLER & KALINOWSKI, INC.

1870 OGDEN DRIVE BURLINGAME, CA 94010

Phone:

650-292-9100 650-552-9012

Fax: Email:

labs@ekiconsult.com

jsu@ekiconsult.com

jdaugherty@ekiconsult.com gbrunst@ekiconsult.com kmitchell@ekiconsult.com rford@ekiconsult.com

FROM:

Richard A. Kagel, Ph.D.

Laboratory Director

SUBJECT:

LABORATORY RESULTS FOR YOUR PROJECT

B20006.00 T7

Enclosed please find K Prime's laboratory reports for the following samples:

 SAMPLE ID
 TYPE
 DATE
 TIME
 KPI LAB #

 TSV01-SHROUD
 AIR
 2/2/2017
 15:26
 151336

The above listed sample group was received on on the chain of custody document.

2/2/2017 and tested as requested

71 37 38 31 74 1170 37 37 37 38 81 8 36 7 110 11.

Please call me if you have any questions or need further information. Thank you for this opportunity to be of service.

K PRIME, INC.

K PRIME PROJECT: 9115

CLIENT PROJECT: B20006.00 T7

METHOD: 1,1-DIFLUOROETHANE

REFERENCE: EPA TO 3 UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH	DATE ANALYZED	MRL	SAMPLE
TSV01-SHROUD	151336	AIR	02/02/2017	012417A1	02/03/2017	10.0	90000

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT NA - NOT APPLICABLE OR AVAILABLE MRL - METHOD REPORTING LIMIT

APPROVED BY:

DATE: 2/9/2017

K PRIME, INC. LABORATORY QC REPORT

METHOD BLANK ID: B012417A1

LAB CONTROL SAMPLE ID: L012417A1 LAB CONTROL DUPLICATE ID: D012417A1

BATCH ID: 012417A1

METHOD: 1,1-DIFLUOROETHANE

SAMPLE TYPE:

AIR

REFERENCE: EPA TO 3

UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME REPORTING SAMPLE LIMIT CONC 1,1-DIFLUOROETHANE 10.0 ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10000	10900	109	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE	DUPLICATE	RPD	LIMITS
	RESULT	RESULT	(PERCENT)	(PERCENT)
1,1-DIFLUOROETHANE	10900	10700	1.85	±30

Erler & Kalinov	vski, Inc.
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CHAIN OF CUSTODY RECORD

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PAGE	OF	1

CONSULTING ENGINEERS A	ND SCIENTIS	STS	1870 Ogden	Drive, Burlin	game CA 94010	PH	IONE: 65	50-292-9	100 F	AX:	650-552-9012	PAGE OF
Project Name: Horton St UST			Project No.	B20006.00	7	T		ES REQ		_	GeoTracker Global ID #:	
Location: Emeryville, CA			Sampled By:	G. Brunst & I	K. Mitchel & R. Ford	Meth	EPA				Revision:	(A, B, C, D, etc.)
Reporting: Electronic Format: EDF	Hard Copy F	ormat: PDF	<u>Laboratory:</u>			Method No.	TO-3		П		Date:	Ву:
EPA Data Report Level: II Please report results to the following people: (1) Data Archive: labs@ekiconsult.com (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@ekiconsult.com (4) Graeme Brunst: gbrunst@ekiconsult.com (5) Kel Mitchell: kmitchell@ekiconsult.com (6) Ryan Ford: rford@ekiconsult.com	com		5	K Prime 3621 Westw Santa Rosa, (707-527-757	ind Blvd. CA 95403	Analyte Group	1,1-Difluoroethane			PLACE ON	EXPECTED	
Field Sample Identification	Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservat		(DFA)			ON HOLD	TURNAROUND TIME	REMARKS / Summa ID
TSVOL-SHROUP	151336	2/2/2017	1526	Air	1 x 1-L summa		X				STD	5-855
									Ш			
									\sqcup			
									4	4		
								-	H			
						-			\vdash	/		
									1			
			ug/m³ on the		e report DFA 🎉 resu	ılts	with 10	ppmv re	portin	g lim	nit.	
Relinguished by:	(Signature/Affil	KI		Date 2/2/17	1550	E	Received by	m	01	1	/T() 2/2	19350
Nemiquisned by:	Signature/Affil	(VTC))	Date 2/2/17	Time 17:48	E	Received by		3	L	pf	1/ 206



ATTACHMENT 2

Borehole Logs

BOR	EHDLE LOC	ATION	T										Bore	hole/Well ID:	TC			BOREHOL	81)	(5)	TOTAL D	14.	51	LOGGE	G. Brunst
	LING COMP	6	are	99	, ,				DRULLE	randon #	Pani	el	Proje	ect: Horton S	t UST			DAY/DATE	STARTED /	7	COMPLE 2/	1/1	7	WEATH	ER.
1900	HS/ ATION CASI	DD(S) & H	+	+1			ger	0'-	-5	FROM	то			Ct Number: B200	06.00 T7			DEPTH TO	WATER	FROM FROM		E (A)(A)	.21	N	leat consent to ground out ace
	K CASING	ASING	1"	_	PVC		etora	tro	1	-0.51 FROM 4.51	14.5	-1	GROUT							FROM		TO		Draw C	NO. OF CO.
,	Sample	Sample	D D		SAMI	PLE	210100		Ì	Name /	7-1.3		0		Gravel		IN SIZE D	Silt	Clay	Other	Mois-		GR SOILS Consist- ency	De	ADD'L DESCRIPTION and NOTES (e.g. secondary color, mottling, gleying, historical mastaining, odors, paleosols, plant mati, contacts, bed
	Type (see notes)	ple interval	Recovery	Blows	MVO	Time	Sample	ID	FIII7	Prelim Strat Unit	Graphic Log	Cons		Munsell Color Code	C M %	C M F	%	%	%	%	D M W	L M H	VS S F H VH	Depth (ft)	details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
Ī													0			Ì								0_	9:20 Start
										ATB Baserock			3 3 5 5		M	c					M			3-	Auguring through backfilled excavation from 0-9.5 bgs.
													6											6-	no staining!
													8											8	no staining! no odor

Bor	ehole/	Well II	D: -	TC			Pr	oject: Horton St	UST			Project I	Number:	B20006.0	0 T7							Page 2 of 2
T	14		_	SA	MPLE					1 - 1			-	GRAIN SIZE D	ISTRIBU	TION			FINE	GR SOILS		ADD'L DESCRIPTION and NOTES
Depth (ft)	Sample Type (see notes)	Sample Interv	Recovery	Blows	Tim	e Sample ID	FIII?	Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	Munsell Color Code	Gravel Fraction C M %	Sand Fraction C M %	Silt	Clay	Other	Mois- ture D M	Plas- ticity L M H	VS S F H VH	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat'l: staining, odors, paleosols, plant mat'l; contacts, beddin details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
		1 1 1	1							1 1 1			F	I F				, w	I I	VH		
9-								AB Baserock			9.	2.5 YR 4/3									9-	
10-											10-							W			10-	T. L. doining at
				1.5		-		Silter Sande Waranel	SM				M C	F		-		-	1	F		Dark staining at bottom of backfill has odor
11-	nl	1	4	0.4	1		+	7 graver		4	-11.	-	0		_	-		W	L		-11-	
				0.0	5							DYRYA	M	F					M	F		
12-				0.0				clayer	SC		12-							M			12-	
	nL			D.	2			clayers Sond w/gravel	30													
13-				0.	d			/ U			13-							W			13.	
13.				0.0	>					Ш	,,,											
	nL			0.0						Ш	14		M					W		F	14-	
14-			1	0.	1/0	TC-4.5					14										1,4	Water sample from
15-									TD		15										15	Water Sample from 4.5-14.5 pt 69.5 No sheen observed
16-											16										16	
				+																		
17-											17										17	
18											18										18	

BOF	EHOLE LOCA	TION	TA	1							Bore	hole/Well ID:	TN				8	(5)	TOTAL DE	15.	51	LOGGE	G. Brunst
	LING COMPA	9	TEG	19			P	Tanalan +	Danie	2	Proje	ct: Horton S	t UST			2/1	1/3		2/	1//	7	WEATH	ŒR.
ISCI	HSF ATION CASIN	+ +	H	and	Aug	er 0'-	5	FROM	TO .		SIZE & TY	et Number: B2000	06.00 T7		P	EPTH TO S	WATER	FROM		TO TO		N	eat cement to ground surface
	NK CASING	SING	10	PV		er forate	اء	0-51 FROM 5-51	5.5	1	GROUT							FROM		10		SAMPL	ING METHIOD NOTES
De	Sample	Samp	D 0	SAM	PLE			Name /		Well	Dej	Munsell Color	Gravel Fraction	GRAIN Sa Frac	nd	STRIBU	Clay	Other	Mois- ture		GR SOILS Consist- ency	Dep	ADD'L DESCRIPTION and NOTES (e.g. secondary color, mottling, gleying, historical mat'ls staining, odors, paleosols, plant mat'l, contacts, beddin
Depth (ft)	Type (see notes)	Sample Interval	Recovery	OVM	Time	Sample ID	FIII?	Prelim Strat Unit	Graphic Log	Cons	t (#)	Code	C M %	M F	%	2/2	%	%	M W	M H	VS S F H VH	Depth (ft)	details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
0		1	y ¹⁰			Asphalt					0,			H			+	F					Asphalt ; 11" thick
1-	HA						X	Sand Wagravel	SW		2	104R3/4	С	MU								2-	
	АН																		H				
3-	HA			0.0				clay	CL		3	2.54		F					M	N	VS	-	Bay much
4-	AH			0.0				Sandy			4	10YR3/1	м 10									4-	
6-	nL	2	131	0.0				Sandy	CL			107R3/2		F					M	L	F	6-	
				0.0			-			1													
7- R	nL	2	j 15	0.0				siltary	CL		7	10 YR 3/2	F<5						M	M	Н	7-	some grovel up to 5 mm. no staining

Bore	ehole/V	Vell I	D:	TN			Pre	oject: Horton St	UST			Project !	Number:	B20006.0	00 T7							Page 2 of
T			-	SAME	LE					1				GRAIN SIZE D	DISTRIBL	ITION		Mala	FINE	GR SOILS		ADD'L DESCRIPTION and NOTES
Depth (ft)	Sample Type (see notes)	Sample Interva	Recovery	OVM	Time	Sample ID	FIII?	Name / Prelim Strat Unit	Graphic Log	Well	Depth (ft)	Munsell Color Code	Gravel Fraction C M %	Sand Fraction C M %	Silt	Clay	Other	D M	ticity L M	Consist- ency VS S F H	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat's staining, odors, paleosols, plant mat'l, contacts, beddir details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
1		1	1							0.7.7	-		F	F				W.	Н	VH		
8				0.0							8	10 YR 3/2									8	
9	nL	1	1911	0.1				Sandy	CL		9.	104R4/4		F				M	M	Н	9.	gleying gley 15/104
				0.0									M 10									medium gravels
1				0.0						Ш												
10-	nL	1	2111	0.0				sandy	a		10-			F				M	M	Н	10-	gleying
1	112			0.0				class	00					1		1		101	1-1	13	1	2.0.2
11-			1				+				11-										11-	
+			//	0.0	-		+	Sandal					AA	~						. A		
12-	nL	1	21"	0.0			+	Sandy Clay w/gravel	CL	Ш	12 -		M15	t				M	W	H	12-	medium gravels:
1				0,0			\perp	4,9,000														moning, greying
13-	-			0,0							13-										13-	
	nL	1	9 11	6.2				Sand w/	SW			104R4/6						M	L	5		Sandy gravel lens gleging stops
]				0.0				3			.,		М	#							14	gleging stops
14-		П		0,0			П	s:lta			14.											
1	nL	,	911	0.0				silty sand w/clay	SMI				М	F				W	M	F		
15-				0,0	1415	TN-55-	-	my cing	SC		15-										15-	Water Sample from
1									10													5.5-15,5 ftbgs
16-											16-										16-	5.5-15,5 ft bgs No sheen or odors observed
17-											17-										17-	TO at 1200pm
-																					1	
18											18										18	

CKI

B	REHOLE LOCA	TION	TS	2						1	Bore	hole/Well ID:	TS			E STARTED	(5)	101AL D	13	5		KCM
Di	BLLING COMPA	NY	Gre					DERAMETERIS)		-	Proje	ect: Horton S	t UST			31 DWATER		COMPLE	Z/	(WEAT	
D	IILLING METHO	CISIS RIGIS			01-5	+ HBA		SER KILLING		F	Projec	ct Number: B200	06.00 T7		DEPTH 3	D WATER	INITIAL		FINAL	5.3"	NETT.	ent cerent to ground surface
15	OLATION CASI	AB.	PO	0	0			FROM	10	S	SIZE & TY	Sand	Dack					5 '	TO	51	1	ter augering out Send +
8	ANK CASING			100)vC			FROM	5		SEAL	Benton		hips			FROM	5'	10	1,	SAMPL	bentanite.
P	REORATED CA	SING			Porfice)	4 PVC		FROM	15		GROUT	1200					FROM		TD:			
		to l	-	SAMP	LE					Γ,			Gravel	GRAIN SIZE	DISTRIB	IUTION		Mois-	FINE Plas-	GR SOILS Consist-		ADD'L DESCRIPTION and NOTES (e.g. secondary color, mottling, gleying, historical mat'ls
Depth (ft)	Sample Type	Recovery	Blows	MAO	Time	Sample ID	FIII?	Name / Prelim Strat Unit	Graphic	Well		Munsell Color	Fraction	Fraction	Silt	Clay	Other		ticity	ency	Depth (ft)	staining, odors, paleosols, plant mat'l, contacts, bedding details, fractures, coarse clast lithology,
h (ft)	(see notes)	Recovery Sample Interval	, s	3	Time	Completion 15	17		Log	Cons			M %	C M %	%	%	%	M W	M H	VS S F H VH	(f)	weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
0			T								-0										۱ ،	
				-			-	Asphalt			-			-								
1	2"316	-	1	D				Gravelw	6M		1	25Y				-	-	-			1.	
	нА			0			X	Sand	G-M			3/1	50	50				M				
	5,27			0				Clayeysite	SCI		2	IDYR			30	25			M	F	2.	Possible fill
2	HA			0				Sand	SM-	-	1	2/1										
	2"55L			0																5	1	
3			-					colo			3	1			2			+		1	3.	
	L(A		1	0	1/31/17	TS-3540	-	Silty	CL		-	-	1		30			-	H			Soil sample
4	21/356			0	1120	10 50 10	L	1			4	1		1	-	-		1	-	-	4	Gloging E/56
	HA			0							16									H		Aburdent gleging 4156
	2'11			0							1							11			5	
5				0				Clayey	LL/	Ш	5	IDYR				25			M	F	"	Gleying 6/586
			7					Sit	ML			5/4				1			1, ,	1		1
6	hl	2	-	1.0							6	;	1					1	1		6	
	-			0			-					-				-	-					Aburdant gleying 7
7				02							7	7				-		-	M	5	7	6/586
	he	21	2	43	1/31/17	-			1													Soilsample
8				23	71.50(1)	15-7580					,										8	

Notes: (HA: hand augered) (nL: split spoon sampler w/ no liners) (x"ssL: x-inch diameter stainless steel liners) (EC: Enviro-Core with butyrate plastic liner) (GP: GeoProbe with butyrate plastic liner) (che: chemical analysis) (enc: encore sample) (phy: physical-properties analysis)

Bor	ehole/\	Well	ID:	T	5			Pro	oject: Horton St	UST			Project	Number:	B20006.	00 T7							Page 2 of 2
					SAMP	LE		11							GRAIN SIZE	DISTRIBL	JTION	_		FINE	GR SOILS		ADD'L DESCRIPTION and NOTES
Depth (ft)	Sample Type (see notes)	Sample Interval	Recovery	Blows	MVO	Time	Sample ID	FIII?	Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	Munsell Color Code	Gravel Fraction C M %	Sand Fraction C M %	Silt %	Clay	Other	D M	ticity L M	Consist- ency VS S F H	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat staining, odors, paleosols, plant mat'l, contacts, beddi details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
		里												F	F				W	Н	VH	-	
8					23							8										8	
1	nL		205		4.1			П				1										1	
9-			200		1.1			\dagger			Ш	9-	1048								_	9.	Small black specks
+			-					+			Ш	-	1/6				-	-	-		F		
0-					0.5			\mathbb{H}	2'11 -1		H	10-					-					10-	<u>v</u>
	nL		20.5		1.6				Silty, changer Sevel	SCI	H					40	20			L			
1					0.4				CENT	SM	111	11-									1-1	11.	
					3.2							"										"	
1	nL		22		0.2			П			Ш												
2-	11.00				1.1			Ħ			Ш	12-									5	12.	
+				-				Н			Ш	-											
3-					0,8			+1			H	13-								-	F	13-	
-	NL		185		0			\mathbb{H}			Ш												
4					0			Ш			Ш	14-									H	14	
	NL		11.5		0.1	21/12	7				Ш												
			- 1		0	930	TS-5-15				Ш												Small black speeks
5-		T.	0					П				15-										15.	Small black speeks Water sample from 5-15 ft bgs No sheen observed
1								Ħ				-					-					'	No sheen observed
6-								+			Ш	16-					-					16-	
-								\parallel				-		-									TD at 1250 on 1/31
7-								\parallel				17-				-	-					17.	Sample 2/1/17 from
1								Ш															temporary well
8												18										18	
-	Notes:		(HA·h	and a	oered)	(nL: snlit s	spoon sampler w/ no i	iners)	(x"ssL: x-inch diameter:	stainless stee	el liners)	(EC-	Enviro-Core with h	utvrate plastic	liner)								

CKI Pao

	REHOLE LOCA		T51	W							Borel	nole/Well ID:	TSU	N	BOREHOL	SILI	5)	TOTAL DE	PIH	<	LOGGED	KCM
	LLING COMPA		5100	15			R (C)	Man =	Dustin	2	Proje	ct: Horton S	1			STARTED STARTED	17	COMPLET	131	117	WEATHE	ER. J
	LLING METHO	H	SA	OJ.	Har	d Auger o	1-1	EROM	TO	l l		t Number: B200	06.00 T7		DEPTH TID	WATER /	FROM		FINAL	19	NG	at cement to ground
	NK CASING	40		T)		0		FROM	TO		EAL	S		Pack			FROM	<u>s'</u>	10	21	SAMPLE	inface, after augurin ou
PEF	RFORATED CA	VSING .		1"P		() (FROM 1	TO 15	1	ROUT	Be	Abrile	chi	ps		FROM	5	10			Sand + Bentoni+
I			_	SAMI	J.C.	probated		3	15					GRAIN SIZE	DISTRIBU	TION			FINE (GR SOILS		ADD'L DESCRIPTION and NOTES
	Sample Type	Sample Interval	Recovery	MVO	Time	Sample ID	Prel	Name / im Strat Unit	Graphic	Well	Depth (ft)	Munsell Color	Gravel Fraction	Sand Fraction	Silt	Clay	Other	Mois- ture	Plas- ticity	Consist- ency	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat staining, odors, paleosols, plant mat'l, contacts, beddi details, fractures, coarse clast lithology.
	(see notes)	Interval	Na Na	3			3		Log	Cons	(ft)	Code	C M %	C M %	%	%	%	M W	M H	VS S F H VH	(ft)	weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked.
							Ase	shalt														
	7"362			0							1-										1	
1	HA			0			X Sav	dw/	SW			3/1	30					M				
	4" SSL			0			61	an ta				IOYR				25			M	+1		
1	HA			0			100	S.1+	LL/ ML		2-	2/1	£ .								2-	Odor
ŀ	2'566								PALE		1							8.1			1	ali la evez
	HA			0			1101				3-					35					3-	gleying 5/56
1	2556			0	1/30/1	TSW-3.5.4.0					-		-								1	2-1- 10
1	HA	+			1.1						4-										4-	Soilsample
	11/2		+	0						Ш	-							-			1	
	_		-	0							5-	n = \ .									5-	Abrancia La Clarica
1	1			0			-					254	-	-		30			-		4	Abundant Guying 4156
1	nt	12	.5	0							6-	,									6-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
-		-		0	1/30/1																	
			1	0	1445	TSW-6.5-70					7-								14	F	7-	Soilsample
1	nL	ri	3.5	0								254				20						
1			1 3	0							8	5/4						1				

Bor	ehole/V	Vell	ID:	TIS	(1			Pro	ject: Horton St	UST			Project	Numbe	r:	B20006.0	00 T7							Page 2 of 2
T				100	AMPLE			11								GRAIN SIZE	ISTRIBU	ITION	_		FINE	GR SOILS		ADD'L DESCRIPTION and NOTES
Der	Sample Type	Sampl	Rec					7	Name /	Graphic	Well	Dep	Munsell Color	Grav Fracti		Sand Fraction	Silt	Clay	Other	Mois- ture	Plas- ticity	Consist- ency	Dep	(e.g. secondary color, mottling, gleying, historical mat's staining, odors, paleosols, plant mat'l, contacts, beddir
Depth (ft)	(see notes)	Sample Interval	Recovery	Blows	Tir	me	Sample ID	FIII?	Prelim Strat Unit	Log	Const	Depth (ft)	Code	C M F	%	C M %	%	%	%	D M W	L M H	VS S F H VH	Depth (ft)	details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
87					1			T		1	111	8				- 1							8	
-			-1	0	>	4		Н				-		H			-							
9-	nL.		20	(Ш				9-										F	9-	
				1)						Ш													
1				1							Ш											14		
0-	-T		21	1				П				10-										,	10-	
1	nL		61		C	-		11				1											-	
1		-		0		+		H				11-		+	-								11-	
-			1	1	2	4		Ш				-		-	4	-1			-	-				
	nL		19	()			Щ				12-											12-	
				(5																			
				1	7																	F		
3-	nL		20		5			T	Sand w/	SCI		13-					35	12					13-	Large grave, up to 2"
1	ML							Н	Sand w/	ML		1											1	
+),3	1	-	+	5,1+			14-											14-	
-	nc.		12	(0,6 1/3	1/10	T5W-5-15	Н				-				-			-		-		-	
5-				0	1.6 9		TSW-5-15	Ц				15-											15-	Water sample
		TD					TSW-5-15 DUP				Ш													Water sample from 5-15 ft bgs No sheen observed
																								TD at 1300 1/30/17 Sample on 1/31/17 from temporary well
6-						1		П				16-											16-	Samule on //31/12
1				1		1		П		1		1											1	from temporary well
7-			+		+	+		+				17-											17-	
-				-		-		\parallel				-				-	-		-		-			
8												18											18	

(GP: GeoProbe with butyrate plastic liner) (che: chemical analysis) (enc: encore sample) (phy: physical-properties analysis)

BO	REHOLE LOC	CATION	+	SXC	10						1	Bore	hole/Well ID:	TSX	Ø			BUNETER	Sy	TOTAL DE	155	5	LOGGE	KCM
	SLING COMP	/	9					ORKLI Q	PANDA 1 JE	214.	1	Proje	ct: Horton S		-		DEPTH TO			COMPLET	ED	2	WEATH	
	RLING METH	+	1S	1	- 1	land	Auge of	-	FROM	10	- 1		t Number: B2000	96.00 T7			DEPTH TO	WAITER	FROM.		TO.	1.51	1	Vertained to grand Surface
	NIK CASING	acen.					11,519		FROM	5.	5	EAL							FROM		TO.	_1	SAMPL	ING METHOD NOTES
PE	RE CHATELL	ASINO			SAMPL	17	VE Posto	to		115.	51				GRAII	N SIZE D	ISTRIBU	TION				GR SOILS		ADD'L DESCRIPTION and NOTES
D-11-141	Sample Type	Sample	Rec				2 - 1/12	2	Name /	Graphic	Well	Dept	Munsell Color	Gravel Fraction		and action	Silt	Clay	Other	Mois- ture	Plas- ticity	Consist- ency	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat staining, odors, paleosols, plant mat'i, contacts, bedd details, fractures, coarse clast lithology,
	(see notes)	Sample Interval	Recovery	Blows	MVO	Time	Sample ID	FIII?	Prelim Strat Unit	Log	Cons	Depth (ft)	Code	C M %	M F	%	%	%	0/	M W	L M H	VS S F H VH	h (ft)	weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
7		T										0.											0_	
-	- ()		Н	4	1				Asphalt						Н					-			-	
	- A	1	-		H			v	Sandy			1-	10423/2		Н	35				M			1-	
	2551	+	1	0	5			V	Gravel Gravelly,				10425/6	30						1			1	Eilien- Rich Sonel
			1		5			1	sord			2.	542.5/		H								2-	
	7"511			- 1	0				Clayeysil	ML			2.00		M			20			M	F		
	MA				5			1 1	Silty Clay	41	Ш	3.					30					H	3-	Gleging 4110 BE
	24551					945	75×01-		6,1 10-1	ML		4										73.	1	So, Isample
	MA				0							4											1	
	2'550			(0							5											5-	
					5										П			Ш						
			0		0							6											6-	
					0								1											About his war
				0	1.							7	1048				40						7.	Odorous. Aburdatgleging 4156 Black Marks to 9'bys
			20	1.	4		TSX01-75-																	Black Marks to 9' bys
				5	15	950	80					8					30				H	F	8	Soilsample

Bore	ehole/V	Vell ID	: -	TS	XT	81		Pre	oject: Horton St	UST			Project I	Number:	B20006.	00 T7							Page 2 of 2
1		-	_		SAMPL	E									GRAIN SIZE	DISTRIB	JTION	1	Mois-	FINE	GR SOILS		ADD'L DESCRIPTION and NOTES
Depth (ft)	Sample Type (see notes)	Sample Interval	0	Blows	MVO	Time	Sample ID	FIII?	Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	Munsell Color Code	Gravel Fraction C M %	Sand Fraction C M %	Silt	Clay	Other	ture D M W	Plas- ticity L M H	VS S F H VH	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat staining, odors, paleosols, plant mat'l, contacts, beddi details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
8			Ì	6	1				Sandy, Clayey Silt	UML	T THE STATE OF THE	8			35		25					8	
9-		2	1.15	1	0.8				Si Pt	11110		9-									5	9-	
1				(6												Ш			M			
0				1	.0						Ш	10-								L	+1	10-	
	P. 3			(17.																		Minorghying shoy
1-		2	15		2.4							11-										11-	No odes
]				1	1.0				Silty,	SM1 SC		1,7				30	20						
2-	9	18	3,5)				Sand	000		12-	INVO							M		12-	
-	_		1	1	0								10YR								F		
3-				1	0				Silty Sand	SM		13-				30				E.		13-	
1		1	0		0				Clarry	50							30					-	
4				-	5			H	Ocard			14-				-						14-	
1		10	1	-	5							-											
15-			1			1330	T5X01- 515+15,5					15-										1 1	TO No sheen observed
6-												16-										16-	TO at 910 am
7-			-									17-										17-	
18										. 7		18										18	

BUNE	HOLE LOCAT	NON -	TS	XD	X						Bore	hole/Well ID:	TSX	ØI	×		STARTED			5.5	1	LOGGE	KCM
DRILL	ING COMPA	1	one.					Yandon + JI	216		Proje	ct: Horton S	t UST				L/2 WATER		COMPLET	2/2		WEATH	ER:
	ING METHOD	HIS	D ()	1	land	Auge o	-5	FROM	10	- 1		t Number: B2000	06.00 T7			DEPTH TO	WATER	FROM		TO TO	150,	WELL	Sufferentiation to ground
	K CASING ORATED CAS	SING			1" ?	VC DOLLE		FROM O. 5	10 5.5 10 15.5	-	SEAL GROUT							FROM		10		SAMPL	ING METHOD NOTES
000	Sample Type	Rec	<u>a</u>	SAMP	LE			Name /	Graphic	Well	Dep	Munsell Color	Gravel Fraction	1	IN SIZE D Sand action	Silt	Clay	Other	Mois- ture		GR SOILS Consist- ency	Dep	ADD'L DESCRIPTION and NOTES (e.g. secondary color, mottling, gleying, historical mat'l staining, odors, paleosols, plant mat'i, contacts, beddin
7	(see notes)	Recovery Sample Interval	Blows	MAO	Time	Sample ID	FIII?	Prelim Strat Unit	Log	Cons		Code	C M %	C M F	%	%	%	%	M W	M H	VS S F H VH	Depth (ft)	details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
Ī	X							Asphall+														1	
1	*			0				Constitute			1.											1-	
2-	HA			0			χ	Gravel w/	GM		2.				25	25			M			2-	Minor gleying 5/56
1	34		_	0				Sand														-	10R 3/6
3+	LIA 215SL			0				Silty	CL/ML		3-					40				M	5	3-	5-1 10
1	414			0	1340	TSX01X-3,5- 4,0		J			4.									H	F	4-	Soilsample 5/56 60% gluyer to E'bgs
	1556			0																		-	3 0
j -	HA			0 0				Claying			5-						35			M	5	5-	No odar
6-	nL	201	5	0				5.74	MAL		6-										0	6-	
-				0				SiltySeal	SM							35				2	-1-		Cley 5/10 64
7-	L. V	กงร		0				Silty Sand Clayer Sand	SM/		7.					5	0					7-	Abundant aley 5/10B
	nL.	(N)		3.2	1350	TSXOIX-		0 7 14															Abundanigly 5/108 Odor /Soil sample

Bor	ehole/\	Well	ID: .	TK	×a	1 ×		Pr	oject: Horton St	UST			Project	Number:	В	20006.0	0 T7							Page 2 of _ 2_
				10	SAME	PLE		1							GR	AIN SIZE D	ISTRIBL	TION			FINE	GR SOILS		ADD'L DESCRIPTION and NOTES
Depth (ft)	Sample Type	Sample Interv	Recovery	Blows	MVO	Time	Sample ID	FIII?	Name / Prelim Strat Unit	Graphic Log	Well	Depth (ft)	Munsell Color Code	Gravel Fraction		Sand Fraction	Silt	Clay	Other		ticity	Consist- ency	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat'ls staining, odors, paleosols, plant mat'l, contacts, beddin details, fractures, coarse clast lithology,
(ft)	(see notes)	nterval	'ery	Vis.	S					Log	Const	(ft)	Code	C M %	N F	1 %	%	%	%	M W	M H	VS S F H VH	ŧ	weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
8				_					Silly		Ш	8		18-			-				6		8	MOOGOE
9-	hL			0					Silly Clayer Sand	SM		9-					-1	0				Ī	9.	Mina igliging to 14 ogs
				6							Ш													
				06											Т									
10-	nL		21	0								10-											10-	
			4.	0											Ť								1	
11-		1		0					Silty Senel	GM		11-		20			35						11-	
	hL		205	0				H	w/Gracel			-		20	,								1	
12-	MIT		,-4	0	Ħ			H				12-			+	1							12-	
															+	-			1					
13-	nL		113	0				1	Sandy Grand	511/	Ш	13-			+	-							13.	Black spees No odor
	*,-		14	0		-		-	0			-			+	35	13		-	-				,
14-				0				-		GP		14-		-	+	35				W			14	
	nL			0		1//10	TSXOIX-					-			-	25								
15-				0		1713	T5X01X-					15-								1			15-	water sample from 5.5-15.5 ft bas TD No sheep Observed
-												16-											16-	TD No sheen
16-												10-											10.	TD at 1335
17-												17-			+				-				17-	
-												-		-	-									
18		1 1						-			LIT	18							1				18	

	HOLE LOCA		T	SX	02						E	Bore	hole/Well ID:	TSX	\$2		4	3 II	5)	TOTAL DE	15	1	LOGG	G. Brunst
DRILL	ING COMPA	W G						BRIL	randon 4	Jose	F	roje	ct: Horton S	t UST			DAY/DATE	TARTED	7	COMPLET		17	WEAT	HER
	H C	SA	G USED	1	lan	ol A	ugar D'	_		10		-	t Number: B2000	6.00 T7			рертн то і	WATER	FROM		9.°	81		eat cement to ground gurface
BLAN	K CASING		I	11	PV				O I	51	S	EAL							FROM		TO		SAMP	LING METHOD NOTES
PERF	DRATED CA	SING	1	n	PVC		erforat	20	FROM	151	G	ROUT							FROM		10			
F		s l	1		SAMP			-						Gravel		SIZE D	ISTRIBU			Mois-		GR SOILS Consist-		ADD'L DESCRIPTION and NOTES (e.g. secondary color, mottling, gleying, historical mat'ls
	Type (see	Sample Interv	Recovery	Blows	MVO	Time	Sample ID	FIII?	Name / Prelim Strat Unit	Graphic Log	Well	Depth (ft)	Munsell Color Code	Fraction	Fra	tion	Silt	Clay	Other	ture	ticity	ency VS S	Depth (ft)	staining, odors, paleosols, plant mat'l, contacts, beddin details, fractures, coarse clast lithology,
	notes)	torval	રૈ	u										C M %	M F	%	%	%	%	M W	M H	F H VH		weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
									Asplatt			0											0.	12" threte asphult
+	HA Z ^{II} SSL				0.0			7	gravelly 3 and	SW		-1.	104R 3/1	С	MC					М	L			graved of cobbbes up to 2.5"
4 -	1A 155L				0.0				sandy	CL			10/R 2/1		F					M	M	5		
-	HA 115sl				0-0	110	TSX02-35-					3-								M	W	F	3-	gleying: 9/104/50,1
7	HA				0-0	1.	7	t				4-			Ħ					M	M	F	4-	0 01 11011311
+	11552				0.0							5.								150	101		5.	
	nl		-		0.0				Silfy	CL		6-	104R4/4		F					M	H	Н	6-	
-	_	-	-		0.0															М	H	H		
,	nL				0.0	1/20	TSX02-7.58	-	sandy clay	CL		7.			F					M	Н	F	7.	Soll Sample

Bore	ehole/V	Vell ID	:	ISXX	52		Pre	oject: Horton St	UST			Project I	Number:	B20006.0	00 T7							Page 2 of
1			_	SAMP	LE		\Box							GRAIN SIZE D	ISTRIBU	TION			FINE (GR SOILS		ADD'L DESCRIPTION and NOTES
Depth (ft)	Sample Type (see notes)	Sample Interval		OVM	Time	Sample ID	FIII?	Name / Prelim Strat Unit	Graphic Log	Well	Depth (ft)	Munsell Color Code	Gravel Fraction C M %	Sand Fraction C M %	Silt	Clay	Other	Mois- ture D M	Plas- ticity L M H	Consist- ency VS S F H VH	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat' staining, odors, paleosols, plant mat'l, contacts, beddi details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
8		Ī	Ť	0.0			Ī	siltyand	SM	111	8			F				M	1	S	8	no odor ; no staining
+	nL	2	10	0.0			T	silty	CL	Ħ	-			1				M	H	F	_	Minor gleying
9-		F	t	0.0				clay			9.	10 YR 5/6									9-	
1		\dagger	+	0.0				silty	SM		T							m	M	F		
0-	nL	19	8	0.0				sand	0.,		10-										10-	gravel content
				0.0																	11-	increasing with depth.
1-				0.0							111	104R4/6	M	F				М	M	H	11.	depth-
2	nL	2	B	0.0							12-										12-	
				0.0						Ш			M	F				M	L	F		- 1- 1-
3-											13-										13-	(ren)
-	nL	0	0																		-	No recovers
4		-	fr	6.0	_		H	Silfy	GM		14.		(M		-	-				14-	
+	nl	19		0.0	1200	15×02-5		Silty	SM		-			<u></u>	-			M	5	VS		water sample from
5-		T	1		10	- 13		Sanor	TO		15										-16-	5-15- Et bas No sheen observey
6-											16										16-	That 1040am
7-		-		-					1		17-										17-	
8			1								18										18	

(GP: GeoProbe with butyrate plastic liner) (che: chemical analysis) (enc: encore sample) (phy: physical-properties analysis)

CKI

Page 1 of Z

st	G. Brunst	LOGGED			TOTAL DE	5)	811	BOREHOLE)	TU		nole/Well ID:	orel	В)	TU	CATION	OREHOLE LO	В
	ER:	WEATHE	50	1/2	COMPLET	O	STARTED	DAY/DATE		T	st US	ct: Horton S	roje	n P	Dusti	randon + 7	B			q	ireg	6	RILLING COM	
ment to	reat come fround su	N		TO TO	31	FROM	WATER	DEPTH TO		T7	06,00	Number: B2000		P	Τα			er 0'-5	Aug	and	- LUSED	+	HSA COLATION CAS	
	NG МЕТНОО NOTES:	SAMPLÍN		70 10		FROM							OUT .	100	10 41 10 14'	-11	+	erforateal	P	PVC	$\frac{1}{n}$		LANK CASING	
SCRIPTION and NOTES , mottling, gleying, historical mat'is, sols, plant mat'i, contacts, bedding tres, coarse clast lithology, tion; secondary porosity, drilling of rates, slough / reworked	(e.g. secondary color, mott staining, odors, paleosols, details, fractures, o weathering/alteration; s		Consist- ency VS S F H	Plas- ticity L M	Mois- ture D M	Other	Clay	Silt %	Sand Fraction C M %	ravel action		Munsell Color Code	Depth (ft)	Well Const	Graphic Log	Name / Prelim Strat Unit	FIII?	Sample ID	Time	SAMP	Recovery	Sample Interv	Sample Type (see notes)	Depth (ft)
9.75" diam. 5" thick	Asphalt (0_	VH	н	W								0_		- 3	Asphalt								0.
	gravel up fines inco with de				M				M C		MC	10 YR3/3	2-		SW	Sand W/gravel	У			0.0			211 551	1.
ay with	Silly clay	3-	F	M	M				F			2.51	3-		CL	Siltary				0.0			HA	3-
	soil sample		F	М	М				F 25			10 YR 3/2	4-					TW-3:5-470	1230	0.0			Z _{SS} 1	4-
		5-											5-								0"		HA	5-
op to 5 mm distinct profiling	0.	6-	F	L	M				F	10	F	5/104 5/104	6-		CL	sandy				0.0	9#	1	nL	6-
odor/soil	no staining	7-											7-	4 11 11 11 11 11 11 11 11 11 11 11 11 11				TW-6.5-7.0	1245	0-0	4			7-
).	gleying	8	H	L	M				F			10485/6	8		CL	siltyclay					2"		nL	8
2 '	no stains	7-	H	L	M					e plastic l	outyrate	Enviro-Core with bu			stainless stee	Silty clay (x"ssL: x-inch diameter s nalysis) (enc: encore sa	ers)		(nL: split). Y		(1)	nL Notes:	7-

Во	rehole/\	Well ID	:	M			Pro	oject: Horton St	UST			Project	Nun	ber:	B20006.0	00 T7							Page 2 of 2
				SAMP	LE	T	11								GRAIN SIZE	ISTRIBL	TION	_		FINE	GR SOILS		ADD'L DESCRIPTION and NOTES
Depth (ft)	Sample Type (see notes)	Sample Interval	0	OVM	Time	Sample ID	FIII?	Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	Munsell Color Code		ravel action %	Sand Fraction C M % F	Silt	Clay	Other %	Mois- ture D M W	Plas- ticity L M H	VS S F H VH	Depth (ft)	(e.g. secondary color, mottling, gleying, historical mat'l staining, odors, paleosols, plant mat'l, contacts, beddir details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked
8			1				TT			ÍΤ	8											8	
				0.0			11	0.11	SM			1					ш.						
9-	nL	15	2	0.0				Silly	000		9.	10/R 5/6	F	5	F				M	L	F	9.	
				6.0																			
10-		0	11							Ш	10-											10-	
i	nL						П				-		H		-							1	
11-		+	+	4.0	_	-	\forall		-	+	-11-		+	-			-			-		-11-	
-			V	6.0		-	-	Sandy	CL			-1					-					-	
12-	nL	10	6	0.0			Н	Cian		Ш	12-	104R 5/6	F	5	F				M	W	H	12-	Some gracel up to
				0.0						Ш													
13-				0.0							13-								W			13-	
13-	nL	2	O ^{El}	0.0				Clayey	SC			104R 5/6	C	10	M								gravel up to 1.5"
1				03	1355	TW-4-14	П	3	~		1											1	Watersamale from
14-		10	+	-	-		Ħ			Ħ	-14-		Н									-14-	Watersample from 4-14 ft bas Nosheen observed
-			+	+			H				-		Н			-						-	
15-			+				H				15-		Н									15-	TO at 12 pm
		-	4				Н															١.	
6-											16-											16-	
17-											17-											17-	
			1				\parallel				-						-					1	
18	-		1					(x"ssL: x-inch diameter	1		18					_						18	



ATTACHMENT 3

FMW Site Shallow Groundwater Well Construction Details and TPH-d and TPH-mo Groundwater Data

TABLE A3-1

Shallow Groundwater Monitoring Well Construction Details
Former Marchant/Whitney Site
5679 Horton Street, Emeryville, California

		Approximate													
		Ground Surface		Total Depth	Well Casing	Total Depth	Isolation Casing			Screen				Screen Slot	Elevation of Top
		Elevation	Drilling	of Boring	Diameter	of Well	Depth (ft	Screened	d Interval	Length	Sand Pad	ck Interval	Sand	Size	of Casing
Well ID	Date Installed	(ft msl)	Method	(ft bgs)	(inches)	(ft bgs)	bgs)	(ft bgs)	(ft msl)	(ft)	(ft bgs)	(ft msl)	Thickness (ft)	(inches)	(ft msl)
Former March	ant/Whitney Sit	е													
FMW03	2/17/2012	13.1	Sonic	18.5	4	17.3	na	7.3 to 17.3	5.8 to -4.2	10	6 to 18.5	7.1 to -5.4	12.5	0.02	12.8
FMW05	2/21/2012	11.7	Sonic	19	4	17.3	na	7.3 to 17.3	4.4 to -5.6	10	6 to 18	5.7 to -6.3	12	0.02	11.4
FMW07	2/19/2012	12.6	Sonic	18.2	4	17.3	na	7.3 to 17.3	5.3 to -4.7	10	6 to 18.4	6.6 to -5.8	12.4	0.02	12.0
FMW11	6/2/2015	12.6	Sonic	18	4	18	na	8 to 18	4.6 to -5.4	10	6.5 to 18	6.1 to -5.4	11.5	0.02	12.1
FMW13	5/27/2015	12.6	Sonic	19	4	19	na	7 to 19	5.6 to -6.4	12	6.5 to 19	6.1 to -6.4	12.5	0.02	12.1
FMW15	5/22/2015	12.6	Sonic	19	4	19	na	7 to 19	5.6 to -6.4	12	6.5 to 19	6.1 to -6.4	12.5	0.02	12.2
FMW17	5/29/2015	12.6	Sonic	19	4	19	na	7 to 19	5.6 to -6.4	12	6.5 to 19	6.1 to -6.4	12.5	0.02	12.4
FMW19	6/30/2015	12.6	HSA	15	4	15	na	7 to 15	5.6 to -2.4	8	6.5 to 15	6.1 to -2.4	8.5	0.02	12.1
FMW21	6/24/2015	12.6	HSA	19	4	19	na	7 to 19	5.6 to -6.4	12	6.5 to 19	6.1 to -6.4	12.5	0.02	12.0
FMW23	6/24/2015	12.6	HSA	17	4	17	na	7 to 17	5.6 to -4.4	10	6.5 to 17	6.1 to -4.4	10.5	0.02	12.1
FMW25	5/28/2015	12.6	Sonic	19	4	19	na	7 to 19	5.6 to -6.4	12	6.5 to 19	6.1 to -6.4	12.5	0.02	12.3
FMW28	6/30/2015	12.6	HSA	15	4	15	na	7 to 15	5.6 to -2.4	8	6.5 to 15	6.1 to -2.4	8.5	0.02	12.2
FMW31	6/24/2015	12.6	HSA	18	4	18	na	8 to 18	4.6 to -5.4	10	7.5 to 18	5.1 to -5.4	10.5	0.02	12.2
FMW34	6/25/2015	12.6	HSA	17	4	17	na	7 to 17	5.6 to -4.4	10	6.5 to 17	6.1 to -4.4	10.5	0.02	12.1
FMW36	6/29/2015	12.6	HSA	17	4	17	na	7 to 17	5.6 to -4.4	10	6.5 to 17	6.1 to -4.4	10.5	0.02	12.1
FMW41	6/29/2015	11.4	HSA	20	4	20	na	8 to 20	3.4 to -8.6	12	7.5 to 20	3.9 to -8.6	12.5	0.02	10.9
FMWOS1	6/25/2015	12.3	HSA	15	2	15	na	5 to 15	7.3 to -2.7	10	4.5 to 15	7.8 to -2.7	10.5	0.02	14.9

Abbreviations:

-- = not applicable

ft = feet

ft bgs = feet below ground surface

ft msl = feet above mean sea level

HSA = hollow stem auger

TABLE A3-2 Summary of Analytical Results for TPH-d and TPH-mo in Shallow Groundwater Monitoring Wells

Former Marchant/Whitney Site 5679 Horton Street, Emeryville, California

					Analytical F	Results (a,b)
					TPH	(ug/L)
Well ID	Sample ID	Sample Date	Well Screen Interval (ft bgs)	Well Screen Interval (ft msl)	TPH-diesel	TPH-motor oil
	chant/Whitne		(it bgs)	(11 11131)		
FMW03	FMW03	11/10/2016	7.3 to 17.3	5.8 to -4.2	<50	<50
FMW05	FMW05	11/21/2016	7.3 to 17.3	4.4 to -5.6	63	<50
FMW07	FMW07	11/18/2016	7.3 to 17.3	5.3 to -4.7	<50	<50
FMW11	FMW11	11/22/2016	8 to 18	4.6 to -5.4	265	<50
FMW13	FMW13	11/16/2016	7 to 19	5.6 to -6.4	<50	<50
FMW15	FMW15	11/18/2016	7 to 19	5.6 to -6.4	52	<50
FMW17	FMW17	11/21/2016	7 to 19	5.6 to -6.4	75	<50
FMW19	FMW19	11/14/2016	7 to 15	5.6 to -2.4	<50	<50
FMW21	FMW21	11/17/2016	7 to 19	5.6 to -6.4	59	<50
FMW23	FMW23	11/14/2016	7 to 17	5.6 to -4.4	<50	<50
FMW25	FMW25	11/21/2016	7 to 19	5.6 to -6.4	102	<50
FMW28	FMW28	11/17/2016	7 to 15	5.6 to -2.4	89	<50
FMW31	FMW31	11/16/2016	8 to 18	4.6 to -5.4	<50	<50
FMW34	FMW34	11/16/2016	7 to 17	5.6 to -4.4	90	<50
FMW36	FMW36	11/15/2016	7 to 17	5.6 to -4.4	<50	<50
FMW41	FMW41	11/10/2016	8 to 20	3.4 to -8.6	77	62
FMWOS1	FMWOS1	11/11/2016	5 to 15	7.3 to -2.7	<50	<50
				MCLs	na	50
		F	RWQCB ESL -	Comm./Ind. (c)	100	100

Abbreviations:

<0.5 = Not detected above the stated laboratory reporting limit

ESL = environmental screening level

ft bgs = feet below ground surface

ft msl = feet above mean sea level

MCLs = California Department of Public Health Drinking Water Maximum Contaminant Levels

na = not available

RWQCB - Regional Water Quality Control Board, San Francisco Bay Region

TPH = Total Petroleum Hydrocarbons

ug/L = micrograms per liter

VOCs = Volatile Organic Compounds

Notes:

- (a) Analyses were performed by K-Prime, Inc., Santa Rosa using EPA Method 8015B for TPH-d and TPH-mo.
- (b) Concentrations detected above the screening criteria are shown in **bold** font.
- (c) Selected screening levels are the most stringent ESLs found in Tables GW-1 through GW-5
- (RWQCB, 2016), excluding ESLs based on human health risk based only, aquatic receptors, shallo groundwater exposure, deep groundwater residential exposure, deep groundwater commercial/indu sand scenario, and protection of nondrinking water.

References:

- (1) CDPH, 2015. *Drinking Water Maximum Contaminant Levels*, California Department of Public Health, September 2015.
- (2) RWQCB, 2016. ESLs from User's Guide: Derivation and Application of Environmental Screenin Levels (ESLs), Interim Final 2016, San Francisco Bay Regional Water Quality Control Board, February 2016, Revision 3.