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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

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 tert-butyl 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.

- Soil: 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:
 - 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).
 - TPH: 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).
- Soil Vapor: 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.

- Duplicate: 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).
- **Trip Blanks:** 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 CRITERIA

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.

Results of Data Gap Investigation
Former Horton Street UST, Emeryville, California
17 March 2017
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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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Attachment 2	Borehole Logs
Attachment 3	FMW Site Shallow Groundwater Well Construction Details and TPH-d and TPH-mo Groundwater Data

TABLE 1
Summary of Analytical Results for UST Liquid Contents Sample
Former Horton Street UST
5679 Horton Street, Emeryville, California

Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Analytical Results in mg/kg (a)(b)																	
					TPH			VOCs														
					TPH-g	TPH-d	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

Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Analytical Results in mg/kg dry weight (a)(b)								
				TPH			Metals					
				TPH-g	TPH-d	TPH-mo	Cadmium	Chromium	Lead	Nickel	Zinc	
UST Piping-related Samples (c)												
HUST -PPNG	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	4.92	225 (AC)	330	3.16	31.1	46.1	47.6	97.1	
	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 Sidewall Samples												
HUST-SW	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-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 Floor Samples												
HUST-F	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-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	--	--	--	--	--	
	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	--	--	--	--	--	
	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	--	--	--	--	--	
	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	--	--	--	--	--	
	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	--	--	--	--	--	
	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	--	--	--	--	--	
RWQCB ESL - Comm./Ind. - Direct Exposure (d)				2,800	1,100	5,100	43	<i>na</i>	160	86	110,000	
U.S. EPA RSL - Ind. (e)				<i>na</i>	<i>na</i>	<i>na</i>	980	<i>na</i>	800	22,000	350,000	
DTSC HERO HHRA Note 3 - Comm./Ind. (f)				<i>na</i>	<i>na</i>	<i>na</i>	7.3	<i>na</i>	320	3,100	<i>na</i>	

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.

References

(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

Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Analytical Results in mg/kg dry weight (a)(b)													PCBs			
				VOCs														PCBs		
				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 Samples (c)																				
HUST -PPNG	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	ND	0.0278	0.219	ND			
	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	ND	<0.0252	0.0264	ND			
	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 Sidewall Samples																				
HUST-SW	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-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 Floor Samples																				
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			
	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 Gap Investigation																				
TW	TW-3.5-4.0	1/30/2017	3.5 to 4.0	<0.00157	<0.00157	<0.00157	<0.00157	<0.00157	<0.00157	<0.00313	<0.00157	<0.00157	<0.00157	ND	--	--	--			
	TW-6.5-7.0	1/30/2017	6.5 to 7.0	<0.00156	<0.00156	<0.00156	<0.00156	<0.00156	<0.00156	<0.00312	<0.00156	<0.00156	<0.00156	ND	--	--	--			
TSW	TSW-3.5-4.0	1/30/2017	3.5 to 4.0	<0.00169	<0.00169	<0.00169	<0.00169	<0.00169	<0.00169	<0.00339	<0.00169	<0.00169	<0.00169	ND	--	--	--			
	TSW-6.5-7.0	1/30/2017	6.5 to 7.0	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00164	<0.00328	<0.00164	<0.00164	<0.00164	ND	--	--	--			
TSW	TS-3.5-4.0	1/31/2017	3.5 to 4.0	<0.00134	<0.00134	<0.00134	<0.00134	<0.00134	<0.00134	<0.00267	<0.00134	<0.00134	<0.00134	ND	--	--	--			
	TS-7.5-8.0	1/31/2017	7.5 to 8.0	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169	<0.0338	<0.0169	<0.0169	<0.0169	ND	--	--	--			
TSX01	TSX01-3.5-4.0	2/2/2017	3.5 to 4.0	<0.00176	<0.00176	<0.00176	<0.00176	<0.00176	<0.00176	<0.00352	<0.00176	<0.00176	<0.00176	ND	--	--	--			
	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	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	--	--	--			
	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	<0.00330	<0.00165	<0.00165	<0.00165	ND	--	--	--			
TSX01X	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	--	--	--			
	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 - Comm./Ind. (d)				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 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.

References

- (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

Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Analytical Results in mg/kg dry weight (a)(b)														BaPe	Other SVOCs
				SVOCs										PAHs					
				Anthracene	Fluorene	Naphthalene	Phenanthrene	2-methyl naphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-c,d)pyrene				
UST Piping-related Samples (c)																			
HUST -PPNG	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	<0.333	ND	ND	
	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	<1.66	ND	ND	
	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	<1.66	ND	ND	
	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	<1.66	ND	ND	
UST Excavation Sidewall Samples																			
HUST-SW	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	<0.333	ND	ND	
	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	<0.333	ND	ND	
	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	<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	<0.333	ND	ND	
UST Excavation Floor 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	<0.333	ND	ND	
	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	<0.333	ND	ND	
RWQCB ESL - Comm./Ind. (d)				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. (e)				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

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.

References

- (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

Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Analytical Results in ug/L (a)(b)																							
				TPH			VOCs																				
				TPH-g	TPH-d (e)	TPH-mo (e)	Benzene	cis-1,2-DCE	Ethylbenzene	Isopropylbenzene	Naphthalene	MTBE	n-butylbenzene	n-propylbenzene	sec-butylbenzene	Toluene	Trichloroethene	trans-1,2-DCE	Vinyl Chloride	Xylenes-m,p	Xylenes-o	1,1-DCA	1,1-DCE	1,2-DCA	1,2,4-TMB	1,3,5-TMB	Other VOCs
H-H	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	24.1	<10.0	<10.0	ND	
	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	<0.500	ND
Samples From Data Gap Investigation																											
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
	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	0.830	<0.500	<0.500	ND	
TSX02	TSX02-5-15	2/2/2017	5.5 - 15.5	<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	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)				<i>na</i>	<i>na</i>	<i>na</i>	1.0	6.0	300	<i>na</i>	<i>na</i>	13	<i>na</i>	<i>na</i>	<i>na</i>	150	5.0	10	0.50	1,750	1,750	5	6	0.50	<i>na</i>	<i>na</i>	--
RWQCB ESL - Comm./Ind. (d)				100	100	100	1.0	6.0	30	<i>na</i>	0.17	5.0	<i>na</i>	<i>na</i>	<i>na</i>	40	5.0	10	0.50	20	20	5	6	0.50	<i>na</i>	<i>na</i>	--

Abbreviations

<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

Notes

(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.

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 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
5679 Horton Street, Emeryville, California

Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Analytical Results for Dissolved Title 22 Metals in ug/L (a)(b)						
				Barium	Cobalt	Copper	Molybdenum	Nickel	Zinc	Other Title 22 Metals
H-H	H-H-19-24	5/5/2015	19 - 24	127	17.4	1.36	25.5	16.6	13.4	ND
	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 ESL - Comm./Ind. (d)				1,000	4.7	1,000	78	100	5,000	--

Abbreviations

-- = not analyzed

ESL = environmental screening level

EPA = Environmental Protection Agency

ft bgs = feet below ground surface

MCLs = Maximum Contaminant Levels

na = not applicable

ND = not detected

RWQCB - Regional Water Quality Control Board, San Francisco Bay Regi

ug/L = micrograms per liter

UST = underground storage tank

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 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.

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 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

Sample Location	Sample ID	Sample Date	Sample Type	Approximate Sample Depth (ft bgs)	Analytical Results (a)(b)																							Leak Check Results (ppmv)		
					VOCs (ug/m ³)																							DFA in Sample	DFA in Sampling Shroud	Estimated Leak Percentage
					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				
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 ESL - Comm/Ind					3,000	35,000	350,000	160	420	290	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	na	
1,000 x RSL for Industrial Indoor Air (e)					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 x DTSC HERO HHRA Note 3 Table 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
HHRA = Human Health Risk Assessment
ug/m³ = micrograms per cubic meter
UST = underground storage tank
na = not available

ND = not detected

ppmv = parts per million by volume

RSL = USEPA Regional Screening Levels

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)

References:

- (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

Location ID	Sample ID	Sample Date	Sample Depth (ft bgs)	Analytical Results in ug/L (a)										TPH			
				VOCs													
				Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Toluene	Trichlorotrifluoroethane	TPH-g	TPH-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	<0.500	50	150	116
	TSW-5-15-DUP	1/31/2017		<0.500	1.81	<0.500	0.51	<0.500	<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

Notes:

(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

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

SCM Element	SCM Sub-Element	Description	Data Gap (a)	How to Address (a)
1. Current Land Use		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, California. Industrial/commercial buildings are located along both sides of Horton Street. (Figure 1)	None	NA
2. Site History		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 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)	None	NA
3. UST	a. Contents Prior to Removal	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 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 out of the in-place UST and disposed off-site in accordance with applicable laws and regulations. (Reference: EKI, 2015b)	None	NA
	b. Removal	The former Horton Street 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"), 5679 Horton Street, Emeryville, California, dated 8 June 2015 and 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 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)	None	NA
4. Geology	a. Regional	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. 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)	None	NA
	b. Site & Vicinity	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 gravelly 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 gravelly than other boring locations within Horton Street. • 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)	None	NA
	c. Within UST excavation pit	Stratigraphy Within the UST Excavation Pit: • 0.0 to 1.0 ft bgs – Asphalt • 1.0 to 1.5 ft bgs – Baserock • 1.5 to 7.0 ft bgs – Black and green, silty clay, fill material • 7.0 to 9.5 ft bgs – Brown and gray, clayey silt, native material (Reference: EKI, 2015b)	None	NA
5. Hydrogeology	a. Regional	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 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 north-northwest striking Hayward Fault, located approximately 3 miles northeast of the Site (RWQCB, 2003). (Reference: EKI 2012)	None	NA
	b. Site & Vicinity	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 S10/1032 Units, 1032/3243 Units, and the 3243/4360 Units on the FMW Site. (Reference: EKI, 2016b)	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)
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 Product		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
9. Chemicals of Concern ("COCs")	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-methylnaphthalene. (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
	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.
10. Other Contaminant Release Sites in Vicinity	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/m ³ ") TCE. (Reference: EKI, 2016b)	None	NA
	b. Northwest of Site (Crossgradient)	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)
11. Extent of Groundwater Impacts	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
	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	The FMW Site contains a network of shallow groundwater monitoring wells that are located downgradient of the entire area investigated in Horton Street regarding potential environmental impacts of the Site (Figures 3a to 3b). TPH-d and TPH-mo groundwater data from the FMW Site indicates that potential downgradient impacts related to the Site do not likely extend much farther downgradient of Horton Street. • 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).	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

References:

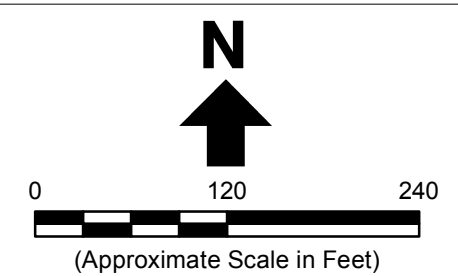
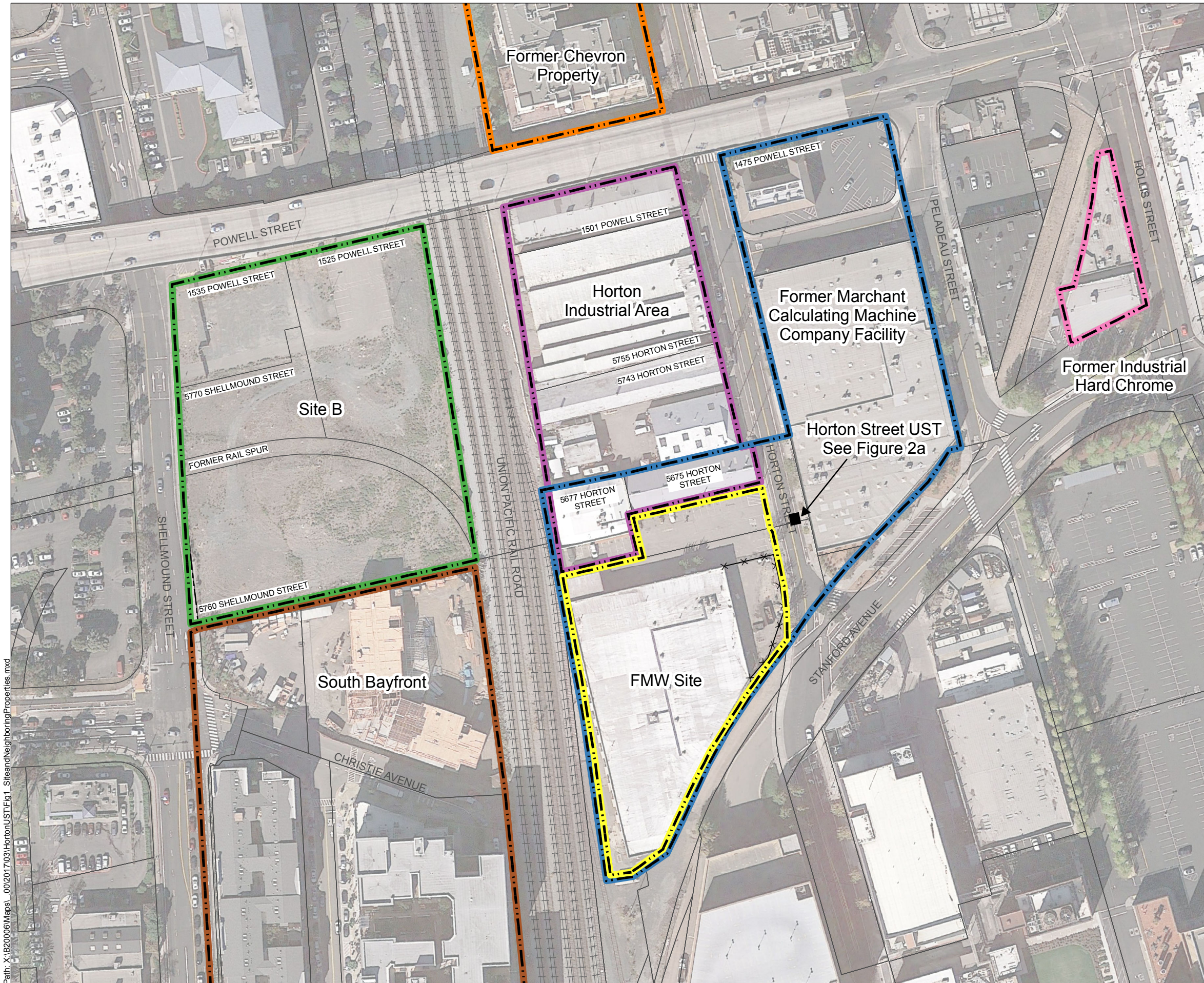
- (1) ACDEH, 2016. *Request for Data Gap Work Plan Addendum*; Fuel Leak Case No. RO0003185 and GeoTracker Global ID T10000007323, Horton Street UST, 5679 Horton Street, Emeryville, CA 94608, 27 September 2016.
- (2) DWR, 2003. California's Groundwater: Bulletin 118, Update 2003. California Department 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. RO0003185 and GeoTracker Global ID T10000007323, Horton Street UST, 5679 Horton Street, Emeryville, CA, 27 September 2016.

TABLE 7
EVALUATION OF LOW THREAT CLOSURE POLICY CRITERIA
Former Horton Street UST
5679 Horton Street, Emeryville, California

Criteria	Criteria Description	Criteria Met?	Basis
General Criteria	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.
	d. Free product has been removed to the maximum extent practicable.	Yes	See SCM Element 8 on Table 6.
	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.
Media-Specific Criteria	1. Groundwater	Yes	See SCM Element 11 on Table 6.
	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.
	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:

- (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.



- Legend**
- FMW Site Property Boundary
 - Site B Property Boundary
 - South Bayfront Property Boundary
 - Approximate Extent of Former Marchant Calculating Machine Company Facility
 - Former Chevron Property
 - Former Industrial Hard Chrome Facility
 - Horton Industrial Area

Abbreviations
 FMW = Former Marchant/Whitney
 UST = underground storage tank

Notes
 1. All property boundaries are approximate.

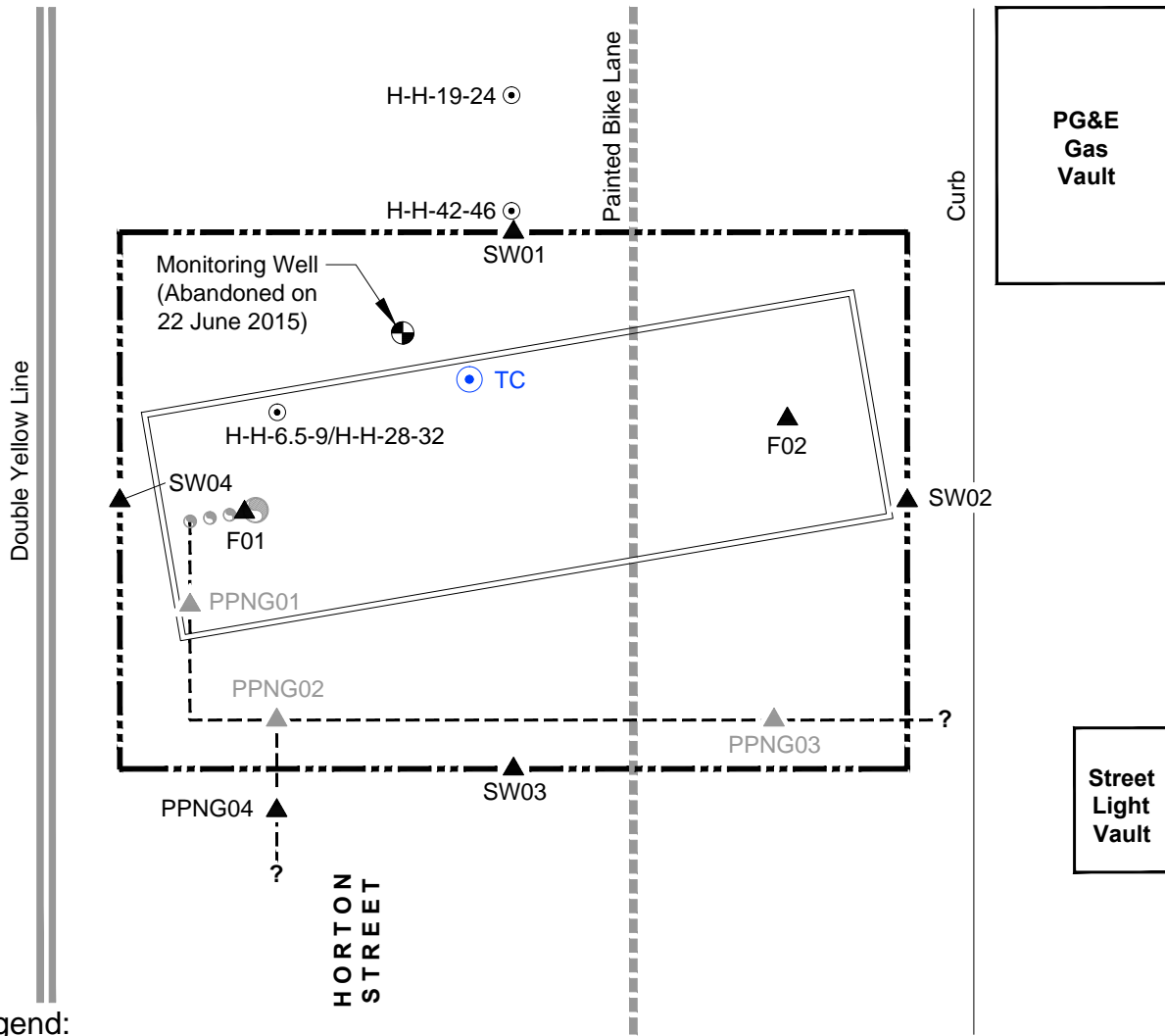
Source
 Aerial photograph provided by Google Earth Pro, dated October 2015, obtained March 2016.

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Site and Neighboring Properties

Former Horton Street UST
 Emeryville, CA
 March 2017
 EKI B20006.00 T7
 Figure 1

Path: X:\B20006\Maps\00201703\HortonUST\Fig1_SiteandNeighboringProperties.mxd



Legend:

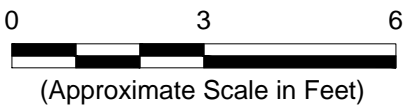
- Approximate Location of UST
- Approximate Limit of UST Excavation Pit
- Approximate Location of Associated UST Piping
- UST Fuel, Product, and Vent Ports
- Grab Groundwater Sampling Location
- CPT and Grab Groundwater Sampling Location
- Confirmation Soil Sampling Location

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.

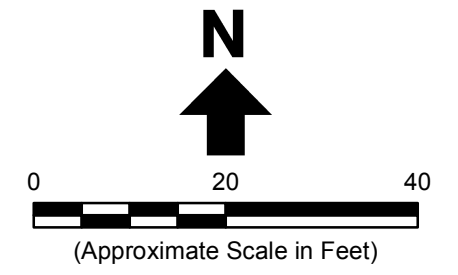


Erler & Kalinowski, Inc.

**UST Excavation Area
 Sampling Locations**

Former Horton Street UST
 Emeryville, CA
 March 2017
 EK1 B20006.00

Figure 2a



- Legend**
- Former UST
 - Former UST Excavation Area
 - Grab Groundwater Sampling Location
 - Grab Groundwater and Soil Sampling Location
 - Soil Vapor Sampling Location
-
- Surveyed Utilities**
- | | |
|---|---|
| <ul style="list-style-type: none"> --- AT&T Line --- Electrical --- Overhead Electrical --- Gas --- Sanitary Sewer or Storm Drain --- Unknown Utility --- Water | <ul style="list-style-type: none"> ○ PGE Power Pole ⊙ Street Light Ⓧ Storm Drain MH Ⓢ Sanitary MH Ⓜ Water Vault Ⓜ Water valve Ⓜ Vault Box Ⓜ Catch Basin |
|---|---|

- Abbreviations**
- FMW = Former Marchant/Whitney
 - GPR = Ground Penetrating Radar
 - MH = Manhole
 - UST = Underground Storage Tank

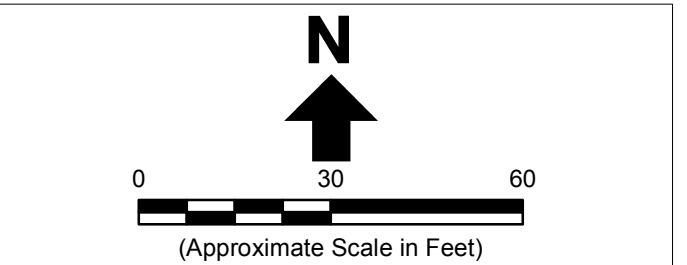
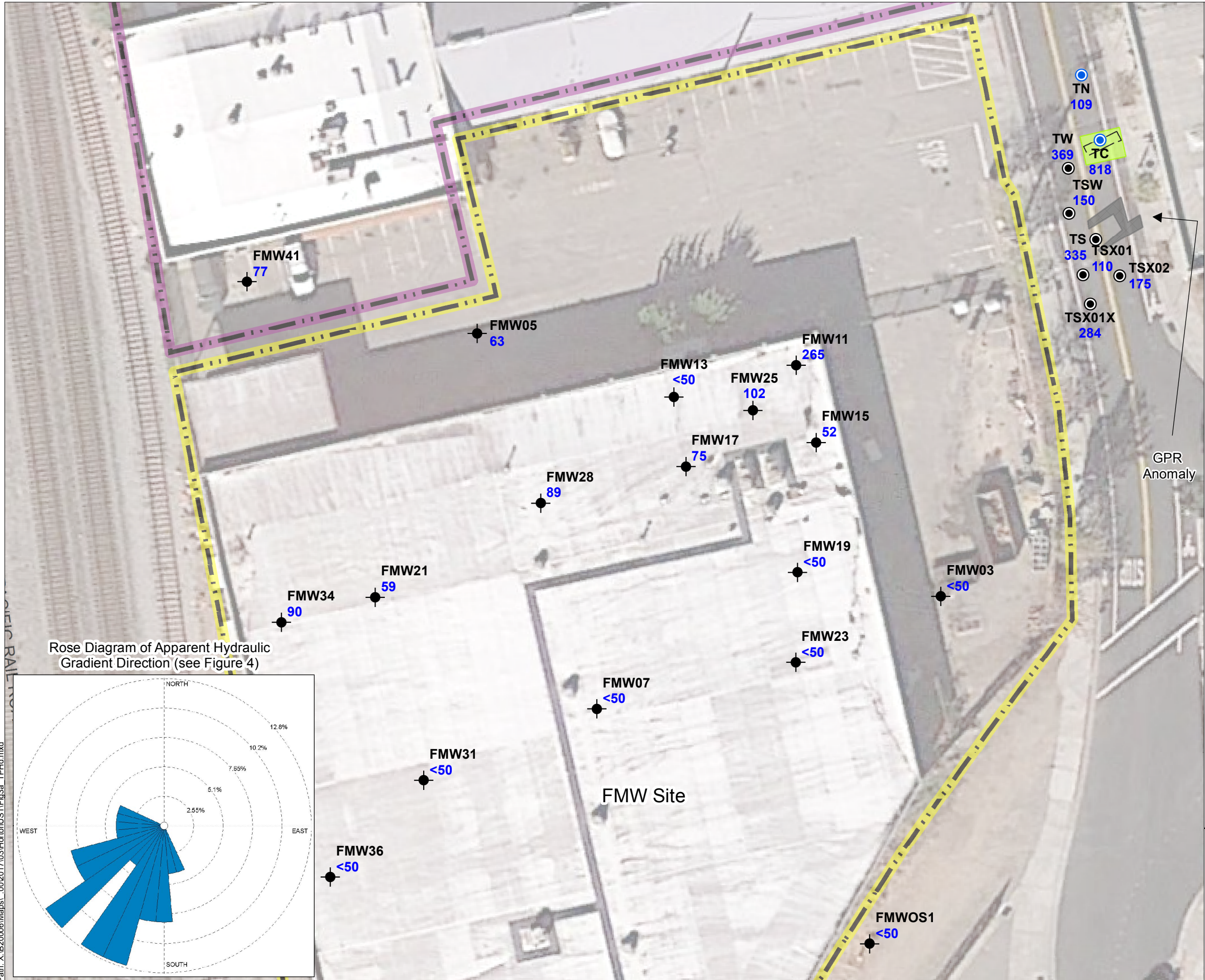
- Notes**
1. All locations are approximate.
 2. Utilities located on 18 October 2016 by Subdynamic Locating Services, San Jose.
 3. Survey conducted on 18 October 2016, 30 January 2017, and 2 February 2017 by PLS Surveys, Inc., Oakland.

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Data Gap Sampling Locations

Former Horton Street UST
Emeryville, CA
March 2017
EKI B20006.00 T7
Figure 2b

Path: X:\B20006\Maps\...002017\03\HortonUST\Fig2b_DataGapSampleLocs.mxd



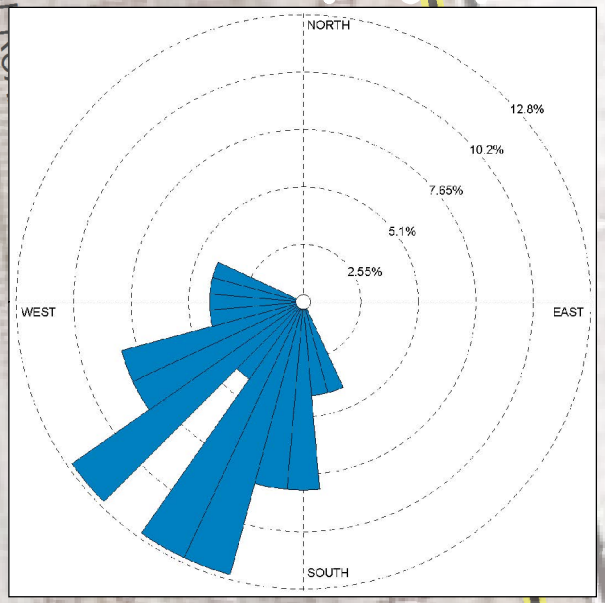
- Legend**
- Former UST
 - Former UST Excavation Area
 - Grab Groundwater Sampling Location
 - Grab Groundwater and Soil Sampling Location
 - ⊕ FMW Groundwater Monitoring Well - S10 Unit

- Abbreviations**
- FMW = Former Marchant/Whitney
 - ft bgs = feet below ground surface
 - ft msl = feet above mean sea level
 - GPR = ground penetrating radar
 - S10 = Stratigraphic Unit Beneath Fill Material to -10 ft msl
 - TPH-d = Total Petroleum Hydrocabons: diesel range
 - UST = Underground Storage Tank

- Notes**
1. All locations are approximate.
 2. Grab groundwater samples collected 30 January to 2 February 2017. FMW well samples collected 10-22 November 2016.
 3. Grab groundwater samples collected from 5 to 15 ft bgs. FMW screen intervals range from from approximately 7 to 19 ft bgs.

Source
Aerial photograph provided by Google Earth Pro, dated October 2015, obtained March 2016.

Rose Diagram of Apparent Hydraulic Gradient Direction (see Figure 4)

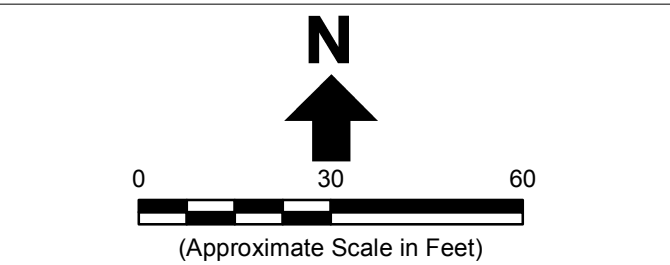


Erler & Kalinowski, Inc.

TPH-d in Groundwater

Former Horton Street UST
Emeryville, CA
March 2017
EKI B20006.00 T7
Figure 3a

Path: X:\B20006\Maps\002017\03\HortonUST\Fig3a_TPHd.mxd



- Legend**
- Former UST
 - Former UST Excavation Area
 - Grab Groundwater Sampling Location
 - Grab Groundwater and Soil Sampling Location
 - ⊕ FMW Groundwater Monitoring Well - S10 Unit
- Abbreviations**
- FMW = Former Marchant/Whitney
 - ft bgs = feet below ground surface
 - ft msl = feet above mean sea level
 - GPR = ground penetrating radar
 - S10 = Stratigraphic Unit Beneath Fill Material to -10 ft msl
 - TPH-mo = Total Petroleum Hydrocabons: motor oil range
 - UST = Underground Storage Tank

- Notes**
1. All locations are approximate.
 2. Grab groundwater samples collected 30 January to 2 February 2017. FMW well samples collected 10-22 November 2016.
 3. Grab groundwater samples collected from 5 to 15 ft bgs. FMW screen intervals range from from approximately 7 to 19 ft bgs.

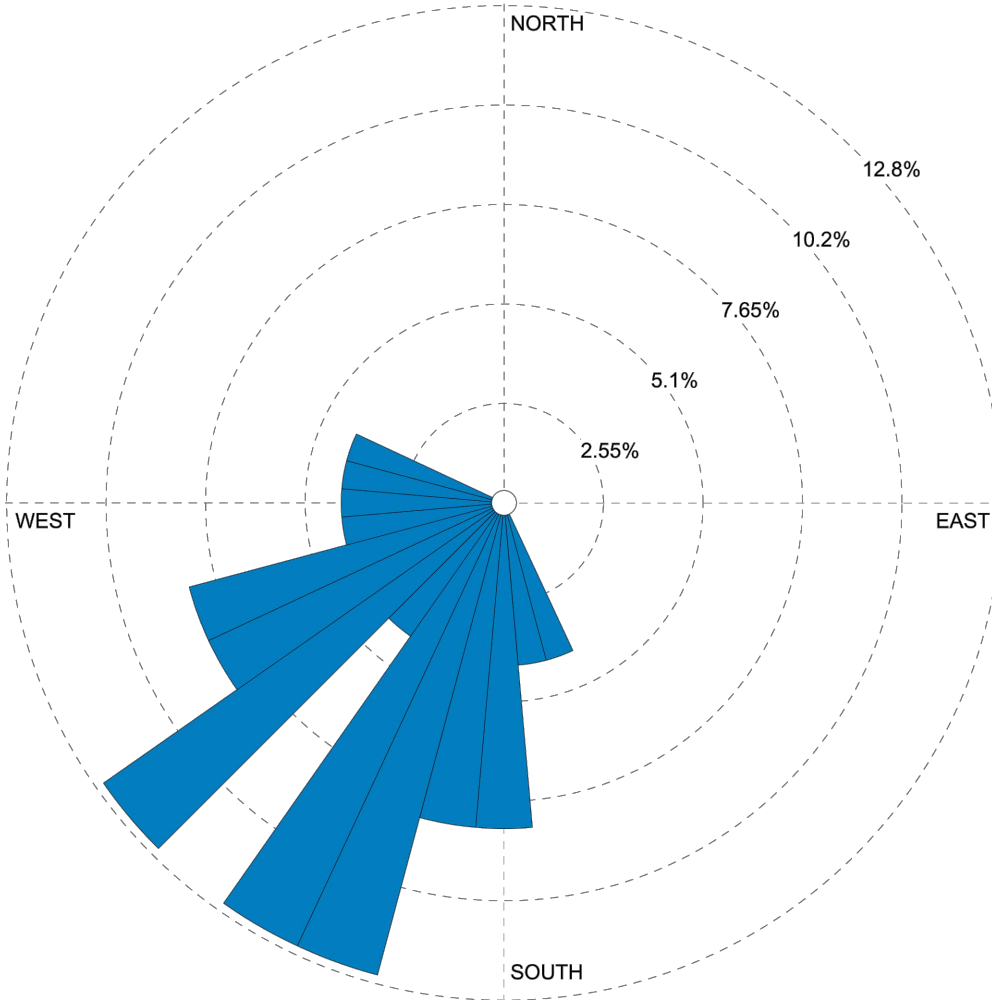
Source
 Aerial photograph provided by Google Earth Pro, dated October 2015, obtained March 2016.

Erler & Kalinowski, Inc.

TPH-mo in Groundwater

Former Horton Street UST
 Emeryville, CA
 March 2017
 EKI B20006.00 T7
 Figure 3b

Path: X:\B20006\Maps\...002017\03\HortonUST\Fig3b_TPHmo.mxd



Abbreviations:

FMW = Former Marchant/Whitney
 UST = Underground Storage Tank

Notes:

1. 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.
2. This figure was compiled using WRPLOT View, Version 8.0.0 by Lakes Environmental.

Erlar & Kalinowski, Inc.

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

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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/mch 2/2/2017

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 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, INC.
LABORATORY REPORT

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 ID	DATE ANALYZED	MRL	SAMPLE CONC	GRO 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

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
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

K PRIME, INC.
LABORATORY REPORT

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

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

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	1.57	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: 02/02/17

K PRIME, INC.
LABORATORY REPORT

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
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
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

K PRIME, INC.
LABORATORY REPORT

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

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

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
------------------	------

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: 
DATE: 02/02/17

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
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
ISOPROPYLBENZENE	98-82-8	1.64	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.64	ND
BROMOBENZENE	108-86-1	1.64	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

K PRIME, INC.
LABORATORY REPORT

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

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

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	1.64	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

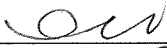
SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	105
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	95

PERCENT MOISTURE	20.7
------------------	------

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: 
DATE: 02/02/17

K PRIME, INC.
LABORATORY REPORT

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 CONC	DRO PATTERN
TW-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
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: 02/02/17

K PRIME, INC.
LABORATORY REPORT

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 CONC	HRO PATTERN
TW-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:

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: *ew*
DATE: 02/02/17

K PRIME, INC.
LABORATORY REPORT

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

METHOD: PERCENT MOISTURE
REFERENCE: ASTM D 2216-05

SAMPLE TYPE: SOIL
UNITS: %

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE 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: *[Signature]*
DATE: 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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
TPH-G	5.00	ND	4.87	97	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B011817S1

BATCH NO: 011817S1

DATE ANALYZED: 01/18/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260

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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B011817S1

BATCH NO: 011817S1

DATE ANALYZED: 01/18/2017

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	1.50	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

K PRIME, INC.
LABORATORY BATCH QC REPORT

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE ID: B011817S1
SPIKE ID: L011817S1
DUPLICATE ID: D011817S1
BATCH NO: 011817S1
SAMPLE TYPE: SOIL
UNITS: µg/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg

METHOD BLANK ID: B012317S1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	10.0	ND

SAMPLE ID: L012317S1
DUPLICATE ID: D012317S1

ACCURACY (MATRIX SPIKE)

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: 151129
DUPLICATE ID: 151129DUP
METHOD BLANK ID: B013117S1
BATCH NO: 013117S1
DATE ANALYZED: 02/01/2017

METHOD: PERCENT MOISTURE
REFERENCE: ASTM D 2216-05

SAMPLE TYPE: SOIL
UNITS: %

PRECISION (DUPLICATE)

ANALYTE	REPORTING LIMIT	PRIMARY RESULT	DUPLICATE RESULT	RPD (%)
% 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

Project Name		Project No.:		GeoTracker Global ID #			
Horton ST 110		R209005 (N) 17		T10000007323			
Location		Sampled By:		EXPECTED TURNAROUND TIME			
Troyville, CA		G. Brunst & K. Mitchell		A B			
Reporting:		Laboratory:		DATE			
Electronic Format (ED)		K-Prime Laboratories, Inc.		2/1/2017 KF			
Hard Copy Format (PDI)		3621 Westwind Boulevard		2/1/2017 KF			
EPA Data Report Level (I)		Santa Rosa, CA, USA 95403					
EPA Data Report Level (II)		(707) 527-7574					
Please report results to the following people:							
(1) Data Archive: info@ekconsult.com							
(2) By AP: jacob@ekconsult.com							
(3) Jessica Daugherty: jdaugherty@ekconsult.com							
(4) Eric Brunst: erbrunst@ekconsult.com							
(5) K. Mitchell: kmitchell@ekconsult.com							
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type	ANALYSES REQUESTED	Remarks
TW-3540	151126	30 Jun 17	1230	Soil	5 x 5-gram EnCore 4-oz glass jar	ASTM D2216 Percent Moisture EPA 8015M TPH d / DROB EPA 8015M TPH e / GRO EPA 8260 VOCs & MTBE	N/D
TW-6.5-30	151127	30 Jun 17	1245	Soil	5 x 5-gram EnCore 4-oz glass jar		1 day KF
TW-6.5-40	151128	30 Jun 17	1400	Soil	5 x 5-gram EnCore 4-oz glass jar		N/D
TW-6.5-70	151129	30 Jun 17	1445	Soil	5 x 5-gram EnCore 4-oz glass jar		N/D

Special Instructions: * Please verify results on dry weight basis

Requested by: (Signature/Affiliation)	Date & Time
<i>[Signature]</i>	1-30-17 1600
Relinquished by: (Signature/Affiliation)	Date & Time
<i>[Signature]</i>	1/30/17 17:12
Relinquished by: (Signature/Affiliation)	Date & Time
<i>[Signature]</i>	

Requested by: (Signature/Affiliation of Carrier/Job Roll No.)
Received by: (Signature/Affiliation)
Received by: (Signature/Affiliation)

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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/m ck
2/2/2017*

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 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, INC.
LABORATORY REPORT

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 CONC	DRO 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
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: TJ
DATE: 2/2/2017

K PRIME, INC.
LABORATORY REPORT

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 CONC	HRO 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: TJ
DATE: 2/2/2017

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

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

METHOD: DRO
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg

METHOD BLANK ID: B012317S1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	10.0	ND

SAMPLE ID: L012317S1
DUPLICATE ID: D012317S1

ACCURACY (MATRIX SPIKE)





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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323			
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	VOCs & MTBE	EPA 8015M	TPH-g / GAO	EPA 8015M	TPH-d / DRO	ASTM D2216	Percent Moisture	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: <u>A</u> (A, B, C, D, etc.)	
Reporting: Electronic Format: EDF <u>Hard Copy Format:</u> 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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574														Date: <u>1/31/2017</u> By: <u>KF</u>	
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type												
TW-3.5-4.0	151126	30 Jan 17	1230	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X									STD
TW-6.5-7.0	151127	30 Jan 17	1245	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X									1 day (KF)
TSW-3.5-4.0	151128	30 Jan 17	1400	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X									STD
TSW-6.5-7.0	151129	30 Jan 17	1445	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X									STD
				Soil	5 x 5-gram EnCore 4-oz glass jar												
				Soil	5 x 5-gram EnCore 4-oz glass jar												
Special Instructions: * please report results on dry weight basis																	
Relinquished by: (Signature/Affiliation)  EKI				Date & Time 1-30-17 1600				Received by: (Signature/Affiliation or Carrier/Air Bill No.)  1/30/17 9:00									
Relinquished by: (Signature/Affiliation)  Enrol (VTC)				Date & Time 1/30/17 17:42				Received by: (Signature/Affiliation)  Rhy									
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)									

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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 m ch
2/1/2017*

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 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, INC.
LABORATORY REPORT

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

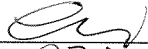
METHOD: GRO-GASOLINE RANGE ORGANICS-DRY WEIGHT
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	ID	ANALYZED			
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: 02/01/17

K PRIME, INC.
LABORATORY REPORT

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
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
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	75-25-2	1.56	ND
ISOPROPYLBENZENE	98-82-8	1.56	ND
1,1,1,2-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

K PRIME, INC.
LABORATORY REPORT

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
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	1.56	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
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NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: 

DATE: 02/01/17

K PRIME, INC.
LABORATORY REPORT

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 CONC	DRO 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
NA Not Applicable or Available
MRL Method Reporting Limit
AD Typical Pattern for Diesel
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: 02/01/17

K PRIME, INC.
LABORATORY REPORT

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


METHOD: PERCENT MOISTURE
REFERENCE: ASTM D 2216-05

SAMPLE TYPE: SOIL
UNITS: %

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE 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: 02/01/17

K PRIME, INC.
LABORATORY QC REPORT

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B011817S1

BATCH NO: 011817S1

DATE ANALYZED: 01/18/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: SOIL

REFERENCE: EPA 5035/8260

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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B011817S1

BATCH NO: 011817S1

DATE ANALYZED: 01/18/2017

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	1.50	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

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: B011817S1
SPIKE ID: L011817S1
DUPLICATE ID: D011817S1
BATCH NO: 011817S1
DATE ANALYZED: 01/18/2017

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg

ACCURACY (MATRIX SPIKE)

COMPOUND NAME	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg

METHOD BLANK ID: B012317S1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	10.0	ND

SAMPLE ID: L012317S1
DUPLICATE ID: D012317S1

ACCURACY (MATRIX SPIKE)

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: 151129
DUPLICATE ID: 151129DUP
METHOD BLANK ID: B013117S1
BATCH NO: 013117S1
DATE ANALYZED: 02/01/2017

METHOD: PERCENT MOISTURE
REFERENCE: ASTM D 2216-05

SAMPLE TYPE: SOIL
UNITS: %

PRECISION (DUPLICATE)

ANALYTE	REPORTING LIMIT	PRIMARY RESULT	DUPLICATE RESULT	RPD (%)
% 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

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323					
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015M	EPA 8015M	ASTM D2216	Percent Moisture	EPA 8015M	TPH-d / DR0	EPA 8015M	TPH-g / GR0	VOCs & MTBE	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: <u>A</u> (A, B, C, D, etc.)	
Reporting: Electronic Format: EDF <u>Hard Copy Format:</u> 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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574																Date: <u>1/31/2017</u> By: <u>RF</u>	
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type														
TW-3.5-4.0	151126	30Jan17	1230	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X											STD
TW-6.5-7.0	151127	30Jan17	1245	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X											1 day <u>RF</u>
TSW-3.5-4.0	151128	30Jan17	1400	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X											STD
TSW-6.5-7.0	151129	30Jan17	1445	Soil	5 x 5-gram EnCore 4-oz glass jar		X	X											STD
				Soil	5 x 5-gram EnCore 4-oz glass jar														
				Soil	5 x 5-gram EnCore 4-oz glass jar														
Special Instructions: * please report results on dry weight basis																			
Relinquished by: (Signature/Affiliation) <u>[Signature]</u> EKI				Date & Time 1-30-17 1600				Received by: (Signature/Affiliation or Carrier/Air Bill No.) <u>[Signature]</u> 1/30/17 9:00											
Relinquished by: (Signature/Affiliation) <u>[Signature]</u> (VTC)				Date & Time 1/30/17 17:42				Received by: (Signature/Affiliation) <u>[Signature]</u> Rhy											
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)											

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323	
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015M	EPA 8015M	ASTM D2216	Percent Moisture	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: _____ (A, B, C, D, etc.)		
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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574											Analyte / Group		VOCs & MTBE
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type								Remarks		
TW-3.5-4.0	151126	30Jan17	1230	Soil	5 x 5-gram EnCore		X	X							STD ↓
					4-oz glass jar				X	X					
TW-6.5-7.0	151127	30Jan17	1245	Soil	5 x 5-gram EnCore		X	X							
					4-oz glass jar				X	X					
TSW-3.5-4.0	151128	30Jan17	1400	Soil	5 x 5-gram EnCore		X	X							
					4-oz glass jar				X	X					
TSW-6.5-7.0	151129	30Jan17	1445	Soil	5 x 5-gram EnCore		X	X							
					4-oz glass jar				X	X					
				Soil	5 x 5-gram EnCore										
					4-oz glass jar										
				Soil	5 x 5-gram EnCore										
					4-oz glass jar										
Special Instructions: * please report results on dry weight basis															
Relinquished by: (Signature/Affiliation) <i>G. Brunst</i> EKI				Date & Time 1-30-17 1600				Received by: (Signature/Affiliation or Carrier/Air Bill No.) <i>Errol (VTC) 1/30/17 9:00</i>							
Relinquished by: (Signature/Affiliation) <i>Errol (VTC)</i>				Date & Time 1/30/17 17:42				Received by: (Signature/Affiliation) <i>Errol (VTC)</i>							
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)							

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

Phone: 650-292-9100
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Email: labs@ekiconsult.com
jsu@ekiconsult.com
jdaugherty@ekiconsult.com
gbrunst@ekiconsult.com
kmitchell@ekiconsult.com

FROM: Richard A. Kegel, Ph.D.
Laboratory Director

*RAK/m dr
2/2/2017*

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, INC.
LABORATORY REPORT

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
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

K PRIME, INC.
LABORATORY REPORT

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

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

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	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

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

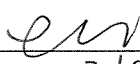
SAMPLE TYPE: WATER
UNITS: ug/L

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	103
4-BROMOFLUOROBENZENE	95

NOTES:

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

APPROVED BY: 
DATE: 02/02/17

K PRIME, INC.
LABORATORY REPORT

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 SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	DRO 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
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: 02/10/2017

K PRIME, INC.
LABORATORY REPORT

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 SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	HRO 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
AE Unknown hydrocarbon with a single peak
AN Unknown hydrocarbon with several peaks

APPROVED BY: 
DATE: 02/02/17

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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: B011717W1

BATCH NO: 011717W1

DATE ANALYZED: 01/17/2017

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.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B011717W1

BATCH NO: 011717W1

DATE ANALYZED: 01/17/2017

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	115
TOLUENE-D8	108
4-BROMOFLUOROBENZENE	94

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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 LIMIT	SAMPLE CONC
DRO	0.0500	ND

SAMPLE ID: L011817W1
DUPLICATE ID: D011817W1

ACCURACY (MATRIX SPIKE)

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

www.ekiconsult.com

PHONE: 650-292-9099

FAX: 650-552-9012

Project Name: Horton St UST			Project No.: B20006.00 T7			ANALYSES REQUESTED												GeoTracker Global ID #: T10000007323	
Location: Emeryville, CA			Sampled By: G. Brunst & K. Mitchell			Method No.	EPA 8260	EPA 8015m	EPA 8015m	TPH-g	TPH-d & TPH-mo	VOCS & MTBE	Analyze / Group	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: _____ (A, B, C, D, etc.)		
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 Mitchell: kmitchell@ekiconsult.com			Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574														Date: _____ By: _____		
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type														
TW-4-14	151130	1-30-17	1355	Water	6 VOAs (HCl)	X	X												
					1-L Amber			X											
				Water	6 VOAs (HCl)														
					1-L Amber														
				Water	6 VOAs (HCl)														
					1-L Amber														
				Water	6 VOAs (HCl)														
					1-L Amber														
				Water	6 VOAs (HCl)														
					1-L Amber														
				Water	6 VOAs (HCl)														
					1-L Amber														
Special Instructions:																			
Relinquished by: (Signature/Affiliation) <i>G. Brunst EKI</i>						Date & Time 1-30-17 1600						Received by: (Signature/Affiliation or Carrier/Air Bill No.) <i>Enel (VTC) 1/30/17 4:00</i>							
Relinquished by: (Signature/Affiliation) <i>Enel (VTC)</i>						Date & Time 1/30/17 17:42						Received by: (Signature/Affiliation) <i>Enel (VTC)</i>							
Relinquished by: (Signature/Affiliation)						Date & Time						Received by: (Signature/Affiliation)							

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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/mch 2/2/2017

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 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, INC.
LABORATORY REPORT

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 NO	DATE	MRL	SAMPLE CONC	GRO PATTERN
		SAMPLED	SAMPLED		ANALYZED			
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

APPROVED BY: TJ
DATE: 2/2/2017

K PRIME, INC.
LABORATORY REPORT

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

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

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
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.
LABORATORY REPORT

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

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

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	112
TOLUENE-D8	106
4-BROMOFLUOROBENZENE	95

NOTES:

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

APPROVED BY: TJ
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 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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
TPH-G	0.500	ND	0.463	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B011717W1

BATCH NO: 011717W1

DATE ANALYZED: 01/17/2017

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.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B011717W1

BATCH NO: 011717W1

DATE ANALYZED: 01/17/2017

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	115
TOLUENE-D8	108
4-BROMOFLUOROBENZENE	94

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

K PRIME, INC.
LABORATORY BATCH QC REPORT

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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

www.ekiconsult.com

PHONE: 650-292-9099

FAX: 650-552-9012

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED												GeoTracker Global ID #: T10000007323											
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No. EPA 8260 EPA 8015m EPA 8015m	Analyte / Group VOCs & MTBE TPH-B TPH-d & TPH-mo																		EXTRACT AND HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: <u>A</u> (A, B, C, D, etc.)	
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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574																								Date: <u>2/1/17</u> By: <u>KF</u>	
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type																						
TB 2017-0130	151131	1-30-17	1500	Water	1 XVOAs (HCl) 1-L Amber	XX																					
				Water	6 VOAs (HCl) 1-L Amber																						
				Water	6 VOAs (HCl) 1-L Amber																						
				Water	6 VOAs (HCl) 1-L Amber																						
				Water	6 VOAs (HCl) 1-L Amber																						
				Water	6 VOAs (HCl) 1-L Amber																						
Special Instructions:																											
Relinquished by: (Signature/Affiliation) <i>JWB</i> EKI												Date & Time 1-30-17 1600						Received by: (Signature/Affiliation or Carrier/Air Bill No.) <i>Enroll VTC</i> 1/30/17 4:00									
Relinquished by: (Signature/Affiliation) <i>Graeme Brunst</i> (VTC)												Date & Time 1/30/17 17:42						Received by: (Signature/Affiliation) <i>3rd PL</i>									
Relinquished by: (Signature/Affiliation)												Date & Time						Received by: (Signature/Affiliation)									

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323	
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015m	EPA 8015m	VOCs & MTBE	TPH-g	TPH-d & TPH-mo	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: _____ (A, B, C, D, etc.)	
Reporting: <u>Electronic Format:</u> EDF <u>Hard Copy Format:</u> PDF <u>EPA Data Report Level:</u> II <u>Please report results to the following people:</u> (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		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574												Date: _____ By: _____	
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type										Remarks
TB20170130	151131	1-30-17	1500	Water	6 VOAs (HCl)		X								STD
					1-L Amber										
				Water	6 VOAs (HCl)										
					1-L Amber										
				Water	6 VOAs (HCl)										
					1-L Amber										
				Water	6 VOAs (HCl)										
					1-L Amber										
				Water	6 VOAs (HCl)										
					1-L Amber										
				Water	6 VOAs (HCl)										
					1-L Amber										
Special Instructions:															
Relinquished by: (Signature/Affiliation) <i>G. Brunst</i> EKI				Date & Time 1-30-17 1600				Received by: (Signature/Affiliation or Carrier/Air Bill No.) <i>Enroll VTC</i> 1/30/17 4:00							
Relinquished by: (Signature/Affiliation) <i>Graeme Brunst (VTC)</i>				Date & Time 1/30/17 17:42				Received by: (Signature/Affiliation) <i>3m PL</i>							
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)							

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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 M ch
2/3/2017*

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 1/31/2017 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

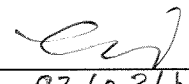
METHOD: GRO-GASOLINE RANGE ORGANICS
REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	NO	ANALYZED	CONC	PATTERN	
TSW-5-15	151217	01/31/2017	9:20	011817W1	02/01/2017	0.050	0.050	CO
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: 
DATE: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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 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	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

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

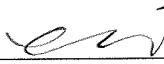
SAMPLE TYPE: WATER
UNITS: ug/L

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	106
4-BROMOFLUOROBENZENE	96

NOTES:

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

APPROVED BY: 
DATE: 02/03/17

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: TSW-5-15-DUP

LAB NO: 151218

DATE SAMPLED: 01/31/2017

TIME SAMPLED: 09:20

K PRIME PROJECT: 9115

BATCH NO: 020117W1

CLIENT PROJECT: B20006.00 T7

DATE ANALYZED: 02/01/2017

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	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
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.
LABORATORY REPORT

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

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

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	102
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	87


NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____

DATE: _____


02/03/17

K PRIME, INC.
LABORATORY REPORT

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 SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	DRO 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
- 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: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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 SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	HRO PATTERN
TSW-5-15	151217	01/31/2017	011817W1	02/01/2017	02/01/2017	0.0510	0.116	
TSW-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
AE Unknown hydrocarbon with a single peak
AN Unknown hydrocarbon with several peaks

APPROVED BY: 
DATE: 02/03/17

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

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.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B020117W1

BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

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	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	99

NOTES:

ND - 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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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
REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

METHOD BLANK ID: B011817W1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	0.0500	ND

SAMPLE ID: L011817W1
DUPLICATE ID: D011817W1

ACCURACY (MATRIX SPIKE)

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323		
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015m	EPA 8015m	TPH-g	TPH-d & TPH-mo	VOCs & MTBE	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: _____ (A, B, C, D, etc.)		
Reporting: Electronic Format: EDF <u>Hard Copy Format:</u> 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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574												Date: _____ By: _____		
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type										EXPECTED TURNAROUND TIME	Remarks
TSW-5-15	151217	31 Jan 2017	0920	Water	6 VOAs (HCl)	X	X									STD
					1-L Amber			X								STD
TSW-5-15-Duo	151218	31 Jan 2017	0920	Water	6 VOAs (HCl)	X	X									STD
					1-L Amber			X								STD
				Water	6 VOAs (HCl)											
					1-L Amber											
				Water	6 VOAs (HCl)											
					1-L Amber											
				Water	6 VOAs (HCl)											
					1-L Amber											
Special Instructions:																
Relinquished by: (Signature/Affiliation) <i>G. Brunst EKI</i>				Date & Time 1-31-17 1600				Received by: (Signature/Affiliation or Carrier/Air Bill No.) <i>Enrol (VTC) 1/31/17 4:00</i>								
Relinquished by: (Signature/Affiliation) <i>Enrol (VTC)</i>				Date & Time 1/31/17 17:52				Received by: (Signature/Affiliation) <i>[Signature]</i>								
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)								

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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/m ch
2/3/2017*

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 1/31/2017 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: 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	
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

K PRIME, INC.
LABORATORY REPORT

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

SAMPLE ID: EB20170131
LAB NO: 151219
DATE SAMPLED: 01/31/2017
TIME SAMPLED: 10:00
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
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.
LABORATORY REPORT

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

SAMPLE ID: EB20170131
LAB NO: 151219
DATE SAMPLED: 01/31/2017
TIME SAMPLED: 10:00
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	99-87-6	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

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: *ew*

DATE: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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

SAMPLE ID: TB20170131
LAB NO: 151220
DATE SAMPLED: 01/31/2017
TIME SAMPLED: 11:40
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
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.
LABORATORY REPORT

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

SAMPLE ID: TB20170131
LAB NO: 151220
DATE SAMPLED: 01/31/2017
TIME SAMPLED: 11:40
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	99-87-6	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:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: 
DATE: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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 SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	DRO 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
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: *CS*
DATE: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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 SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	HRO PATTERN
EB20170131	151219	01/31/2017	011817W1	02/01/2017	02/01/2017	0.0505	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: 02/03/17

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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 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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
TPH-G	0.500	ND	0.463	93	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B020117W1

BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

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.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B020117W1

BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

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	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	99

NOTES:

ND - 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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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
REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

METHOD BLANK ID: B011817W1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	0.0500	ND

SAMPLE ID: L011817W1
DUPLICATE ID: D011817W1

ACCURACY (MATRIX SPIKE)

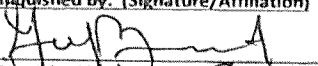
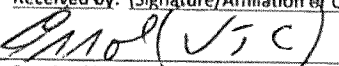
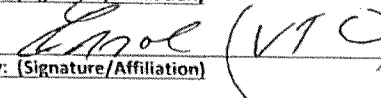

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
DRO	2.50	ND	2.12	85	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323		
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015m	EPA 8015m	TPH-d & TPH-mo	TPH-e	VOCs & MTEB	Analyze / Group	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: <u>A</u> (A, B, C, D, etc.) Date: 2/1/17 By: RF	
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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574														
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type											Remarks
EB20170131	151219	31 Jan 2017	1000	Water	6 VOAs (HCl)	X	R									STD
					1-L Amber											STD
TB20170131	151220	31 Jan 2017	1140	Water	1 X VOAs (HCl)	X	X									STD
					1-L Amber											
				Water	6 VOAs (HCl)											
				Water	1-L Amber											
				Water	6 VOAs (HCl)											
				Water	1-L Amber											
				Water	6 VOAs (HCl)											
				Water	1-L Amber											
Special Instructions:																
Relinquished by: (Signature/Affiliation)  EKI				Date & Time 1-31-17 1600				Received by: (Signature/Affiliation or Carrier/Air Bill No.)  (JSC) 1/31/17 4:00								
Relinquished by: (Signature/Affiliation)  (VTC)				Date & Time 1/31/17 17:52				Received by: (Signature/Affiliation) 								
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)								

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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
Email: labs@ekiconsult.com
jsu@ekiconsult.com
jdaugherty@ekiconsult.com
gbrunst@ekiconsult.com
kmitchell@ekiconsult.com

ACCT: 9115
PROJ: B20006.00 T7

FROM: Richard A. Kagel, Ph.D.
Laboratory Director

*RAK/mch
2/3/2017*

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 1/31/2017 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: GRO-GASOLINE RANGE ORGANICS
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg

SAMPLE ID	LAB NO.	DATE	TIME	BATCH	DATE	MRL	SAMPLE	GRO
		SAMPLED	SAMPLED	NO	ANALYZED			
TS-3.5-4.0	151221	01/31/2017	11:20	020117S1	02/01/2017	1.00	ND	
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: *eli*
DATE: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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 COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: 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

K PRIME, INC.
LABORATORY REPORT

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 COMPOUNDS
REFERENCE: EPA 5035/8260


SAMPLE TYPE: SOIL
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	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: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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 COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	16.9	ND
CHLOROMETHANE	74-87-3	16.9	ND
VINYL CHLORIDE	75-01-4	16.9	ND
BROMOMETHANE	74-83-9	16.9	ND
CHLOROETHANE	75-00-3	16.9	ND
TRICHLOROFLUOROMETHANE	75-69-4	16.9	ND
1,1-DICHLOROETHENE	75-35-4	16.9	ND
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
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
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
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	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
2-CHLOROTOLUENE	95-49-8	16.9	ND

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260


SAMPLE TYPE: SOIL
UNITS: 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: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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

APPROVED BY: eu
DATE: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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

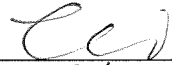
METHOD: HRO
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	HRO 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:

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: 02/03/17

K PRIME, INC.
LABORATORY REPORT

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

METHOD: PERCENT MOISTURE
REFERENCE: ASTM D 2216-05

SAMPLE TYPE: SOIL
UNITS: %

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE 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: *cus*
DATE: 02/03/17

K PRIME, INC.
LABORATORY QC REPORT

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

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
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

K PRIME, INC.
LABORATORY BATCH QC REPORT

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
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:

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

K PRIME, INC.
LABORATORY BATCH QC REPORT

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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg

METHOD BLANK ID: B012317S1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	10.0	ND

SAMPLE ID: L012317S1
DUPLICATE ID: D012317S1

ACCURACY (MATRIX SPIKE)

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: 151222
DUPLICATE ID: 151222DUP
METHOD BLANK ID: B020117S1
BATCH NO: 020117S1
DATE ANALYZED: 02/02/2017

METHOD: PERCENT MOISTURE
REFERENCE: ASTM D 2216-05

SAMPLE TYPE: SOIL
UNITS: %

PRECISION (DUPLICATE)

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

NOTES:

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

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

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

TRANSMITTAL

DATE: 2/17/2017

TO: MS. JOY SU
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MR. GRAEME BRUNST
MR. KEL MITCHELL
MR. RYAN FORD
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FROM: Richard A. Kagel, Ph.D.
Laboratory Director

*RAK by ck
2/17/2017*

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 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, INC.
LABORATORY REPORT

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
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	
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

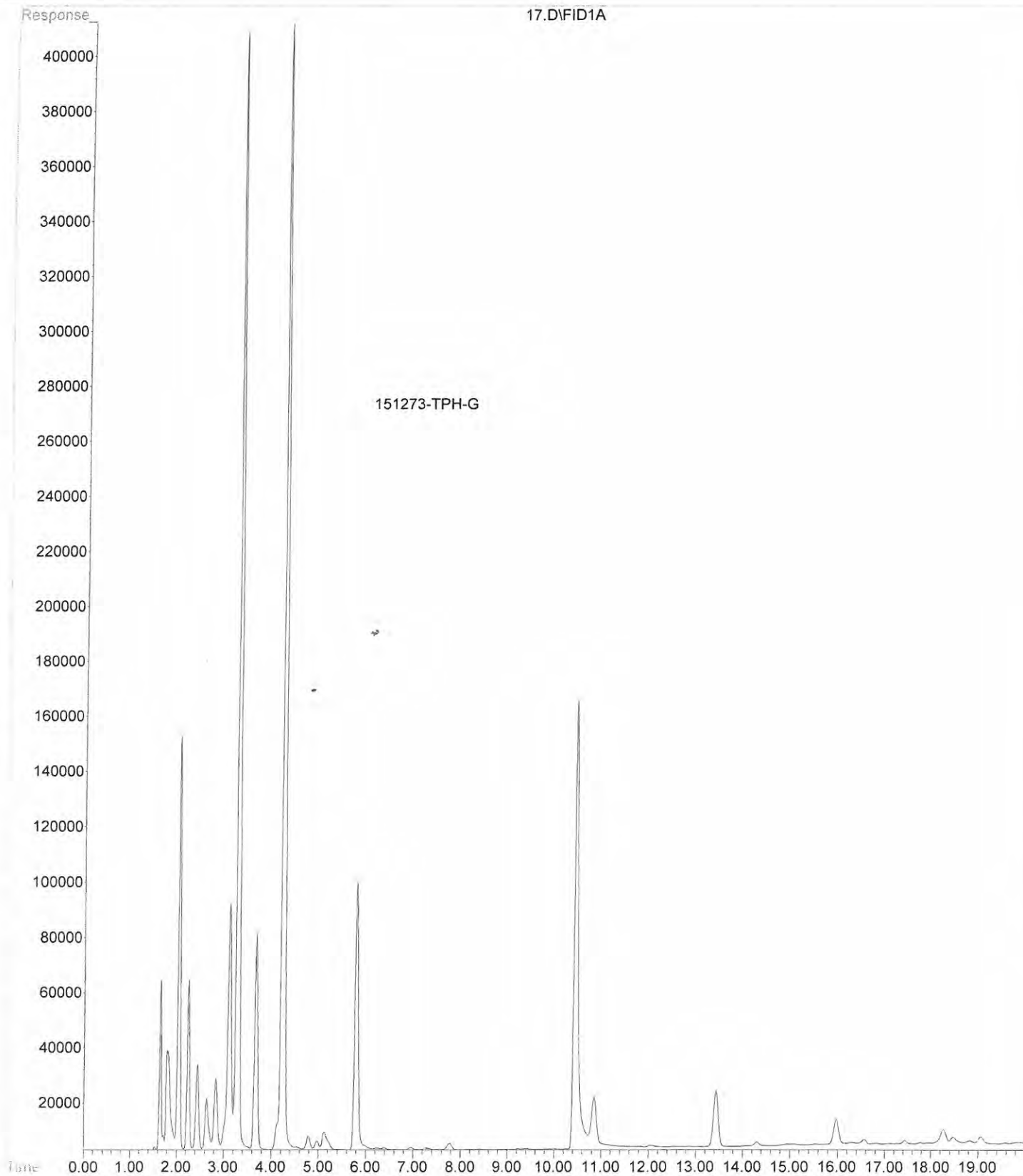
AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS

AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE

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

APPROVED BY: *TJ*
DATE: 2/17/2017

17.D\FID1A



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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

www.ekiconsult.com

PHONE: 650-292-9099

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323	
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015m	EPA 8015m	TPH-g	TPH-d & TPH-mo	VOCs & MTBE	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: _____ (A, B, C, D, etc.)	
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 (b) RYAN FORD* (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@ekiconsult.com (4) Graeme Brunst: gbrunst@ekiconsult.com (5) Kel Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574												Date: _____ By: _____	
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type										Remarks
TS-5-15	151271	2/1/17	0930	Water	6 VOAs (HCl)	1-L Amber	X	X							STD *PER JESSICA DAUGHERTY 2/2/17 BG
TL-4.5-14.5	151272	2/1/17	1100	Water	6 VOAs (HCl)	1-L Amber	X	X							STD
TN-5.5-15.5	151273	2/1/17	1415	Water	6 VOAs (HCl)	1-L Amber	X	X							STD
				Water	6 VOAs (HCl)	1-L Amber									
				Water	6 VOAs (HCl)	1-L Amber									
				Water	6 VOAs (HCl)	1-L Amber									
Special Instructions:															
Relinquished by: (Signature/Affiliation) Gubert EKI				Date & Time 2-1-17 1500				Received by: (Signature/Affiliation or Carrier/Air Bill No.) Coral (VTC) 2/1/17 3:00							
Relinquished by: (Signature/Affiliation) Coral (VTC)				Date & Time 2/1/17 17:04				Received by: (Signature/Affiliation) ZL DL							
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)							

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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

*RPK/mch
2/7/2017*

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, INC.
LABORATORY REPORT

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
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: 02/07/17

K PRIME, INC.
LABORATORY REPORT

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 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
TRICHLOROFUOROMETHANE	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	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.
LABORATORY REPORT

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

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

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	101
4-BROMOFLUOROBENZENE	92

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: 

DATE: 02/07/17

K PRIME, INC.
LABORATORY REPORT

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

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

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

K PRIME, INC.
LABORATORY REPORT

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 COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: 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
TRICHLOROFUOROMETHANE	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
ISOPROPYLBENZENE	98-82-8	1.00	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

K PRIME, INC.
LABORATORY REPORT

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

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

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	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: 02/07/17

K PRIME, INC.
LABORATORY REPORT

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 SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	DRO 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: ew
DATE: 02/07/17

K PRIME, INC.
LABORATORY REPORT

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 SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	HRO PATTERN
TS-5-15	151271	02/01/2017	020217W1	02/02/2017	02/02/2017	0.0543	0.135	
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: 02/07/17

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.
LABORATORY BATCH QC REPORT

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 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
1,1,1,2,2-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.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B020117W1

BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

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	113
TOLUENE-D8	105
4-BROMOFLUOROBENZENE	99

NOTES:

ND - 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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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: 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	REPORTING LIMIT	SAMPLE CONC
DRO	0.0500	ND

SAMPLE ID: L020217W1
DUPLICATE ID: D020217W1

ACCURACY (MATRIX SPIKE)

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

www.ekiconsult.com

PHONE: 650-292-9099

FAX: 650-552-9012

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323				
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015m	EPA 8015m	VOCS & MTBE	TPH-g	TPH-d & TPH-mo	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: _____ (A, B, C, D, etc.)				
Reporting: Electronic Format: EDF <u>Hard Copy Format: PDF</u> EPA Data Report Level: II Please report results to the following people: (1) Data Archive: labs@ekiconsult.com (b) RYAN FORD* (2) Joy Su: jsu@ekiconsult.com (3) Jessica Daugherty: jdaugherty@ekiconsult.com (4) Graeme Brunst: gbrunst@ekiconsult.com (5) Kel Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574												Date: _____ By: _____				
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type												Remarks	
TS-5-15	151271	2/1/17	0930	Water	6 VOAs (HCl)		X	X									SD	*PER JESSICA DAUGHERTY 2/2/17 BG
					1-L Amber				X									
TL-4.5-14.5	151272	2/1/17	1100	Water	6 VOAs (HCl)		X	X									SD	
					1-L Amber				X									
TN-5.5-15.5	151273	2/1/17	1415	Water	6 VOAs (HCl)		X	X									SD	
					1-L Amber				X									
				Water	6 VOAs (HCl)													
				Water	1-L Amber													
				Water	6 VOAs (HCl)													
				Water	1-L Amber													
				Water	6 VOAs (HCl)													
				Water	1-L Amber													
Special Instructions:																		
Relinquished by: (Signature/Affiliation) <i>G. Brunst EKI</i>				Date & Time 2-1-17 1500				Received by: (Signature/Affiliation or Carrier/Air Bill No.) <i>Carol (VTC) 2/1/17 3:00</i>										
Relinquished by: (Signature/Affiliation) <i>Carol (VTC)</i>				Date & Time 2/1/17 17:04				Received by: (Signature/Affiliation) <i>[Signature]</i>										
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)										

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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

FROM: Richard A. Kageł, Ph.D.
Laboratory Director

*RAK mcr
2/7/2017*

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, INC.
LABORATORY REPORT

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

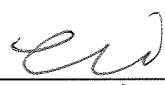
METHOD: GRO-GASOLINE RANGE ORGANICS
REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH NO	DATE ANALYZED	MRL	SAMPLE CONC	GRO PATTERN
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: 02/07/17

K PRIME, INC.
LABORATORY REPORT

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
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

K PRIME, INC.
LABORATORY REPORT

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
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	108
4-BROMOFLUOROBENZENE	97

NOTES:

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

APPROVED BY: 
DATE: 02/07/17

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.
LABORATORY BATCH QC REPORT

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 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.
LABORATORY BATCH QC REPORT

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 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

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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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:

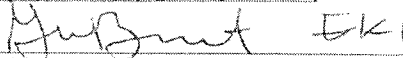



ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

www.ekiconsult.com

PHONE: 650-292-9099

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323								
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No EPA 8260 VOCs & MTBE	EPA 8015m TPH-B	EPA 8015m TPH-d & TPH-mo												Extract and HOLD HOLD	EXPECTED TURNAROUND TIME	Revision: <u>A</u> (A, B, C, D, etc.)		
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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574																		Date: <u>2/3/17</u> By <u>KE</u>	Remarks	
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type																	
TB20170201	151274	2/1/17	1330	Water	2 VOA's (HCl) 1-L Amber	X	X															STD
				Water	6 VOA's (HCl) 1-L Amber																	
				Water	6 VOA's (HCl) 1-L Amber																	
				Water	6 VOA's (HCl) 1-L Amber																	
				Water	6 VOA's (HCl) 1-L Amber																	
				Water	6 VOA's (HCl) 1-L Amber																	
Special Instructions:																						
Relinquished by: (Signature/Affiliation) 										Date & Time 2-1-17 1500					Received by: (Signature/Affiliation or Carrier/Air Bill No.) 							
Relinquished by: (Signature/Affiliation) 										Date & Time 2/1/17 17:04					Received by: (Signature/Affiliation) 							
Relinquished by: (Signature/Affiliation)										Date & Time					Received by: (Signature/Affiliation)							

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

Phone: 650-292-9100
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Email: labs@ekiconsult.com
jsu@ekiconsult.com
jdaugherty@ekiconsult.com
gbrunst@ekiconsult.com
kmitchell@ekiconsult.com
rford@ekiconsult.com

FROM: Richard A. Kage1, Ph.D.
Laboratory Director

*RAK/mcw
2/9/2017*

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 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: 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
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	

NOTES:

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

NA - NOT APPLICABLE OR AVAILABLE

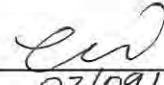
MRL - METHOD REPORTING LIMIT

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

K PRIME, INC.
LABORATORY REPORT

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

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

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	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

K PRIME, INC.
LABORATORY REPORT

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

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

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

NOTES:

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

APPROVED BY: ew
DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

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

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

K PRIME, INC.
LABORATORY REPORT

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

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

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

NOTES:

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

APPROVED BY: 
DATE: 02109117

K PRIME, INC.
LABORATORY REPORT

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

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

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

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

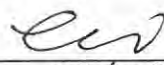
SAMPLE TYPE: WATER
UNITS: ug/L

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: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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 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: 

DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

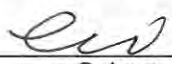
METHOD: HRO
REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	HRO PATTERN
TSX02-5-15	151322	02/02/2017	020217W1	02/03/2017	02/03/2017	0.0526	0.108	
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:

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: 02/09/17

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B020217W1

BATCH NO: 020217W1

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.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B020217W1

BATCH NO: 020217W1

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
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

K PRIME, INC.
LABORATORY BATCH QC REPORT

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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.
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	REPORTING LIMIT	SAMPLE CONC
DRO	0.0500	ND

SAMPLE ID: L020217W1
DUPLICATE ID: D020217W1

ACCURACY (MATRIX SPIKE)

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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FROM: Richard A. Kage1, Ph.D.
Laboratory Director

*RAK/mk
2/9/2017*

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 #
TB20170202	WATER	2/2/2017	14:30	151325

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: 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
TB20170202	151325	02/02/2017	14:30	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: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

SAMPLE ID: TB20170202
LAB NO: 151325
DATE SAMPLED: 02/02/2017
TIME SAMPLED: 14:30
BATCH NO: 020117W1
DATE ANALYZED: 02/03/2017

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
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
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

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

SAMPLE ID: TB20170202
LAB NO: 151325
DATE SAMPLED: 02/02/2017
TIME SAMPLED: 14:30
BATCH NO: 020117W1
DATE ANALYZED: 02/03/2017

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

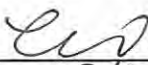
COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	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

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: 
DATE: 2/2/09 117

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B020117W1

BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260SAMPLE 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
1,1,1,2-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

K PRIME, INC.

LABORATORY BATCH QC REPORT

METHOD BLANK ID: B020117W1

BATCH NO: 020117W1

DATE ANALYZED: 02/01/2017

METHOD: VOLATILE ORGANIC COMPOUNDS

SAMPLE TYPE: WATER

REFERENCE: EPA 5030/8260

UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
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

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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323		
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	VOCs & MTBE	EPA 8015m	TPH-E	EPA 8015m	TPH-d & TPH-mo	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: <u>A</u> (A, B, C, D, etc.)		
Reporting: Electronic Format: EDF <u>Hard Copy Format:</u> 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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574												Date: <u>2/1/17</u> By: <u>KF</u>		
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type											Remarks
TB20170202	151325	2 Feb 17	1430	Water	2 6 VOAs (HCl) 1-L Amber	XX KF										
				Water	6 VOAs (HCl) 1-L Amber											
				Water	6 VOAs (HCl) 1-L Amber											
				Water	6 VOAs (HCl) 1-L Amber											
				Water	6 VOAs (HCl) 1-L Amber											
				Water	6 VOAs (HCl) 1-L Amber											
				Water	6 VOAs (HCl) 1-L Amber											
Special Instructions:																
Relinquished by: (Signature/Affiliation) <i>[Signature]</i>				Date & Time 2/2/17 1548				Received by: (Signature/Affiliation or Carrier/Air Bill No.) <i>[Signature]</i> (VJO) 2/2/17 3:48								
Relinquished by: (Signature/Affiliation) <i>[Signature]</i> (VJC)				Date & Time 2/2/17 17:48				Received by: (Signature/Affiliation) <i>[Signature]</i>								
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)								

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

www.ekiconsult.com

PHONE: 650-292-9099

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323										
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015m	EPA 8015m														Extract and HOLD	EXPECTED TURNAROUND TIME	Revision: _____ (A, B, C, D, etc.)	
Reporting: Electronic Format: EDF <u>Hard Copy Format:</u> 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 Mitchell: kmitchell@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574			Analyte / Group	VOCs & MTBE	TPH-g	TPH-d & TPH-mo																
Field Sample ID	Lab Sample No.	Date	Time	Matrix		Container Count & Type																	Remarks	
TB20170202	151325	2Feb17	1430	Water	2 6 VOAs (HCl) 1-L Amber	X																		
				Water	6 VOAs (HCl) 1-L Amber																			
				Water	6 VOAs (HCl) 1-L Amber																			
				Water	6 VOAs (HCl) 1-L Amber																			
				Water	6 VOAs (HCl) 1-L Amber																			
				Water	6 VOAs (HCl) 1-L Amber																			
Special Instructions:																								
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation or Carrier/Air Bill No.)																
				2/2/17 1548				Erol (VTO) 2/2/17 3:48																
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)																
				2/2/17 17:48																				
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)																

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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

*RAK/mc
2/9/2017*

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, INC.
LABORATORY REPORT

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 ID	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

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

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
VINYL CHLORIDE	75-01-4	1.76	ND
BROMOMETHANE	74-83-9	1.76	ND
CHLOROETHANE	75-00-3	1.76	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.76	ND
1,1-DICHLOROETHENE	75-35-4	1.76	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.76	ND
METHYLENE CHLORIDE	75-09-2	8.81	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.76	ND
1,1-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
1,1,1-TRICHLOROETHANE	71-55-6	1.76	ND
CARBON TETRACHLORIDE	56-23-5	1.76	ND
1,1-DICHLOROPROPENE	563-58-6	1.76	ND
BENZENE	71-43-2	1.76	ND
1,2-DICHLOROETHANE	107-06-2	1.76	ND
TRICHLOROETHENE	79-01-6	1.76	ND
1,2-DICHLOROPROPANE	78-87-5	1.76	ND
DIBROMOMETHANE	74-95-3	1.76	ND
BROMODICHLOROMETHANE	75-27-4	1.76	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.76	ND
TOLUENE	108-88-3	1.76	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.76	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.76	ND
TETRACHLOROETHENE	127-18-4	1.76	ND
1,3-DICHLOROPROPANE	142-28-9	1.76	ND
DIBROMOCHLOROMETHANE	124-48-1	1.76	ND
1,2-DIBROMOETHANE	106-93-4	1.76	ND
CHLOROBENZENE	108-90-7	1.76	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	1.76	ND
ETHYLBENZENE	100-41-4	1.76	ND
XYLENE (M+P)	1330-20-7	1.76	ND
XYLENE (O)	1330-20-7	1.76	ND
STYRENE	100-42-5	1.76	ND
BROMOFORM	75-25-2	1.76	ND
ISOPROPYLBENZENE	98-82-8	1.76	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.76	ND
BROMOBENZENE	108-86-1	1.76	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.76	ND
N-PROPYLBENZENE	103-65-1	1.76	ND
2-CHLOROTOLUENE	95-49-8	1.76	ND

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg dry weight

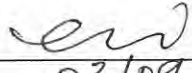
COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.76	ND
4-CHLOROTOLUENE	106-43-4	1.76	ND
TERT-BUTYLBENZENE	98-06-6	1.76	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.76	ND
SEC-BUTYLBENZENE	135-98-8	1.76	ND
1,3-DICHLOROBENZENE	541-73-1	1.76	ND
4-ISOPROPYLTOLUENE	99-87-6	1.76	ND
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

PERCENT MOISTURE	22.5
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NOTES:

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

APPROVED BY: 
DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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 CONC
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
1,1,2-TRICHLOROETHANE	79-00-5	22.2	ND
TETRACHLOROETHENE	127-18-4	22.2	ND
1,3-DICHLOROPROPANE	142-28-9	22.2	ND
DIBROMOCHLOROMETHANE	124-48-1	22.2	ND
1,2-DIBROMOETHANE	106-93-4	22.2	ND
CHLOROBENZENE	108-90-7	22.2	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	22.2	ND
ETHYLBENZENE	100-41-4	22.2	ND
XYLENE (M+P)	1330-20-7	22.2	ND
XYLENE (O)	1330-20-7	22.2	ND
STYRENE	100-42-5	22.2	ND
BROMOFORM	75-25-2	22.2	ND
ISOPROPYLBENZENE	98-82-8	22.2	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	22.2	ND
BROMOBENZENE	108-86-1	22.2	ND
1,2,3-TRICHLOROPROPANE	96-18-4	22.2	ND
N-PROPYLBENZENE	103-65-1	22.2	ND
2-CHLOROTOLUENE	95-49-8	22.2	ND

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg dry weight

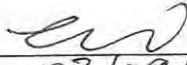
COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	22.2	ND
4-CHLOROTOLUENE	106-43-4	22.2	ND
TERT-BUTYLBENZENE	98-06-6	22.2	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	22.2	ND
SEC-BUTYLBENZENE	135-98-8	22.2	ND
1,3-DICHLOROBENZENE	541-73-1	22.2	ND
4-ISOPROPYLTOLUENE	99-87-6	22.2	ND
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

PERCENT MOISTURE	21.0
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NOTES:

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

APPROVED BY: 
DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

SAMPLE ID: TSX02-3.5-4.0
LAB NO: 151328
DATE SAMPLED: 02/02/2017
TIME SAMPLED: 11:10
BATCH NO: 013117S1
DATE ANALYZED: 02/06/2017

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
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
ISOPROPYLBENZENE	98-82-8	1.63	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.63	ND
BROMOBENZENE	108-86-1	1.63	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.63	ND
N-PROPYLBENZENE	103-65-1	1.63	ND
2-CHLOROTOLUENE	95-49-8	1.63	ND

K PRIME, INC.
LABORATORY REPORT

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

SAMPLE ID: TSX02-3.5-4.0
LAB NO: 151328
DATE SAMPLED: 02/02/2017
TIME SAMPLED: 11:10
BATCH NO: 013117S1
DATE ANALYZED: 02/06/2017

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	1.63	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

PERCENT MOISTURE	20.4
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NOTES:

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

APPROVED BY: 
 DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
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
XYLENE (M+P)	1330-20-7	1.65	ND
XYLENE (O)	1330-20-7	1.65	ND
STYRENE	100-42-5	1.65	ND
BROMOFORM	75-25-2	1.65	ND
ISOPROPYLBENZENE	98-82-8	1.65	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.65	ND
BROMOBENZENE	108-86-1	1.65	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.65	ND
N-PROPYLBENZENE	103-65-1	1.65	ND
2-CHLOROTOLUENE	95-49-8	1.65	ND

K PRIME, INC.
LABORATORY REPORT

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

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

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	1.65	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

PERCENT MOISTURE	21.4
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NOTES:

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

APPROVED BY: 

DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
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
ISOPROPYLBENZENE	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

K PRIME, INC.
LABORATORY REPORT

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

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

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

PERCENT MOISTURE	22.2
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NOTES:

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

APPROVED BY: 
DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg dry weight

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
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
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
ISOPROPYLBENZENE	98-82-8	1.63	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.63	ND
BROMOBENZENE	108-86-1	1.63	ND
1,2,3-TRICHLOROPROPANE	96-18-4	1.63	ND
N-PROPYLBENZENE	103-65-1	1.63	ND
2-CHLOROTOLUENE	95-49-8	1.63	ND

K PRIME, INC.
LABORATORY REPORT

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

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

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5035/8260

SAMPLE TYPE: SOIL
UNITS: µg/Kg dry weight

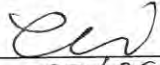
COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	1.63	ND
4-CHLOROTOLUENE	106-43-4	1.63	ND
TERT-BUTYLBENZENE	98-06-6	1.63	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.63	ND
SEC-BUTYLBENZENE	135-98-8	1.63	ND
1,3-DICHLOROBENZENE	541-73-1	1.63	ND
4-ISOPROPYLTOLUENE	99-87-6	1.63	ND
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

PERCENT MOISTURE	20.4
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NOTES:

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

APPROVED BY: 

DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

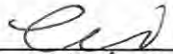
METHOD: DRO
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	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: 
DATE: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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

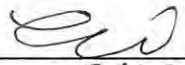
METHOD: HRO
REFERENCE: EPA 8015B

SAMPLE TYPE: SOIL
UNITS: mg/Kg dry weight

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	HRO 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	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: 02/09/17

K PRIME, INC.
LABORATORY REPORT

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


METHOD: PERCENT MOISTURE
REFERENCE: ASTM D 2216-05

SAMPLE TYPE: SOIL
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 CONC
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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
TPH-G	5.00	ND	5.08	102	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

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
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

K PRIME, INC.

LABORATORY BATCH QC REPORT

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

K PRIME, INC.
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 ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
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 LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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
TOLUENE	1.50	31.2	30.5	2.0	±20
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

K PRIME, INC.
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	REPORTING LIMIT	SAMPLE CONC
DRO	10.0	ND

SAMPLE ID: L020317S1
DUPLICATE ID: D020317S1

ACCURACY (MATRIX SPIKE)

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

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
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

K PRIME, INC.
LABORATORY BATCH QC REPORT

SAMPLE ID: 151281
DUPLICATE ID: 151281DUP
METHOD BLANK ID: B020217S1
BATCH NO: 020217S1
DATE ANALYZED: 02/03/2017

METHOD: PERCENT MOISTURE
REFERENCE: ASTM D 2216-05

SAMPLE TYPE: SOIL
UNITS: %

PRECISION (DUPLICATE)

ANALYTE	REPORTING LIMIT	PRIMARY RESULT	DUPLICATE RESULT	RPD (%)
% 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

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

www.ekiconsult.com

PHONE: 650-292-91

FAX: 650-552-9012

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED										GeoTracker Global ID #: T10000007323				
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchell		Method No.	EPA 8260	EPA 8015M	EPA 8015M	ASTM D2216	Percent Moisture	TPH-d / DRO	TPH-g / GRO	VOCs & MTBE	Extract and HOLD	HOLD	EXPECTED TURNAROUND TIME	Revision: _____ (A, B, C, D, etc.)		
Reporting: Electronic Format: EDF <u>Hard Copy Format:</u> 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 Mitchell: kmitchel@ekiconsult.com		Laboratory: K-Prime Laboratories, Inc. 3621 Westwind Boulevard Santa Rosa, CA, USA 95403 (707) 527-7574														Date: _____ By: _____		
Field Sample ID	Lab Sample No.	Date	Time	Matrix	Container Count & Type												Remarks	
TSXØ1-3.5-4.0	151326	2 Feb 17	0945	Soil	5 x 5-gram EnCore	4-oz glass jar	X	X										SLD ↓
TSXØ1-7.5-8.0	151327	2 Feb 17	0950	Soil	5 x 5-gram EnCore	4-oz glass jar	X	X										
TSXØ2-3.5-4.0	151328	2 Feb 17	1110	Soil	5 x 5-gram EnCore	4-oz glass jar	X	X										
TSXØ2-7.5-8.0	151329	2 Feb 17	11:20	Soil	5 x 5-gram EnCore	4-oz glass jar	X	X										
TSXØ1x-3.5-4.0	151330	2 Feb 17	1340	Soil	5 x 5-gram EnCore	4-oz glass jar	X	X										
TSXØ1x-7.5-8.0	151331	2 Feb 2017	1350	Soil	5 x 5-gram EnCore	4-oz glass jar	X	X										
Special Instructions: *Please report results on dry weight basis																		
Relinquished by: (Signature/Affiliation) <i>[Signature]</i>				Date & Time 2/2/17 15:48				Received by: (Signature/Affiliation or Carrier/Air Bill No.) <i>[Signature]</i> (UTC) 2/2/17 3:48										
Relinquished by: (Signature/Affiliation) <i>[Signature]</i> (UTC)				Date & Time 2/2/17 17:48				Received by: (Signature/Affiliation) <i>[Signature]</i>										
Relinquished by: (Signature/Affiliation)				Date & Time				Received by: (Signature/Affiliation)										

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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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PROJ: B20006.00 T7

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FROM: Richard A. Kage1, Ph.D.
Laboratory Director

*RAK by TJ
2/9/2017*

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: 1,1-DIFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
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: TJ
DATE: 2/9/2017

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B012617A1
SAMPLE TYPE: AIR

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

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

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		RL	SAMPLE CONC	RL	SAMPLE CONC
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

µg/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

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

SAMPLE TYPE: AIR
BATCH ID: 012617A1
DATE ANALYZED: 01/26/2017

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

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS 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 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 RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10900	10700	1.9	±30

NOTES:

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

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

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

ACCT: 9115
PROJ: B20006.00 T7

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. Kage1, Ph.D.
Laboratory Director

*RAK by TJ
2/9/2017*

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 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 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 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 RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1-DIFLUOROETHANE	10900	10700	1.85	±30

NOTES:

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

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100 FAX: 650-552-9012

Project Name: Horton St UST		Project No.: B20006.00 T7		ANALYSES REQUESTED				GeoTracker Global ID #: T10000007323																
Location: Emeryville, CA		Sampled By: G. Brunst & K. Mitchel, <i>A.R. Ford</i>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20px;">Method No.</td> <td style="width:100px;">EPA TO-3</td> <td style="width:20px;"></td> <td style="width:20px;"></td> <td style="width:20px;"></td> <td style="width:20px;"></td> <td style="width:20px;"></td> <td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">PLACE ON HOLD</td> </tr> <tr> <td>Analyte Group</td> <td>1,1-Difluoroethane (DFA)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Method No.	EPA TO-3						PLACE ON HOLD	Analyte Group	1,1-Difluoroethane (DFA)						Revision: _____ (A, B, C, D, etc.) Date: _____ By: _____	
Method No.	EPA TO-3										PLACE ON HOLD													
Analyte Group	1,1-Difluoroethane (DFA)																							
Reporting: Electronic Format: EDF Hard Copy Format: PDF EPA Data Report Level: II		Laboratory: K Prime, Inc. 3621 Westwind Blvd. Santa Rosa, CA 95403 707-527-7574 phone																						
<small>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</small>																								
Field Sample Identification	Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservative)			EXPECTED TURNAROUND TIME	REMARKS / Summa ID															
<i>TSV01-SHROUD</i>	<i>151336</i>	<i>2/2/2017</i>	<i>1526</i>	<i>Air</i>	<i>1 x 1-L summa</i>	<i>X</i>		<i>STD</i>	<i>S-855</i>															
Special Instructions: Please report both ppmv and ug/m ³ on the EDD. Please report DFA to results with 10 ppmv reporting limit.																								
Relinquished by: <i>[Signature]</i> <i>EKI</i>		Date: <i>2/2/17</i>	Time: <i>1550</i>	Received by: <i>[Signature]</i> <i>(VTC) 2/2/17 3:50</i>																				
Relinquished by: <i>[Signature]</i> <i>(VTC)</i>		Date: <i>2/2/17</i>	Time: <i>17:48</i>	Received by: <i>[Signature]</i>																				

ATTACHMENT 2

Borehole Logs

BOREHOLE LOCATION TC		Borehole/Well ID: TC		BOREHOLE DIAMETER(S) 8"	TOTAL DEPTH 14.5'	LOGGED BY G. Brunst
DRILLING COMPANY Gregg		DRILLER & HELPER(S) Brandon & Daniel		Project: Horton St UST	DAY/DATE STARTED 2/1/17	COMPLETED 2/1/17
DRILLING METHOD(S) & RIG USED HSA + Hand Auger 0'-5'		Project Number: B20006.00 T7		DEPTH TO WATER: INITIAL: FINAL: 3.2'		WEATHER:
ISOLATION CASING		SIZE & TYPE OF FILTER PACK		FROM TO		WELL COMPLETION TYPE / DESCRIPTION Neat cement to ground surface
BLANK CASING 1" PVC		FROM TO -0.5' 4.5'		SEAL		SAMPLING METHOD NOTES
PERFORATED CASING 1" PVC perforated		FROM TO 4.5' 14.5'		GROUT		

Depth (ft)	SAMPLE										Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	GRAIN SIZE DISTRIBUTION					FINE GR SOILS			Depth (ft)	ADD'L DESCRIPTION and NOTES (e.g. secondary color, mottling, gleying, historical mat'l's, staining, odors, paleosols, plant mat'l, contacts, bedding details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked)	
	Sample Type (see notes)	Sample Interval	Recovery	Blows	OVM	Time	Sample ID	Fill?	Gravel Fraction						Sand Fraction		Silt	Clay	Other	Mois-ture	Plas-ticity				Consist-ency
									C	M					C	M					D	L			
0													0							0	9:20 start				
1										AB Baserock			1	2.5 YR	M	C			M		1	Augering through backfilled excavation from 0'-9.5' bgs.			
2													2	4/3	C					2					
3													3							3					
4													4							4					
5													5							5					
6													6							6					
7													7							7	no staining; no odor				
8													8							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)

Depth (ft)	SAMPLE							Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	Munsell Color Code	GRAIN SIZE DISTRIBUTION					Moisture	FINE GR SOILS			Depth (ft)	ADD'L DESCRIPTION and NOTES <small>(e.g. secondary color, mottling, gleying, historical mat's, staining, odors, paleosols, plant mat', contacts, bedding details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked)</small>		
	Sample Type (see notes)	Sample Interval	Recovery	Blows	OVM	Time	Sample ID						Fill?	Gravel Fraction	Sand Fraction	Silt	Clay		Other	Plasticity	Consistency				
																								C M F	%
8								AB Baselock			8	2.5YR 4/3													
9											9														
10					1.5			Silty Sand w/gravel	SM		10		C M	F											Dark staining at bottom of backfill; has odor
11	nL				0.4						11														
12					0.3						12	10YR 4/4	M	F											
13	nL				0.0			clayey sand w/gravel	SC		13														
14					0.0						14														
14	nL				0.0						14		M												Water sample from 4.5 - 14.5 ft bgs No sheen observed
15					0.1	1/100	TC-4.5- 14.5				15														
16											16														
17											17														
18											18														

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)

BOREHOLE LOCATION		TN		Borehole/Well ID:		TN		BOREHOLE DIAMETER(S)		8"		TOTAL DEPTH		15.5'		LOGGED BY		G. Brunst						
DRILLING COMPANY		Gregg		(DRILLER & HELPER(S))		Brandon + Daniel		Project:		Horton St UST		DAY/DATE STARTED		2/1/17		COMPLETED		2/1/17		WEATHER:				
DRILLING METHOD(S) & RIG USED		HSA + Hand Auger 0'-5'		Project Number:		B20006.00 T7		DEPTH TO WATER		INITIAL		FINAL		WELL COMPLETION TYPE / DESCRIPTION		Neat cement to ground surface								
ISOLATION CASING		FROM		TO		SIZE & TYPE OF FILTER PACK		FROM		TO		SEAL		FROM		TO		SAMPLING METHOD NOTES						
BLANK CASING		1" PVC		0.5'		5.5'		GROUT		FROM		TO		ADD'L DESCRIPTION and NOTES										
PERFORATED CASING		1" PVC perforated		5.5'		15.5'		GRAIN SIZE DISTRIBUTION		Mois- ture <td colspan="2">FINE GR SOILS <th colspan="2">Plas- ticity</th> <td colspan="2">Consist- ency <th colspan="2">Depth (ft)</th> <td colspan="2">(e.g. secondary color, mottling, gleying, historical mat'l, staining, odors, paleosols, plant mat'l, contacts, bedding details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked)</td> </td></td>		FINE GR SOILS <th colspan="2">Plas- ticity</th> <td colspan="2">Consist- ency <th colspan="2">Depth (ft)</th> <td colspan="2">(e.g. secondary color, mottling, gleying, historical mat'l, staining, odors, paleosols, plant mat'l, contacts, bedding details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked)</td> </td>		Plas- ticity		Consist- ency <th colspan="2">Depth (ft)</th> <td colspan="2">(e.g. secondary color, mottling, gleying, historical mat'l, staining, odors, paleosols, plant mat'l, contacts, bedding details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked)</td>		Depth (ft)		(e.g. secondary color, mottling, gleying, historical mat'l, staining, odors, paleosols, plant mat'l, contacts, bedding details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked)				
Depth (ft)	Sample Type (see notes)	Sample Interval	Recovery	Blows	SAMPLE				Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	Munsell Color Code	GRAIN SIZE DISTRIBUTION					Mois- ture	FINE GR SOILS			Depth (ft)	ADD'L DESCRIPTION and NOTES
					OVM	Time	Sample ID	Fill?						Gravel Fraction	Sand Fraction	Silt	Clay	Other		Plas- ticity	Consist- ency			
													C M F	%	C M F	%	%	%	%	D M W	L M H	V S F H V H		
0								Asphalt			0													Asphalt; 11" thick
1	HA							x Sand w/gravel	SW		1	10YR 3/4 C		M C										
2	HA										2													
3	HA				0.0			clay	CL		3	2.5Y 2.5/1		F					M	M	V S			Bay mud
4	HA				0.0						4													
5	HA				0.0			sandy clay			5	10YR 3/1 M 10												
6	nL	21"			0.0			sandy clay	CL		6	10YR 3/2		F					M	L	F			
7	nL	21"			0.0			silty clay	CL		7	10YR 3/2 F < 5							M	M	H			some gravel up to 5mm no staining; no odor
8					0.0						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)

Depth (ft)	SAMPLE							Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	Munsell Color Code	GRAIN SIZE DISTRIBUTION					Moisture	FINE GR SOILS			Depth (ft)	ADD'L DESCRIPTION and NOTES <small>(e.g. secondary color, mottling, gleying, historical mat's, staining, odors, paleosols, plant mat'l, contacts, bedding details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked)</small>			
	Sample Type (see notes)	Sample Interval	Recovery	Blows	OVM	Time	Sample ID						Fill?	Gravel Fraction		Sand Fraction			Silt	Clay	Other			Plasticity	Consistency	
														C M F	%	C M F	%								%	%
8	nL	19"			0.0			sandy clay	CL		8	10YR 3/2									8					
9					0.1						9	10YR 4/4	F				M	M	H		9	gleying gley 15/10y medium gravels				
10					0.0						10	M 10									10					
11	nL	21"			0.0			sandy clay	CL		11		F				M	M	H		11	gleying				
12					0.0						12										12					
13	nL	21"			0.0			sandy clay w/ gravel	CL		13	M 15	F				M	M	H		13	medium gravels; mottling; gleying				
14					0.0						14										14					
15	nL	19"			0.2			Sand w/ gravel	SW		15	10YR 4/6					M	L	S		15	Sandy gravel lens gleying stops				
16					0.0						16	M	M/F								16					
17	nL	19"			0.0			Silty Sand w/ clay	SM/SC		17	M	F				M	M	F		17	Water Sample from 5.5-15.5 ft bgs No skew or odors observed				
18					0.0	1415 TN-5.5-15.5					18										18	TD at 12:00 pm				

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)

Depth (ft)	SAMPLE							Fill?	Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	Munsell Color Code	GRAIN SIZE DISTRIBUTION					FINE GR SOILS			Depth (ft)	ADD'L DESCRIPTION and NOTES <small>(e.g. secondary color, mottling, gleying, historical mat's, staining, odors, paleosols, plant mat', contacts, bedding details, fractures, coarse clast lithology, weathering/alteration; secondary porosity, drilling difficulty and rates, slough / reworked</small>
	Sample Type (see notes)	Sample Interval	Recovery	Blows	OVM	Time	Sample ID							Gravel Fraction	Sand Fraction	Silt	Clay	Other	Moisture	Plasticity	Consistency		
8					0.0			Silty Sand	SM			8		F				M	L	S	8	no odor ; no staining	
9	nL	21"			0.0			Silty Clay	CL			9						M	H	F	9	minor gleying	
10					0.0							10						M	M	F	10		
11	nL	19"			0.0			Silty Sand	SM			11									11	gravel content increasing with depth.	
12					0.0							12	10YR 5/6								12		
13	nL	20"			0.0							13		F				M	M	H	13		
14					0.0							14									14		
15	nL	0"			0.0							15									15	No recovery	
16					0.0			Silty gravel	GM			16									16		
17	nL	19"			0.0	1300	TSX02-5-15	Silty Sand	SM			17	C	C/M							17	Water sample from 5-15 ft bag No shen observed	
18									TD			18									18	TD at 1040 am	

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)

BOREHOLE LOCATION TW		Borehole/Well ID: TW		BOREHOLE DIAMETER(S) 8"	TOTAL DEPTH 14'	LOGGED BY G. Brunst
DRILLING COMPANY Gregg		DRILLER & HELPER(S) Brandon + Dustin		DAY/DATE STARTED 1/30	COMPLETED 1/30	WEATHER
DRILLING METHOD(S) & RIG USED HSA + Hand Auger 0'-5'		Project: Horton St UST		DEPTH TO WATER INITIAL 11.3'		WELL COMPLETION TYPE / DESCRIPTION Neat cement to ground surface
ISOLATION CASING		SIZE & TYPE OF FILTER PACK		FROM TO		SAMPLING METHOD NOTES
BLANK CASING		SEAL		FROM TO		
PERFORATED CASING		GRULIT		FROM TO		

Depth (ft)	SAMPLE										Name / Prelim Strat Unit	Graphic Log	Well Const	Depth (ft)	GRAIN SIZE DISTRIBUTION					FINE GR SOILS			ADD'L DESCRIPTION and NOTES		
	Sample Type (see notes)	Sample Interval	Recovery	Blows	OVM	Time	Sample ID	Fill?	Munsell Color Code	Gravel Fraction					Sand Fraction		Silt %	Clay %	Other %	Moisture	Plasticity			Consistency	
										C M F					%	C M F					%	%			%
0											Asphalt			0								Asphalt 9.75" diam. 9.75" thick			
1	2" ssl				0.0		y	Sand w/gravel	SW			1-10YR3/3 M/C	M/C				M				gravel up to 1.5" fines increasing with depth				
2	11				0.0																				
3	HA				0.0			Silty clay	CL			2.5Y 2.5/1	F				M M F				Silty clay with sand				
4	2" ssl				0.0																soil sample				
4	11				0.0	12 ³⁰						10YR3/2	F 25				M M F				distinct mottling				
5	HA		0"																						
6	nL		19"		0.0			sandy clay	CL			4.5Y 5/10Y	F 10 F				M L F				gravel up to 5mm gleying, distinct mottling				
7	nL		22"		1.4	12 ⁴⁵		silty clay	CL			10YR5/6	F				M L H				no staining, no odor / soil sample gleying				
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)

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

Well ID	Date Installed	Approximate Ground Surface Elevation (ft msl)	Drilling Method	Total Depth of Boring (ft bgs)	Well Casing Diameter (inches)	Total Depth of Well (ft bgs)	Isolation Casing Depth (ft bgs)	Screened Interval		Screen Length (ft)	Sand Pack Interval		Sand Thickness (ft)	Screen Slot Size (inches)	Elevation of Top of Casing (ft msl)
								(ft bgs)	(ft msl)		(ft bgs)	(ft msl)			
Former Marchant/Whitney Site															
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

Well ID	Sample ID	Sample Date	Well Screen Interval (ft bgs)	Well Screen Interval (ft msl)	Analytical Results (a,b)	
					TPH (ug/L)	
					TPH-diesel	TPH-motor oil
Former Marchant/Whitney Site						
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
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, shallow groundwater exposure, deep groundwater residential exposure, deep groundwater commercial/industrial 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 Screening Levels (ESLs)*, Interim Final 2016, San Francisco Bay Regional Water Quality Control Board, February 2016, Revision 3.