Additional Subsurface Investigation

Commissioned by:

WFGP LLC
C/O Ben Weinstein
425 15th Street
Oakland, CA 94612

Subject Site:

Commercial Property
964 A Street, Hayward, CA 94541
Alameda County

Project Number:

7371A

Date of Engagement:

September 11, 2017

Date of Report:

October 23, 2017

eScreenLogic

Dallas – Fort Worth – Sacramento

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WFGP LLC
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425 15th Street
Oakland, CA 94612

SUBJECT: Additional Subsurface Investigation (SI) – Project #7371A

PROPERTY: 964 A Street,
Hayward, CA 94541
Alameda County
(Herein after referred to as "subject site")

Dear Ben Weinstein,

eScreenLogic was contracted to perform an additional Subsurface Investigation (SI) at the above referenced subject site. The assessment was performed in general accordance with eScreenLogic's proposal #7371A.

PURPOSE:

This SI was intended to further define the potential extent of Chemicals of Concern (*herein referred to as COCs*) which were initially identified at the subject site by an Limited Subsurface Investigation (LSI) conducted in August 2017 by eScreenLogic. This SI is limited in scope and is intended to further the understanding of the extent of COCs in the subsurface at the site and help develop a site conceptual model for this site.

BACKGROUND

A previous All Appropriate Inquiry (AAI) report was conducted for the subject site by Basics Environmental on August 2,2017, the subject site consists of a rectangular-shaped tract of land with an area totaling approximately +/- 18,807-square feet, improved with approximately 9,642-square feet of business unit space across two subject buildings. At the time of the AAI, the subject site had one building on the western edge (964 A Street) and the second building on the eastern edge (974 to 980 A Street). The remaining portion of the subject site property consisted of asphalt parking.

During the AAI investigation (by Basics), the historical research identified a past land use of the subject site (964 A Street) as 'Salvatore Campo Auto Repair' and 'Comet Auto Supply' through a city directory search. On October 1, 1997, a permit was filed to close an abandoned underground storage tank (UST) in place by back filling with sand cement slurry. The permit was filed by Aqua Science Engineers, Inc. Subsequent inspections and testing did not list violations or a release. According to the associated site plan, the UST was located in the northwest corner of the parking lot at 964 A Street. According to ASE, in a letter to the City of Hayward dated September 30, 1997, "the UST was located approximately three-feet from the western edge of the subject building and foundation, approximately six feet underground, and removal would have threatened the structural integrity of the subject building."

"As part of previous auto repair business activities, various quantities of paints/lacquers/thinners, petroleum-based products including oils/lubricants/greases, potentially antifreeze/coolant, and potentially halogenated/chlorinated solvents were likely utilized in this region of the site."

These Recognized Environmental Conditions (RECs) identified within the AAI resulted in the completion of the initial LSI by eScreenLogic dated September 6, 2017 (eScreenLogic Project No. 7371). The LSI consisted of a sub-slab soil vapor investigation conducted in the western building (964 A Street). Four sub-slab soil vapor samples were collected as shown on Figure 1. The borings were placed as follows:

- SSV1 was located along the sanitary sewer alignment and representative of the display area in the western portion of the investigation area.
- SSV2 was located near the abandoned in-place UST as well as sewer alignment.
- SSV3 was located near a floor drain which ties into the main sewer alignment.
- SSV4 was located within the "back room" of the northeast portion of the investigation area. This "back room" had evidence of a wall vent, three ceiling vents, a 220volt ACV outlet, and significant oil staining on the wall; however, no floor drains.

Results of the LSI identified perchloroethylene (PCE), a halogenated volatile organic compound (VOC) in the sub-slab soil vapor sample collected from SSV4 (see Table 1). This was the only sample location where PCE was identified. Sample SSV4 was collected from the back northeastern corner "back room" of the building at 964 A St. The sole detection of PCE (2,400 µg/m3) was at a concentration slightly exceeding the Regional Water Quality Control Board (RWQCB), Environmental Screening Levels (ESLs) for vapor migration consideration into interior air of a commercial land use (2,100 µg/m3). Analysis of the other three subs-slab soil vapor samples did not detect the presence of VOCs; however, leak check chemical (isopropanol) was detected.

GEOLOGIC SETTING

The subject site is located in the San Francisco Bay Region, near the margin of the Pacific and North American crustal plates. Several major northwest-trending fault zones are located in the immediate vicinity including the San Andreas Fault Zone (the dominant fault zone in California), and a number of smaller fault zones. The active trace of the San Andreas fault zone is located about 20-miles west of the site. The active trace of the Calaveras/Hayward fault zone is located approximately at or adjacent to the southwest of the subject site beneath Mission Boulevard alignment to the west.

Geology beneath the site consists of alluvial fan and fluvial deposits, otherwise known as Qhaf. Qhaf deposits are assigned to the Holocene Santa Clara Formation, an unconsolidated, moderately sorted, permeable fine-grained sand and silt with gravel becoming more abundant toward fan heads. During this SI, lithology was identified during the installation of the soil borings to groundwater (see boring logs B1 & B2 in Appendix A). In general, the lithology consists of silts and clays derived from weathered marine sediments (silts and sand stones). Difficult drilling and augering conditions were encountered within the upper 5 feet of borings as weather bedrock was shallowly encountered. The occurrence of weathered bedrock at the hand auger locations within the building limited the depth of these borings to no more than 2.5 feet until auger refusal prevented deeper sampling. An outcrop of silt stone bedrock was observed along the immediate northern exterior of the building.

HYDROGEOLOGIC SETTING

Information regarding first depth to groundwater and flow direction were researched at the California Water Resources Control Board's website at https://geotracker.waterboards.ca.gov. Regionally, shallow groundwater flow direction is to the west-southwest in the direction of the San Francisco Bay. Locally, topography slopes southwesterly, generally corresponding to the direction of the onsite and local shallow groundwater flow direction. Based on sites investigated for groundwater within the general vicinity of the subject site, shallow groundwater is encountered between 15 to 30 feet below ground surface (BGS).

During this SI, the two exterior soil borings (B1 and B2) were drilled to a total depth of 22 feet BGS. Dry to moist lithology was observed to a depth of about 17 feet BGS, where soil samples began to show signs of wet to saturated conditions. Groundwater depth in B1 was about 19 feet BGS while it was about 21 feet BGS in the in B2. Boring B2 is in the general down gradient location from the "back room" (Figure 2)

UTILITY CLEARANCE AND PERMITTING

Prior to conducting the additional SI, Underground Service Alert (USA-north) was contacted and the site was marked for tentative boring locations (USA Ticket No. X726901298-00X). USA-North representatives did not identify any buried utilities within the general investigation area. In addition to the USA clearance, eScreenLogic submitted and received a boring permit (Permit No. W2017-0736) from Alameda County Public Works Agency. Copies of the boring permit and USA ticket are included in the Appendix A.

HEALTH AND SAFETY PLAN

A site-specific Health and Safety Plan was not required as part of this SI; however, eScreenLogic utilizes Occupational Health and Safety protocol under Hazardous Waste Operations & Emergency Response 29 CFR 1910.120 when performing LSIs. This protocol is designed to reduce the risk of physical or chemical exposures that may affect on-site workers within the work area. The Health and Safety protocols include information about anticipated COCs on the subject property, health and safety procedures for working on-site, and emergency response procedures. A tailgate H&S meeting was conducted prior to the additional SI on October 5, 2017. The work was conducted in Level D personal protection, with ambient air monitoring conducted in the breathing zone of the workers using a Photo Ionization Detector (PID) to screen for volatile organic compounds.

WORK PLAN

Due to the limited nature of this SI, a work plan was not required; however, a brief scope of services was presented to the Alameda County Public Works Agency as part of the regulatory boring permit required for this SI. The Scope of Work was conducted pursuant to the eScreenLogic's proposal #7371a and was primarily conducted as follows:

- Determine subsurface lithology and depth to groundwater at the site;
- Collect shallow soil samples within the area where PCE had been identified in sub-slab soil vapor;
- Collect additional sub-slab soil vapor samples to determine the lateral extent of PCE; and
- Obtain groundwater samples at the site to assess the potential impact from PCE.

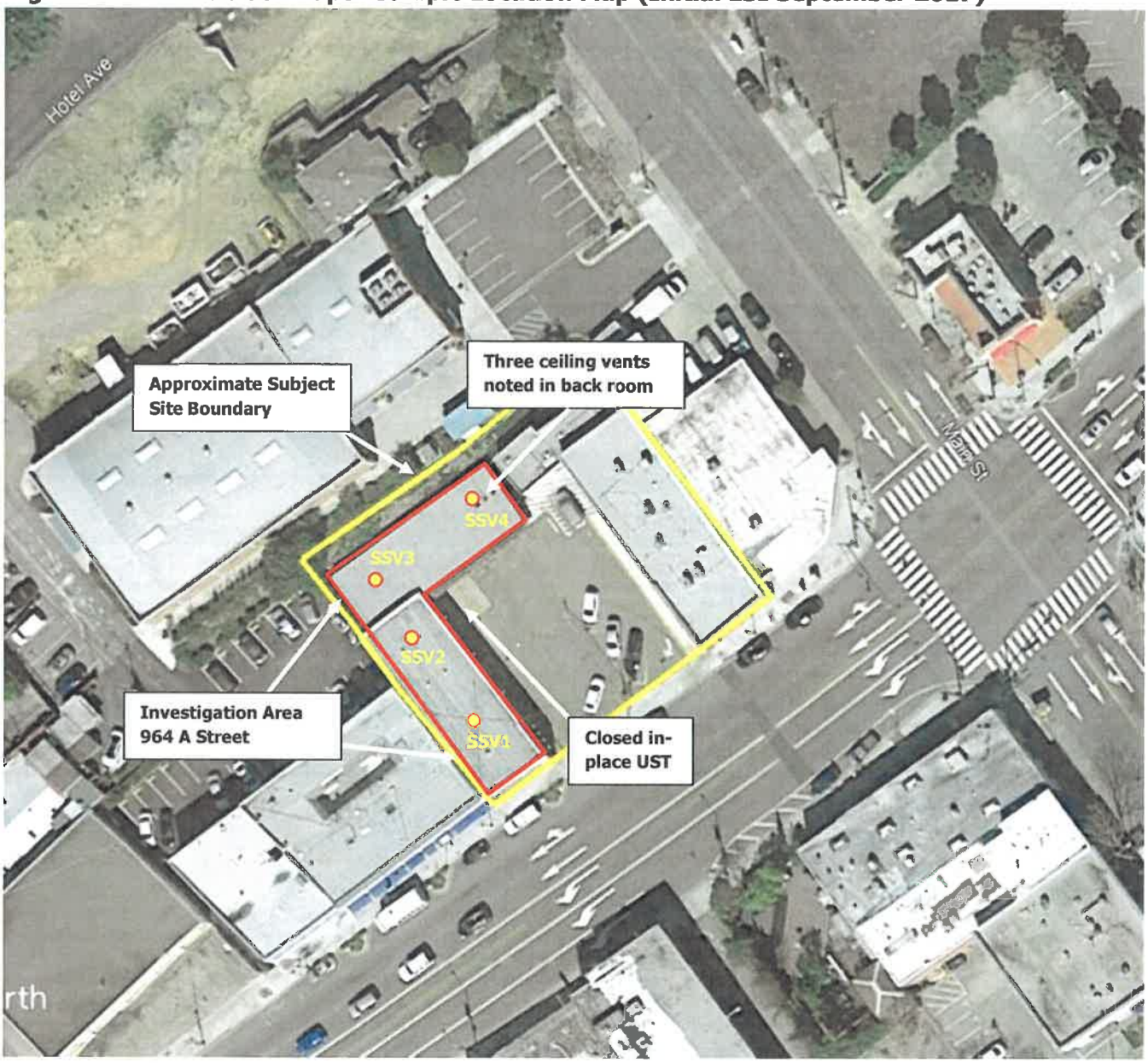
PREVIOUS SUBSURFACE INVESTIGATION

August 17, 2017

- eScreenLogic mobilized to the subject site to install four (4) sub-slab soil vapor points (SSV1 to SSV4) beneath existing asphalt parking lot (Figure 1).
- The sample locations were chosen to give adequate coverage across the site, to target suspected areas, as well as avoiding poor concrete conditions which could reduce sample recovery;
- SSV1 was located along the sanitary sewer alignment and representative of the display area in the western portion of the investigation area. SSV2 was located near the abandoned in-place UST as well as sewer alignment. SSV3 was located near a floor drain which ties into the main sewer alignment. SSV4 was located within the back room of the northeast portion of the investigation area. This "back room" had evidence of a wall vent, three ceiling vents, a 220-volt ACV outlet and significant oil residue on the walls.
- At each sample location, a roto-hammer drill was used to drill through the concrete slab and just into the aggregate base beneath this surface. The concrete thickness varied, but averaged about 6 inches;
- A screened soil vapor port was installed through each hole into the aggregate base, and was bedded with a clean sand. Hydrated bentonite was used at the surface as an air-tight seal with the slab;
- Once the sample point was installed and bentonite seal completed, the sample point was allowed to equilibrate for approximately 30 to 60-minutes prior to sample collection;

- A vacuum hand pump was used to purge the sample line and evaluate subsurface flow conditions. Good flow conditions was observed in all the samples;
- The vacuum hand pump was also used to perform a vacuum leak check of the sample train (flow regulator and tubbing connected to the suma canister) prior to connection of the sample point;
- The samples (SSV1 to SSV4) were collected within a leak-check shroud using isopropyl alcohol (2-propanol) as the leak-check chemical; and,
- Upon completion of the sample collection, the hydrated bentonite was used to plug the hole at each test location.

Figure 1 - Sub-Slab Soil Vapor Sample Location Map (Initial LSI September 2017)



Note: Not to scale.

ADDITIONAL SUBSURFACE INVESTIGATION

October 5, 2017

- eScreenLogic mobilized to the subject site with Cascade Drilling to install two (2) direct push borings B1 and B2 on the exterior of the building and in the general downgradient location of the northeast "back room" and three (3) hand auger samples from within the "back room" boring B3 through B5 (Figure 2);
- Boring B1 was continuous cored with a truck mounted GeoProbe and was able to obtain a total depth of 22 feet below ground surface (BGS). Soil samples (for chemical analysis) were collected from 12 and

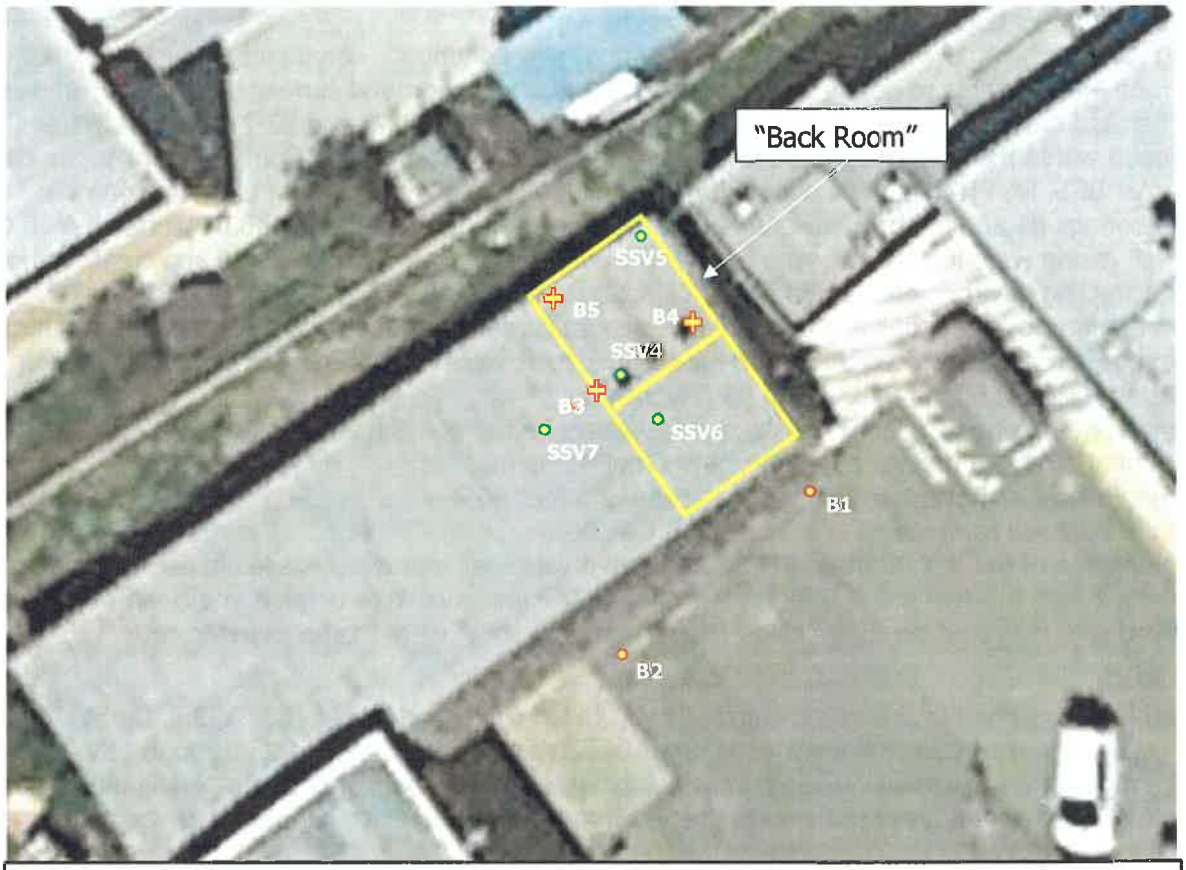
21 feet BGS (B1-12 and B1-21). Groundwater developed within the boring and groundwater sample B1GW was collected from an approximate depth of 19 feet BGS. No PID hits were detected in the soil logged within this boring (see boring log, Appendix A);

- Boring B2 (the most downgradient positioned boring) was continuous cored with a truck mounted GeoProbe and was able to obtain a total depth of 22 feet below ground surface (BGS). Soil samples (for chemical analysis) were collected from 12 and 21 feet BGS (B2-12 and B2-21). Groundwater developed within the boring and groundwater sample B2GW was collected from an approximate depth of 21 feet BGS. No PID hits were detected in the soil logged within this boring (see Appendix A);
- Within borings B1 and B2, groundwater conditions were encountered and new 0.01 slotted 1-inch OD PVC well casing were installed in each boring to allow water to come into the hole and create a more stable sampling environment. Groundwater samples were collected from each boring B1 and B2.
- Within the interior of the building the driller (Cascade) cored the concrete at three locations within the "back shop" area. at each cored location hand auger tools were used to sample the shallow soil beneath the slab in boring B3 through B5 (Figure 2).
- At hand auger boring location B3, a soil sample was collected at 1.5 feet BGS. Boring B3 had the only PID reading of all the borings at a concentration of 45 ppm.
- At boring B4 soil samples were collected at 1 and 2.5 feet BGS.
- At boring B5 a soil sample was collected a 1.5 feet BGS.
- On completion of Borings B3 through B5, a screened vapor implant was installed in each of the borings at depths 2 feet, 1.5 feet and 1.5 feet, respectively. The implants were bedded in a clean sand and backfilled with hydrated bentonite chips. These "vapor probes" were then allowed to rest.

October 6, 2017

- eScreenLogic returned to the site to sample the installed soil vapor probes (B3-SV-2.0, B4-SV-1.5, and B5-SV-1.5) as well as to install three additional subslab soil vapor probes (SSV5 through SSV7). These vapor probes and subslab soil vapor sample points were located to aid in the lateral delineation of shallow PCE soil vapor detected beneath the "back room" in the previous subslab soil vapor sample SSV4.
- At each subslab soil vapor location, each sample point was prepared as previously explained for the August 17, 2017 sampling event;
- The vapor samples (B3-SV-2.0, B4-SV-1.5, B5-SV-1.5, and SSV5 through SSV7) were collected within a leak-check shroud using isopropyl alcohol (2-propanol) as the leak-check chemical;
- Each sample point was purged using a vacuum hand pump. Every point was observed to have "good" vapor flow conditions;
- Vapor samples were collected within 1-liter suma canisters from each point.
- Upon completion of the sample collection, the hydrated bentonite was used to plug the hole at each test location.

Figure 2 – Additional Subsurface Investigation Sample Locations



Note: Shallow soil borings B3 to B5 were converted to soil vapor samples points B3-SV-2.0, B4-SV-1.5, B5-SV-1.5 as indicated by the cross hatches

SAMPLING AND ANALYTICAL METHODS

Soil Samples

Soil samples collected from the GeoProbe (from boring B1 and B2) were retained within the acetate liners placed within the probes. Select depths were kept for chemical analysis. These samples were cut to approximate 4-inch lengths, capped with Teflon tape and then capped with plastic endcaps. Soil samples collected from the hand auger (from boring B3 to B5) were transfer quickly from the auger directly into 4-oz wide-mouth jars which were equipped with Teflon screw lids. The samples were collected to ensure that little to no air gaps were present. The soil samples were labeled, logged onto chain of custody, placed on ice, and were transferred to CLS Analytical Laboratory of Rancho Cordova, CA for chemicals analysis of VOCs using EPA method 8260B.

Groundwater Samples

Within the soil borings (B1 and B2), groundwater was reached. New 0.01 screen, 1-inch OD PVC well casing was installed within in each boring. Water was grabbed from each boring using a cleaned stainless steel "pencil" bailer. Groundwater samples were carefully transferred into hydrochloric acid preserved 40 ml VOA vials (three each for each sample). The groundwater samples were labeled, logged onto chain of custody, placed on ice, and were transferred to CLS Analytical Laboratory of Rancho Cordova, CA for chemicals analysis of VOCs using EPA method 8260B.

Soil Vapor Samples

The soil vapor samples were collected from beneath the subject site to aid in the lateral characterization of sub-slab soil vapor PCE concentrations. The samples were collected within evacuated 1-Liter summa canisters provided by the analytical laboratory (Eurofins, Air Toxics of Folsom, CA). Flow controllers were used to meter the flow in to each evacuated canister and prevent stripping of COCs from the sub-slab media. Isopropyl alcohol (2-propanol) was used as the leak-check chemical. Upon sample collection, the samples were logged onto chain of custody and shipped to the laboratory for analysis by Method TO-15 (for COCs).

The soil vapor samples were collected per industry standards and in general accordance with established State of California, Environmental Protection Agency (EPA) and/or ASTM standards. Soil vapor samples were collected generally following a methodology based on the Department of Toxic Substances Control (DTSC) Advisory for Active Soil Gas investigations (DTSC, 2012, updated and finalized July 2015).

ANALYTICAL RESULTS

The following analytical results are based on the sampling and analysis conducted as part of the SI performed at the subject site in accordance with eScreenLogic's proposal #7371a engaged on September 11, 2017. The purpose of this SI was to further investigate the possible presence of COCs in the "back room" area of the subject site, and was performed in general conformance with ASTM and DTSC standards. Sampling procedures and analytical methods are based on State of California standard practices and regulatory guidelines; and, were intended provide additional site characterization and better the understanding of the extent of contamination in the various subsurface media (soil, vapor, and groundwater).

The analytical results were compared against the relatively conservative Tier 1 Environmental Screening Levels (ESL) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) and are summarized in Tables 1 through 3. The established ESLs referenced in this SI are for screening purposes and do not constitute cleanup levels; however, they are helpful in evaluating potential risk the ESLs provide conservative estimates of potential risk to human health as compared against the current commercial standard.

Analytical Soil Results

A copy of the analytical laboratory report which includes soil and groundwater results is provided in Appendix B. The soil samples were analyzed for VOC using EPA Method 8260B. No VOCs were reported above the analytical reporting limits.

Analytical Groundwater Results

Table 2 provides a summary of the analytical results associated with the two grab groundwater samples (B1GW and B2GW) which were collected as well as the Trip Blank. Trace detections of benzene and xylenes were detected in B1GW. Trace detections of benzene, toluene, naphthalene, PCE and xylene were reported in the sample of B1GW. No VOCs were reported above analytical reporting limits in the Trip Blank. The analytical report with groundwater results is found in Appendix B.

Soil Vapor Results

The analytical soil vapor results from the LSI and SI are summarized in Tables 1 and 3, respectively. Perchloroethylene (PCE) and TPH as gasoline ranged organics (TPH-GRO) were reported in sample SSV4 (Table 1). During the additional SI, PCE was the predominant VOC detected; however, sporadic detections of chloroform, 1,1,1-TCA, and trichloroethylene, and naphthalene were also detected (Table 3). None of the chemicals identified during the additional SI were at concentrations exceeding ESLs (Table 3). The leak check chemical (2-Propanol) was identified in soil vapor samples and at greater concentrations in the sub-slab soil vapor samples than in the soil vapor samples collected from the converted soil boring locations.

As mentioned, detection of 2-propanol (leak check chemical) was reported in soil vapor samples. The leak check is performed to evaluate if there are "gross" leaks within the sample train of the sampling apparatus during the vapor collection process. Due to the sensitivity of air and soil vapor sampling and analysis, it is not unexpected to see detections of the leak check compound in the vapor samples. In a worst-case scenario, if the concentration of the leak check exceeds 0.005 % volume (50 parts per million volume or PPMV) the sample integrity is considered compromised and sample results should be considered qualitative. 50 PPMV of 2-propanol equates to a vapor concentration of 122,883 µg/m3 which is about 3.8 times above the greatest concentration reported (32,000 µg/m3) which was observed in SSV7. The presence of higher concentrations of the leak check compound resulted in elevated reporting limits of COCs in the vapor samples.

Table 1 – Previous Sub-Slab Soil Vapor Results (August 17, 20917)

Soil Vapor (µg/m3)					
ANALYTE	**SFBRWQCB ESL Soil Vapor**	**SSV1**	**SSV2**	**SSV3**	**SSV4**
Acetone	140,000,000	730	320	1,000	1,100
Ethanol	NE	<180	<180	<180	<180
Benzene[1]	420	<76	<75	<75	<76
Toluene[1]	1,300,000	<89	<89	<88	<90
Naphthalene[1]	360	<500	<490	<490	<500
TPH-Gasoline Range[1]	2,500,000	<3900	<3900	<3800	26,000
Trichloroethene (TCE)[2]	3,000	<130	<130	<120	<130
Perchloroethene (PCE)[2]	2,100	<160	<160	<160	**2,400**
2-Propanol (isopropyl alcohol) *	NE	64,000	68,000	75,000	64,000
Sample Date		8/17/17	8/17/17	8/17/17	8/17/17
ESL – Environmental Screening Levels (SFBRWQCB) Commercial land use standard.					
1 – Petroleum-Related COC **2 –** Degreasing-Related Chemicals COC NE = No ESL Established					
PCE slightly exceeded the commercial Environmental Screening Level (ESLs) in sample SSV4. The reporting levels for naphthalene slightly exceed the ESL for this compound in the soil vapor samples.					
***Note:** Leak check chemical (2-propanol) was detected (reporting limits raised). If 2-Propanol concentrations exceed 122,883 µg/m3, the sample result should be considered qualitative in nature and used with caution.					

Table 2 – Groundwater Sample Results

Groundwater (µg/L)				
ANALYTE	**ESL Shallow GW**	**B1GW**	**B2GW**	**TRIP BLANK**
Benzene[1]	9.7	0.59	1.1	<0.5
Toluene[1]	30,000	<0.5	0.61	<0.5
Naphthalene[1]	170	<0.5	2.0	<0.5
Perchloroethene (PCE)[2]	26	<0.5	3.5	<0.5
Xylenes	10,000	2.3	1.7	<1.0
Sample Date		10/5/17	10/5/17	10/5/17
ESL – Environmental Screening Levels (SFBRWQCB), Non-drinking water, shallow (Vapor intrusion to commercial land use standard).				
1 = Petroleum-Related COC: **2 =** Degreasing-Related COC				
Note: Trip Blank prepared in field and used a QA/QC for evaluation of possible cross contamination during field sampling.				

Table 3 – Additional Soil Vapor Results

Soil Vapor (µg/m3)							
ANALYTE	**ESL Soil Vapor**	**B3-SV-2.0**	**B4-SV-1.5**	**B5-SV-1.5**	**SSV5**	**SSV6**	**SSV7**
Acetone	140,000,000	79	150	BRL	610	590	650
Ethanol	NE	11	BRL	BRL	BRL	BRL	BRL
Benzene[1]	420	ND	BRL	BRL	BRL	BRL	BRL
Toluene[1]	1,300,000	6.8	BRL	BRL	BRL	BRL	BRL
Naphthalene[1]	360	ND	17	BRL	BRL	BRL	BRL
TPH-Gasoline Range[1]	2,500,000	24,000	1,100	BRL	BRL	BRL	BRL
Cyclohexane[1]	NE	4.5	9.8	BRL	BRL	BRL	BRL
Chloroform[2]	530	25	8	7.4	BRL	BRL	BRL
Trichloroethene (TCE)[2]	3,000	10	178	BRL	BRL	BRL	BRL
Perchloroethene (PCE)[2]	2,100	280	1500	130	610	1,000	220
1,1,1-Trichloroethane	4,400,000	BRL	8.2	BRL	BRL	BRL	BRL
2-Propanol (isopropyl alcohol) *	NE	68	120	BRL	20,000	22,000	32,000
Sample Date		10/6/17	10/6/17	10/6/17	10/6/17	10/6/17	10/6/17
ESL – Environmental Screening Levels (SFBRWQCB) Commercial land use standard.							
1 = Petroleum-Related COC: **2 =** Degreasing-Related Chemicals COC: **BRL** = Below Reporting limit (see analytical report)							
PCE slightly exceeded the commercial Environmental Screening Level (ESLs) in sample SSV4. The reporting levels for naphthalene slightly exceed the ESL for this compound in the soil vapor samples.							
***Note:** Leak check chemical (2-propanol) was detected (reporting limits raised). If 2-Propanol concentrations exceed 122,883 µg/m3, the sample result should be considered qualitative in nature and used with caution.							

The results of the PCE in the subslab and shallow soil vapor samples were plotted on the investigation map and are presented below.

Figure 3 – Approximate Soil Vapor PCE Concentration Isopleths (in µg/m3)

CONCLUSIONS

The following conclusions are based on the two subsurface investigations conducted at the subject site in August 2017 (eScreenLogic Project No. 7173) and in October 2017 (eScreenLogic Project No. 7173A):

Progression of Work Performed

- Initial LSI (August 2017) identified PCE in the soil vapor I the northeast room of 964 A St which slightly exceeded ESLs for commercial land use;
- Additional investigation was recommended to focus on the "back room". This "back room" had three ceiling vents, two wall vents and a 220 Volt power outlet. Significant oil staining appeared on the wall of this room. From all appearances, this room may have been used for some form of automobile parts washing/cleaning; however, there was no historical record of this in the previous AAI (Basics Environmental, 2017).
- The additional SI focused on the "back room" and field work was completed on October 5-6, 2017.

- Two deep soil borings (B1 and B2) were installed in general downgradient location of the "back room". Temporary wells were set and groundwater was collected at each boring (19 feet BGS and 21 feet BGS, respectively for B1 and B2);
- Three hand auger soil borings (B3-B5) were attempted in the "back room". The presence of bedrock in this area prevented sampling any deeper than about 2.5 feet; however, shallow soil samples from these boring were collected for chemical analysis;
- The shallow soil borings were converted to soil vapor sample points and three additional subslab soil vapor samples were also added to aid in the definition of the lateral extent of PCE in shallow soil vapor/subslab soil vapor.

Extent of Chemicals Identified

- Shallow soil sampling and analysis did not identify VOCs above analytical reporting limits in the samples analyzed in the suspected source area. This tends to indicate that soil contamination is minimal and is not representative of "gross" contamination within the areas sampled;
- The additional soil vapor sampling identified the approximate lateral extent of PCE above and below acceptable ESL for commercial land use. The highest soil vapor concentration of PCE was found in during the original sub-slab soil vapor sampling event conducted in August 2017 at SSV4 at a concentration of 2,400 µg/m3). The more recent soil vapor sampling the "high" concentration and are at concentrations which are less than the commercial ESL (2,100 µg/m3).
- The results of the soil vapor sampling tend to indicate that the VOC (PCE) contamination is fairly localized to the "back room" area and seems to fit the theory that some former VOC use in this back room likely occurred.
- Groundwater from B1GW detected a trace concentrations of benzene and xylene (both well below ESLs for groundwater). The groundwater sample from B2GW (this is the most downgradient sample point from the "back room") detected trace concentrations of benzene, naphthalene, PCE, toluene, and xylenes. These were all detected at concentrations below ESL risk levels (shallow groundwater for vapor intrusion consideration into commercial air).
- The presence of naphthalene and TPH-ranged organics in the soil vapor, as well as naphthalene, benzene, toluene and xylenes in the groundwater, appear to indicate the historic automotive-related land use impact to these media.
- The results of the three different media sampling (soil, spoil vapor, and groundwater) and chemical analysis of those samples, have shown that contamination appears fairly localized to the "back room" area. Shallow soil vapor media and groundwater have been impacted by the historic activities at the subject site, but do not appear to be at levels that would warrant a costly remediation.

RECOMMENDATIONS

Based on these results of the initial LSI and the additional SI, it appears that the subsurface beneath the "back room" has been impacted by historic automotive use at the subject site. The extent of this impact appears limited and not" grossly" impacted. The following recommendations are made.

- No additional assessment is recommended now until regulatory oversight is sought.
- The results of the investigation should be submitted to the following regulatory entity:
  Alameda County Department of Environmental Health
  Local Oversight Program (LOP)
  1131 Harbor Bay Parkway
  Alameda, CA 94502-6577
  Deh.loptoxic@acgov.org

  eScreenLogic discussed procedures for reporting with Alameda County, who indicated that the report can be submitted electronically to the above email address.
- Prior to demolition and replacement of concrete flooring in the location of the "back room" a soils management plan and worker health and safety plan is recommended to be developed in concert with any requirements established by appropriate regulatory oversight.

STANDARD OF CARE AND LIMITATIONS

This SI investigation was performed in general accordance with eScreenLogic's proposal #7371a. No other warranties, either expressed or implied, apply to the services herein.

To accurately represent the services performed, eScreenLogic notes that it does not and cannot represent that the subject site contains no hazardous material, products, underground storage tanks (USTs), and/or other latent conditions beyond the Scope of Work for this SI.

eScreenLogic cannot warrant the accuracy of prior reports and/or services performed by other firms at the subject site. Findings and Conclusions conveyed herein are based upon the limited and included data obtained on a specific date; such conditions are subject to change.

The clauses of eScreenLogic's General Terms & Conditions (T&C) are incorporated herein by reference in this proposal with the same force and effect as though set forth in full text. A copy of the T&C is available upon written request. **ESCREENLOGIC'S LIABILITY, IF ANY, FOR ANY CLAIM, COSTS, LOSS OR DAMAGE RESULTING FROM ESCREENLOGIC'S NEGLIGENCE, IF ANY, RELATING TO THIS AGREEMENT OR THE WORK PERFORMED PURSUANT HERETO SHALL NOT EXCEED THE AMOUNT OF THE PAYMENT(S) ACTUALLY RECEIVED BY ESCREENLOGIC HEREUNDER; PROVIDED, HOWEVER, ESCREENLOGIC'S LIABILITY, IF ANY, FOR CLAIMS INVOLVING ACTS, ERRORS, OR OMISSIONS IN THE RENDERING OF PROFESSIONAL SERVICES ("PROFESSIONAL LIABILITY") SHALL NOT EXCEED THE AMOUNT OF INSURANCE MAINTAINED BY ESCREENLOGIC. I/WE HAVE BEEN ADVISED THAT ESCREENLOGIC CURRENTLY MAINTAINS PROFESSIONAL LIABILITY INSURANCE IN THE AMOUNT OF $2,000,000.** This agreement shall be governed by and construed in accordance with the laws of the State of Texas (without regard to its conflicts of laws provisions). The parties hereto hereby agree that venue of any action under this agreement shall be exclusively in Tarrant County, Texas, and that this agreement is performable in part in Tarrant County, Texas. Information, estimates and opinions furnished to EScreenLogic during the course of the assessment, and contained in the report, will be obtained from sources considered reliable and believed to be true and correct. However, eScreenLogic makes no independent investigation as to such matters and undertakes no responsibility for the accuracy of such items. All facsimile transmissions, accompanying documents, and signatures shall be treated as original documents and shall bind and inure the parties involved in this agreement. The Parties agree to make good-faith efforts to settle any dispute or claim that arises under this Agreement or the work

performed pursuant hereto through discussion and negotiation. The dispute resolution process will be initiated by either party giving the other party written notice that a dispute exists ("Notice of Dispute"), setting forth the facts and circumstances surrounding the dispute. Within fifteen (15) days of the delivery of the Notice of Dispute, the Parties shall meet at a mutually acceptable date, time and place, attempting to informally resolve the dispute. If the dispute has not been resolved through negotiations, the Parties agree that any claim or action relating in any way to this Agreement or the work performed pursuant hereto, shall be resolved through binding arbitration pursuant to the rules of the American Arbitration Association. The site of any arbitration proceedings shall be Tarrant County, Texas, unless otherwise agreed to by the Parties.

RELIANCE

This LSI report has been prepared for the exclusive use and reliance of the Client. Use or reliance by any other party is prohibited without the written authorization of eScreenLogic. Reliance on the LSI by the Client shall be subject to the engagement agreement/scope of work executed by the Client.

If you have any questions about the report, or if we can be of any further service to you please do not hesitate to contact us at (916) 288-8177 or www.escreenlogic.com.

Chad Cadenhead, P.G. (Lic #11462), CAPM (Lic #0000553), CESCO (Cert #356667150)
Principal & Senior Geologist

REGISTERED PROFESSIONAL ENGINEER
ROBERT STEVEN FAGERNESS
No. C053220
Exp. 6/30
CIVIL
STATE OF CALIFORNIA

Robert S. Fagerness, PE (Lic #C053220)
Senior Engineer

APPENDIX A

PERMIT, USA TICKET, MISC. FIELD NOTES

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 09/26/2017 By jamesy

Permit Numbers: W2017-0736
Permits Valid from 10/05/2017 to 10/06/2017

Application Id:	1505325306947	**City of Project Site:** Hayward
Site Location:	964 A St, Hayward, CA 94541, USA	
Project Start Date:	10/05/2017	**Completion Date:** 10/06/2017
Assigned Inspector:	Contact Eneyew Amberber at (510) 670-5759 or eneyew@acpwa.org	
Applicant:	eScreenLogic - Robert Fagerness 510-209-9729 11294 Gold Country Blvd., Suite 165, Gold River, CA 95670	**Phone:** 916-288-8176
Property Owner:	WFGP LLC 425 15th Street, Oakland, CA 94612	**Phone:** 510-763-3066
Client:	Robert Fagerness 11249 Gold Country Blvd., Ste 165, Gold River, CA 95670	**Phone:** 916-288-8176
Contact:	Robert Fagerness	**Phone:** 916-288-8176 **Cell:** 916-296-5138

	Total Due:	$265.00
Receipt Number: WR2017-0443	**Total Amount Paid:**	$265.00
Payer Name : Robert S Fagerness	Paid By: VISA	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 5 Boreholes
Driller: Cascade Drilling, LP - Lic #: 938110 - Method: DPcpt

Work Total: $265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2017-0736	09/26/2017	01/03/2018	5	2.50 in.	45.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no

case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

811 express

Your ticket number is X726901298-00X. and will be active until 10/24/2017 11:59 PM. If your work is going to continue past that date, contact USA North 811 to extend your ticket. If at any time you need your dig site remarked, it is your responsibility to contact USA North 811 and request your site to be remarked.

After our members have responded to your request, it is your responsibility to notify USA North if you need the members to re-mark their facilties.

If you excavate and damage facilities prior to our Member' response to mark their facilities, you may be liable for those damages.

You can also get a copy of your ticket by going to: www.usanorth811.org and selecting Ticket Copy

Contact Information

Service Area	Day Phone	Emergency Phone	Vacuum Phone	After Hours
AT&T TRANSMISSION CAL	800-241-3624	800-241-3624		800-241-3624
COMCAST-HAYWARD	510-266-3360	888-824-8399		888-824-8399
CITY HAYWARD	510-881-7970	510-881-7933		510-385-1078
CITY HAYWARD	510-881-7970	510-881-7933		510-385-1078
LAVWMA	925-846-4565	925-570-7878	925-570-4161	925-519-0557
MCI WORLDCOM	469-866-4224	800-624-9675		800-624-9675
ORO LOMA SANITARY DIST	510-481-6999	510-276-4700		510-276-4700
PACIFIC BELL		510-645-2929	510-645-2929	800-332-1321
PGE DISTR HAYWARD	510-784-2158	800-743-5000	800-743-5000	800-743-5000
TELEPORT COMM SFO	650-280-6648	800-241-3624		800-241-3624

7371A HAYWARD 10/5/17 B1

MONITORING WELL LOG FORM

BORING LOCATION

Project: HAYWARD Project No: 7371A
Date Drilled: 10/5 Date Completed: 10/5
Logged By: RSE

Boring ID: B1
Northing: _____ Easting: _____

Water Elevation (ft): 19' BGS
Date Measured: 10/5/17

Ground Surface Elevation (ft.): _____
Measuring Point (MP) Elevation (ft.): _____
MP is Top of PVC Casing Datum: NGVD (1929)

Total Depth (ft.): 22
Diameter (in.): 2.5

Drilling Contractor: CASCADE
Drilling Method: DIRECT PUSH

Screen: Diameter _____ Depth _____ Slot Size _____
Casing: Diameter _____ Length _____ Type _____
Sand _____ Bentonite Seal _____ Cement Grout Seal _____

PID

DEPTH (FEET)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX. PID READING (ppm)	BLOWS (6 IN.)	SAMPLE TYPE*	SAMPLE RECOVERY	USCS/ASTM CLASSIFICATION	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (USCS name; color; size and angularity of each component or plasticity; density; moisture content; additional facts)	ELEVATION (FEET)
0				0					GM	ASPHALT/GRAVEL ≈ 4"	
2				0					SM	FINE SAND/SILT, DRY, DENSE 10YR4	
4				0					ML	SILT W/ CEMENTING 10YR/3	
6				0					ML	SILT/SAND-SILT, DRY, DENSE BROKEN SILT STONE, HARD DRILLING CONDITIONS	
8				0					ML	LIMITED RECOVERY DENSE, CEMENTED SILT/SILT STONE, DRY HARD, MINIMAL RECOVERY	
10				0					—	DENSE, HARD, DRY SILT, NO ODOR CLAYEY GRAVEL (PEA) CHIPS, MOIST 10YR2	
12				0					ML	MINIMAL RECOVERY SILT STONE CEMENTED SILT HARD, DRY SOME SMALL ANG. PEA GRAVEL 5Y3	
14				0					ML	WEATHERED SILT STONE, CRUMBLES, MOIST 10YR MOIST @ 17'	
16				0						▼ G.W. ≈ 19-20'	
18											

B1-12
0825

PROJECT NO. 7371A

* C California Split Spoon Sampler (2.5" I.D.)
S Standard penetration test sampler
c Cuttings
▼ Elevation of ground water

PAGE 1 OF 2

B1

7371A - HAYWARD 10/5/17 B1

Project: _____ Project No: 7371A

Boring ID.: B1

DEPTH (FEET)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX. PID READING (ppm)	BLOWS (6 IN.)	SAMPLE TYPE	SAMPLE RECOVERY	USCS/ASTM CLASSIFICAT.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (USCS name; color; size and angularity of each component or plasticity; density; moisture content; additional facts)	ELEVATION (FEET)
20				0					ML	WEATHERED SILT STONE, CRUMBLES, HARD/DENSE, MOIST, NO ODOR 5Y3	
22										SATURATED, G.W COMING IN TO HOLE	
										SCREEN SET TO ALLOW H_2O TO COME INTO HOLE	
24										BOTTOM OF HOLE 22'	
										GROUNDWATER ≈ 19-20'	
26											
28											
30											
32											
34											
36											
38											

B1-21 900

09:30

BORING B1

PROJECT NO. 7371A - HAYWARD

PAGE 2 OF 2

MONITORING WELL LOG FORM

B1

B2

MONITORING WELL LOG FORM

BORING LOCATION	FA
Project: ____ Project No: 7371A	Boring ID: B2
Date Drilled: ____ Date Completed: 10/5	Northing: ____ Easting: ____
Logged By: RSI	Ground Surface Elevation (ft.): ____
Water Elevation (ft.): 21' DEEP	Measuring Point (MP) Elevation (ft.): ____
Date Measured: 10/5	MP is Top of PVC Casing Datum: NGVD (1929)
Total Depth (ft.): 22	Drilling Contractor: CASCADE
Diameter (in.): 2.5	Drilling Method: DIRECT PUSH

Screen: Diameter ____ Depth ____ Slot Size ____
Casing: Diameter ____ Length ____ Type ____
Sand ____ Bentonite Seal ____ Cement Grout Seal ____

DEPTH (FEET)	% GRAVEL	% SAND	% FINES	MAX. PID READING (ppm)	BLOWS/FT (PID)	SAMPLE TYPE*	SAMPLE RECOVERY	USCS/ASTM CLASSIFICATION	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (USCS name; color; size and angularity of each component or plasticity; density; moisture content; additional facts)	ELEVATION (FEET)
					0				GP	ASPHALT / GRAVEL	
2									ML	SANDY SILT, DRY DENSE NO ODOR, 5Y4	
4									SM	FINE SANDY / SILT	
					0				ML		
6										SILT W/ BROKEN PIECES OF SILT STONE DRY/DENSE, NO ODOR 5Y4 SOME CEMENTATION NOTED.	
8					0						
10										DIFFICULT PROBING. SILT STONE WEATHERED SILT STONE 5Y3	
12					0					MACRO-CORE USED, WEATHERED SILTSTONE MOIST IN SPOTS. DENSE, CRUMBLES NO ODOR, 10Y2	
14					0						
16									ML	CEMENTED SILT W/ BROKEN PIECES OF SILT STONE, SOME CALCIFICATION NOTED	
18											
20											

945

B2-12 0950

B2

PROJECT NO. 7173A - HAYWARD

*C California Split Spoon Sampler (2.5" I.D.)
S Standard penetration test sampler
c Cuttings
▼ Elevation of ground water

B2

PID

B2

Project: _____ Project No: 7371A

Boring ID.: B2

DEPTH (FEET)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX. PID READING (ppm)	BLOWS/6 IN.	SAMPLE TYPE	SAMPLE RECOVERY	USCS/ASTM CLASSIFICAT.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (USCS name; color; size and angularity of each component or plasticity; density; moisture content; additional facts)	ELEVATION (FEET)
20											
21									ML	WEATHERED/BROKEN SILTSTONE WET, HARD.	
					0				↓		
22										BOTTOM @ 22' - PROBE VERY DIFFICULT. SET SCREENS	
										COLLECT B2GW @ 21' PGS	

(B2-21 1000)

1010

1050

PROJECT NO. 7173A - HAYWARD B2

PAGE 2 OF 2

MONITORING WELL LOG FORM

B2

B3

MONITORING WELL LOG FORM

BORING LOCATION

Project: _____ Project No: 7371A
Date Drilled: _____ Date Completed: 10/5
Logged By: ZSF
Water Elevation (ft.): N/A
Date Measured: _____
Total Depth (ft.): 2
Diameter (in.): 3

Boring ID: B3
Northing: _____ Easting: _____
Ground Surface Elevation (ft.): _____
Measuring Point (MP) Elevation (ft.): _____
MP is Top of PVC Casing Datum: NGVD (1929)
Drilling Contractor: CASCADE
Drilling Method: HAND AUGER

Screen: Diameter _____ Depth _____ Slot Size _____
Casing: Diameter _____ Length _____ Type _____
Sand _____ Bentonite Seal _____ Cement Grout Seal _____

PID

DEPTH (FEET)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX. PID READING (ppm)	BLOWS (6 IN.)	SAMPLE TYPE*	SAMPLE RECOVERY	USCS/ASTM CLASSIFICATION	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (USCS name; color; size and angularity of each component or plasticity; density; moisture content; additional facts)	ELEVATION (FEET)
0									GM	CONCRETE / AB 3 4" SILTY GRAVEL	
1				45					ML	DENSE / BROKEN SILTSTONE	
2										HAND AUGER REFUSAL @ 2'	
3										NOTE: PID = 45 ppm IN THIS HOLE	
4											
5										NOTE: VERY DIFFICULT HAND AUGERING. SAMPLES COLLECTED. CONVERT HOLE TO SV COLLECTION	
6										B3-SV-2.0	

B3-1.5

PROJECT NO. 7173-A HAY WARD

*C California Split Spoon Sampler (2.5" I.D.)
S Standard penetration test sampler
c Cuttings
▼ Elevation of ground water

B3

MONITORING WELL LOG FORM

B4

BORING LOCATION

Project: _____ Project No: 7371A

Date Drilled: _____ Date Completed: 10/5

Logged By: RSE

Water Elevation (ft.): N/A

Date Measured: _____

Total Depth (ft.): 2.5

Diameter (in.): 3

Boring ID: B4

Northing: _____ Easting: _____

Ground Surface Elevation (ft.): _____

Measuring Point (MP) Elevation (ft.): _____

MP is Top of PVC Casing Datum: NGVD (1929)

Drilling Contractor: CASCADE

Drilling Method: HAND AUGER

PID

Screen: Diameter _____ Depth _____ Slot Size _____

Casing: Diameter _____ Length _____ Type _____

Sand _____ Bentonite Seal _____ Cement Grout Seal _____

DEPTH (FEET)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX. PID READING (ppm)	BLOWS (6 IN.)	SAMPLE TYPE*	SAMPLE RECOVERY	USCS/ASTM CLASSIFICATION	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (USCS name; color; size and angularity of each component or plasticity; density; moisture content; additional facts)	ELEVATION (FEET)
0				0					ML	CONCRETE/AB 6" SILT/GRAVEL	
1				0						WEATHERED SILTSTONE W/SILT, DOISE, MOIST, NO ODOR	
2				0						AUGER REFUSAL 2.5'	
										NOTE: VERY DIFFICULT HAND AUGERING. SOIL SAMPLES COLLECTED. CONVERT HOLE TO SV COLLECTION	
										B4-SV-1.5	

B4-1 1240

B4-2.5 1250

B4

PROJECT NO. 71734 Hayward

*C California Split Spoon Sampler (2.5" I.D.)
S Standard penetration test sampler
c Cuttings
▼ Elevation of ground water

PAGE 1 OF 1

B4

B5

MONITORING WELL LOG FORM

BORING LOCATION

Project: _____ Project No: 7371A
Date Drilled: _____ Date Completed: 10/5
Logged By: RSF
Water Elevation (ft.): NA
Date Measured: _____
Total Depth (ft.): 1.5
Diameter (in.): _____

Boring ID: B5
Northing: _____ Easting: _____
Ground Surface Elevation (ft): _____
Measuring Point (MP) Elevation (ft.): _____
MP is Top of PVC Casing Datum: NGVD (1929)
Drilling Contractor: CASCADE
Drilling Method: HAND AUGER

Screen: Diameter _____ Depth _____ Slot Size _____
Casing: Diameter _____ Length _____ Type _____
Sand _____ Bentonite Seal _____ Cement Grout Seal _____

PID

DEPTH (FEET)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX PID READING (ppm)	BLOWS (6 IN.)	SAMPLE TYPE*	SAMPLE RECOVERY	USCS/ASTM CLASSIFICATION	GRAPHIC LOG	LITHOLOGIC DESCRIPTION (USCS name: color; size and angularity of each component or plasticity; density; moisture content; additional facts)	ELEVATION (FEET)
0				0						CONCRETE/AB 6"	
										SLT	
1										GM - GRAVELLY SILT	
				0						WEATHERED SILTSTONE	
1.5										AUGER REFUSAL	

B5-1.5
1300

NOTE: HAND AUGERING VERY DIFFICULT. SAMPLE COLLECTED. CONVERT HOLE TO SV COLLECTION

B5-SV-1.5

PROJECT NO. 7371A

*C California Split Spoon Sampler (2.5" I.D.)
S Standard penetration test sampler
c Cuttings
▼ Elevation of ground water

PAGE 1 OF 1

B5

CASCADE
DRILLING | TECHNICAL SERVICES

CASCADE DAILY WORK REPORT

120 S 23RD ST RICHMOND, CA 94804
P. 510.748.0858 # CASCADL91508

CLIENT:	PROJECT #:	DAY:	DATE:
JOB LOCATION:	DIG ALERT #:		JOB #:

Well # / Bore #	Depth Drilled	DESCRIPTION OF WORK Please explain reasons for Down Time, Standby Time, and Shop Time	HOURS Start	HOURS Stop	Total Hrs	Charge Hours
		AM Shop Time				
		Travel to Site				
		Travel to Shop				
		PM Shop Time				
Total Ft.		TOTAL CHARGEABLE RIG HOURS				

RIG ENGINE HOURS: START _____ STOP _____ TOTAL _____

EQUIPMENT

DRILL RIG #		COMPRESSOR/JACKHAMMER	
SUPPORT TRUCK #		SNOW FENCE RENTAL	
SUPPORT TRUCK #		CONTINUOUS SAMPLER	
TRAILER #		CONTINUOUS SAMPLER FOOTAGE	
BOBCAT		# OF CORE CUTS	3
AUTO HAMMER		# OF BULLDOG CUTS	
GROUT MIXER		# OF SERVICE RUNS	
GROUT PUMP		# OF SAW CUTS	
PERISTALTIC PUMP		PORTABLE RESTROOM	
FORKLIFT/HOPPER		EXHAUST DUCTING	

LABOR

NAME	SIGNATURE	SHOP		TOTAL HRS

CREW WITH PER DIEM _____ CHARGEABLE EXTRA LABOR HRS _____

CASING

TYPE ___ SLOT ___	2	4		
20' SCREEN				
10' SCREEN				
5' SCREEN			4	
20' BLANK				
10' BLANK				
5' BLANK			6	
5' PP SCREEN				
10' PP SCREEN				
SLIP CAP				
THREADED CAPS				
LOCKING CAPS				
DRIVE SHOE				
CENTRALIZERS				
LOCKS				

UTILITIES FOUND OR HIT

MATERIALS

ITEM	QTY	ITEM	QTY
SAND		WELL COVER 8"	
READYMIX		WELL COVER 12"	
QUICKSET		MONUMENT CASING	
PORTLAND	4	BOLLARDS	
ASPHALT		SOIL DRUMS	1
BENTONITE GROUT		DEVELOPMENT DRUMS	
BENTONITE CHIPS		DECON DRUMS	
BENTONITE POWDER		HOLE COVER PLATES	
BENTONITE PELLETS		PLASTIC SHEETING	
BENTONITE GRANULAR		TRAFFIC CONTROL	
SAMPLER TUBES		CORE BOXES	
SHELBY TUBES		PLYWOOD	
PROBE POINTS "		SOIL SAMPLES	
GW PROBE POINTS		WATER SAMPLES	2
EXP POINTS		MACRO LINERS	72'
SAMPLER SHOE		AUGER PLUGS	
		DRILL OUT BITS	

REMARKS

Client Signature _____ Operator Signature _____

eurofins | Air Toxics

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager ROBERT FAGERNESS
Collected by: (Print and Sign) R. FAGERNESS
Company ESCREENLOGIC Email r.fagerness@.....
Address 11249 GoldCo.Dr. City Gold River State CA Zip 95670
Phone 916-288-3176 Fax

Project Info:
P.O. #
Project # 7173A
Project Name HAYWARD

Turn Around Time:
☐ Normal
☒ Rush 5-DAY
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
✓	B3-SV-2.0	1L1809	10/6/17	1017	TO-15	-28	-5.5		
✓	B4-SV-1.5	1L1928	10/6/17	1026	TO-15	-30	-5		
✓	B5-SV-1.5	1360	10/6/17	1034	TO-15	-30	-6		
✓	SSV5	01056	10/6/17	1044	TO-15	-28.5	-5		
✓	SSV6	8038	10/6/17	1051	TO-15	-29	-4.5		
✓	SSV7	N2003	10/6/17	1107	TO-15	-30	-6		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
10/6/17 1513	10/6/17 1513
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	HD		NA	Good	Yes No (None)	

Form 1293 rev 11

eurofins | Air Toxics

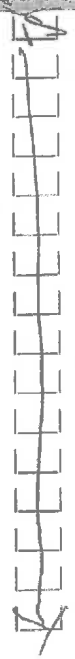
PACKING SLIP

Prepared For: eScreenLogic. Inc.

Ship Date: 10/03/17

Ship ID: KCB115336

Item ID Code	Quantity	Description	QC Control
1L1809	1	1 Liter Summa Canister B3-SV-20	
1L1928	1	1 Liter Summa Canister B4-SV-1.5	
1360	1	1 Liter Summa Canister B5-SV-1.5	
O1056	1	1 Liter Summa Canister SSV5	
8038	1	1 Liter Summa Canister SSV6	
N2003	1	1 Liter Summa Canister SSV7	
	1	Candy Bar	
	1	Gauge-Vacuum	
	6	Fitting w/ Pink Ferrule	
	1	Chain of Custody	
FC00647	1	Blue Body Flow Controller	
FC00358	1	Blue Body Flow Controller	
FC00266	1	Blue Body Flow Controller	
0000006668	1	Blue Body Flow Controller	
FC00852	1	Blue Body Flow Controller	
FC00708	1	Blue Body Flow Controller	



IMPORTANT! The preparation and certification charges for the above equipment will be billed upon return to the laboratory for analysis. This equipment is part of an analytical service and must not be transferred to any other party unless approved by Air Toxics Ltd. Any equipment not returned within 30 days will be billed as indicated above. We appreciate your doing business with Air Toxics Ltd.

Air Toxics Limited will ensure that any substances and/or containers shipped to Client for purposes of sampling, are shipped in compliance with all applicable local, State and Federal regulations. Client bears sole responsibility for determining the applicability of and compliance with all regulations applicable to the shipment of samples back to the laboratory. Air Toxics Limited assumes no liability with respect to the collection, handling, or shipping of samples. Client agrees to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind related to the collection, handling, or shipping of samples. D.O.T. HAZMAT Hotline (800) 467-4922

180-B Blue Ravine Road, Folsom, CA 95630

(916) 985-1000 - (800)985-5955 - FAX (916)985-1020

CLS - Labs

CHAIN OF CUSTODY

CLS ID No.: ____ LOG No. 181979

REPORT TO:

NAME AND ADDRESS: EScience Logic : Rob Fagerness
11299 Gold Ca Blvd #165
Gold River, CA 95670

PROJECT MANAGER: Robert Fagerness PHONE #: 916.772-8176

PROJECT NAME: Hayward #7371A

SAMPLED BY: R. Fagerness

JOB DESCRIPTION: Phase II - Commercial Bldg

SITE LOCATION: 969 A St. Hayward

CLIENT JOB NUMBER:

DESTINATION LABORATORY:
☒ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA 95742
☐ OTHER

GEOTRACKER: EDF REPORT ☐ YES ☒ NO
GLOBAL ID:

COMPOSITE:

FIELD CONDITIONS: Clear / Warm 75-80°F

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	8260B-VOC	% Moisture
10/5/17	0825	D1-12	Soil	1	Acetate	3	X	X
10/5/17	0900	B1-21	Soil	1	"	3	X	X
10/5/17	0950	B2-12	Soil	1	"	3	X	X
10/5/17	1000	B2-21	Soil	1	"	B	X	X
10/5/17	1035	B1 GW	H_2O	3	VOA	1/3	X	
10/5/17	1050	B2 GW	H_2O	3	VOA	1/3	X	
10/5/17	1100	Trip Blank	H_2O	3	VOA	1/3	X	
10/5/17	1235	B3-1.5	S	1	G	3	X	X
10/5/17	1250	B4-1	S	1	G	3	X	X
10/5/17	1255	B4-2.5	S	1	G	3	X	X
10/5/17	1300	B5-1.5	S	1	G	3	X	X

TURN AROUND TIME: 1 DAY / 2 DAY / 3 DAY / 5 DAY

SPECIAL INSTRUCTIONS OR ALT. ID: STD-TAT

INVOICE TO: Rob

P.O. #

QUOTE #

SUSPECTED CONSTITUENTS

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
[signature]	Robert Fagerness/ESL	10/5/17 1652		

REC'D AT LAB BY: [signature] DATE / TIME: 10/5/17 1652

CONDITIONS / COMMENTS: 2

SHIPPED BY: ☐ FED X ☐ UPS ☒ OTHER Drop off AIR BILL #

Certificate of Calibration

EnviroTech
▲ Environmental Products for Purchase & Rental ▲
1-916-852-8856
www.envirotechonline.com

Instrument: MiniRAE 3000 **s/n:** # 3827

Span Value / Reading

- H2S.....: — / —
- CO.....: — / —
- LEL.....: — / —
- Isobutylene.....: 100 ppm / 99.9 ppm
- Other: _____

Notes: _____

Calibrated by: Patrick Nagel (Print Name) _____ (Signature)

Date: 10-4-17

APPENDIX B

ACCREDITED LABORATORY RESULTS

Additional appendices vary by scope and purpose- but include and are not limited to: accredited laboratory certifications, full analytical details, supporting documentation and evidence of insurance.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 16, 2017

CLS Work Order #: 17J0311
COC #: 181979

Robert F.
eScreen Logic
11249 Gold Country Blvd Ste 165
Gold River, CA 95670

Project Name: Hayward #7371A

Enclosed are the results of analyses for samples received by the laboratory on 10/05/17 16:52. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

CLS - Labs

CHAIN OF CUSTODY — CLS ID No.: 17J0311 — LOG № 181979

REPORT TO:

NAME AND ADDRESS: Eckerman Logic ... Rob Fagerness
11249 Gold Co Blvd #165
Gold River, CA 95670
PROJECT MANAGER: Robert Fagerness — PHONE: 916.[illegible]
PROJECT NAME: Hayward #7371A
SAMPLED BY: R. Fagerness
JOB DESCRIPTION: Phase II - Commercial Bldg
SITE LOCATION: 967 A St. Hayward

CLIENT JOB NUMBER:

DESTINATION LABORATORY: [X] CLS (916) 638-7301, 3249 Fitzgerald Rd, Rancho Cordova, CA 95742 — [ ] OTHER

ANALYSIS REQUESTED: 8260B - VOC; % Moisture

GEOTRACKER: EDF REPORT [ ] YES [X] NO
GLOBAL ID:
COMPOSITE:
FIELD CONDITIONS: Clear / Warm 75-80°F

TURN AROUND TIME: DAY / DAY / DAY / DAY
SPECIAL INSTRUCTIONS OR ALT. TO: STD TAT

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	8260B - VOC	% Moisture
10/5/17	0825	B1 - 12	Soil	1	Acetate	3	X	X
10/5/17	0900	B1 - 21	Soil	1	"	3	X	X
10/5/17	0950	B2 - 12	Soil	1	"	3	X	X
10/5/17	1000	B2 - 21	Soil	1	"	3	X	X
10/5/17	1035	B1 GW	H_2O	3	VOA	1/3	X	
10/5/17	1050	B2 GW	H_2O	3	VOA	1/3	X	
10/5/17	1100	TRIPBLANK	H_2O	3	VOA	1/3	X	
10/5/17	1235	B3 - 1.5	S	1	G	3	X	X
10/5/17	1250	B4 - 1	S	1	G	3	X	X
10/5/17	1255	B4 - 2.5	S	1	G	3	X	X
10/5/17	1300	B5 - 1.5	S	1	G	3	X	X

INVOICE TO: ROB
PO #
QUOTE #

SUSPECTED CONSTITUENTS

PRESERVATIVES: (1) HCl (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
[signature]	Robert Fagerness/ESL	10/5/17 1652		

REC'D AT LAB BY: [signature] — DATE / TIME: 10-5-17 1652 — CONDITIONS / COMMENTS: 3.2

SHIPPED BY: [ ] FED X [ ] UPS [X] OTHER Drop off — AIR BILL #

eScreen Logic
11249 Gold Country Blvd Ste 165
Gold River, CA 95670

Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-12 (17J0311-01) Soil Sampled: 10/05/17 08:25 Received: 10/05/17 16:52									
% Moisture	**12**	1.0	%	1	1707597	10/06/17	10/06/17	SM 2540G	
Solids, %	**88.0**	1.00	"	"	"	"	"	"	
B1-21 (17J0311-02) Soil Sampled: 10/05/17 09:00 Received: 10/05/17 16:52									
% Moisture	**9.2**	1.0	%	1	1707597	10/06/17	10/06/17	SM 2540G	
Solids, %	**90.8**	1.00	"	"	"	"	"	"	
B2-12 (17J0311-03) Soil Sampled: 10/05/17 09:50 Received: 10/05/17 16:52									
% Moisture	**10**	1.0	%	1	1707597	10/06/17	10/06/17	SM 2540G	
Solids, %	**90.0**	1.00	"	"	"	"	"	"	
B2-21 (17J0311-04) Soil Sampled: 10/05/17 10:00 Received: 10/05/17 16:52									
% Moisture	**11**	1.0	%	1	1707597	10/06/17	10/06/17	SM 2540G	
Solids, %	**89.4**	1.00	"	"	"	"	"	"	
B3-1.5 (17J0311-08) Soil Sampled: 10/05/17 12:35 Received: 10/05/17 16:52									
% Moisture	**7.9**	1.0	%	1	1707597	10/06/17	10/06/17	SM 2540G	
Solids, %	**92.1**	1.00	"	"	"	"	"	"	
B4-1 (17J0311-09) Soil Sampled: 10/05/17 12:50 Received: 10/05/17 16:52									
% Moisture	**11**	1.0	%	1	1707597	10/06/17	10/06/17	SM 2540G	
Solids, %	**89.4**	1.00	"	"	"	"	"	"	
B4-2.5 (17J0311-10) Soil Sampled: 10/05/17 12:55 Received: 10/05/17 16:52									
% Moisture	**12**	1.0	%	1	1707597	10/06/17	10/06/17	SM 2540G	
Solids, %	**87.7**	1.00	"	"	"	"	"	"	

eScreen Logic
11249 Gold Country Blvd Ste 165
Gold River, CA 95670

Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-1.5 (17J0311-11) Soil Sampled: 10/05/17 13:00 Received: 10/05/17 16:52									
% Moisture	**13**	1.0	%	1	1707597	10/06/17	10/06/17	SM 2540G	
Solids, %	**86.6**	1.00	"	"	"	"	"	"	

eScreen Logic
11249 Gold Country Blvd Ste 165
Gold River, CA 95670

Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-12 (17J0311-01) Soil Sampled: 10/05/17 08:25 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1707631	10/06/17	10/06/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1-Dichloropropene	ND	5.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	µg/kg dry	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	

eScreen Logic
11249 Gold Country Blvd Ste 165
Gold River, CA 95670

Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-12 (17J0311-01) Soil Sampled: 10/05/17 08:25 Received: 10/05/17 16:52									
1,2-Dichloroethane	ND	5.7	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
1,2-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloropropane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichloropropane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
2,2-Dichloropropane	ND	5.7	µg/kg dry	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
2-Butanone	ND	110	µg/kg dry	"	"	"	"	"	
2-Butanone	ND	100	µg/kg	"	"	"	"	"	
2-Hexanone	ND	57	µg/kg dry	"	"	"	"	"	
2-Hexanone	ND	50	µg/kg	"	"	"	"	"	
4-Methyl-2-pentanone	ND	57	µg/kg dry	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	µg/kg	"	"	"	"	"	
Acetone	ND	110	µg/kg dry	"	"	"	"	"	
Acetone	ND	100	µg/kg	"	"	"	"	"	
Benzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Benzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Bromobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromochloromethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Bromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromodichloromethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Bromodichloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromoform	ND	5.7	µg/kg dry	"	"	"	"	"	

eScreen Logic
11249 Gold Country Blvd Ste 165
Gold River, CA 95670

Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-12 (17J0311-01) Soil Sampled: 10/05/17 08:25 Received: 10/05/17 16:52									
Bromoform	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
Bromomethane	ND	11	µg/kg dry	"	"	"	"	"	
Bromomethane	ND	10	µg/kg	"	"	"	"	"	
Carbon tetrachloride	ND	5.7	µg/kg dry	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	µg/kg	"	"	"	"	"	
Chlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Chlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Chloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Chloroethane	ND	5.0	µg/kg	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.7	µg/kg dry	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Chloromethane	ND	10	µg/kg	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.7	µg/kg dry	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Dibromochloromethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Dibromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromomethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Dibromomethane	ND	5.0	µg/kg	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	11	µg/kg dry	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Ethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Hexachlorobutadiene	ND	5.7	µg/kg dry	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	µg/kg	"	"	"	"	"	
Isopropylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Isopropylbenzene	ND	5.0	µg/kg	"	"	"	"	"	

eScreen Logic
11249 Gold Country Blvd Ste 165
Gold River, CA 95670

Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-12 (17J0311-01) Soil Sampled: 10/05/17 08:25 Received: 10/05/17 16:52									
Methyl tert-butyl ether	ND	5.7	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Methyl tert-butyl ether	ND	5.0	µg/kg	"	"	"	"	"	
Methylene chloride	ND	23	µg/kg dry	"	"	"	"	"	
Methylene chloride	ND	20	µg/kg	"	"	"	"	"	
Naphthalene	ND	5.7	µg/kg dry	"	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	"	
n-Butylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
n-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Propylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
n-Propylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
o-Chlorotoluene	ND	5.7	µg/kg dry	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Chlorotoluene	ND	5.7	µg/kg dry	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Isopropyltoluene	ND	5.7	µg/kg dry	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	µg/kg	"	"	"	"	"	
sec-Butylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Styrene	ND	5.7	µg/kg dry	"	"	"	"	"	
Styrene	ND	5.0	µg/kg	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Tetrachloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
Tetrachloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Toluene	ND	5.7	µg/kg dry	"	"	"	"	"	
Toluene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.7	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-12 (17J0311-01) Soil Sampled: 10/05/17 08:25 Received: 10/05/17 16:52									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
Trichloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
Trichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	µg/kg	"	"	"	"	"	
Vinyl chloride	ND	11	µg/kg dry	"	"	"	"	"	
Vinyl chloride	ND	10	µg/kg	"	"	"	"	"	
Xylenes (total)	ND	11	µg/kg dry	"	"	"	"	"	
Xylenes (total)	ND	10	µg/kg	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*162 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 1,2-Dichloroethane-d4		*162 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*111 %*	*50-128*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*50-128*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*62-125*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*62-125*		"	"	"	"	
B1-21 (17J0311-02) Soil Sampled: 10/05/17 09:00 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1707631	10/06/17	10/06/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	5.5	µg/kg dry	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	µg/kg dry	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.5	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethane	ND	5.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-21 (17J0311-02) Soil Sampled: 10/05/17 09:00 Received: 10/05/17 16:52									
1,1-Dichlorocthene	ND	5.5	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
1,1-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloropropene	ND	5.5	µg/kg dry	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.5	µg/kg dry	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	µg/kg dry	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.5	µg/kg dry	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloroethane	ND	5.5	µg/kg dry	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloropropane	ND	5.5	µg/kg dry	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichloropropane	ND	5.5	µg/kg dry	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
2,2-Dichloropropane	ND	5.5	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-21 (17J0311-02) Soil Sampled: 10/05/17 09:00 Received: 10/05/17 16:52									
2,2-Dichloropropane	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
2-Butanone	ND	110	µg/kg dry	"	"	"	"	"	
2-Butanone	ND	100	µg/kg	"	"	"	"	"	
2-Hexanone	ND	55	µg/kg dry	"	"	"	"	"	
2-Hexanone	ND	50	µg/kg	"	"	"	"	"	
4-Methyl-2-pentanone	ND	55	µg/kg dry	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	µg/kg	"	"	"	"	"	
Acetone	ND	110	µg/kg dry	"	"	"	"	"	
Acetone	ND	100	µg/kg	"	"	"	"	"	
Benzene	ND	5.5	µg/kg dry	"	"	"	"	"	
Benzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromobenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
Bromobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromochloromethane	ND	5.5	µg/kg dry	"	"	"	"	"	
Bromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromodichloromethane	ND	5.5	µg/kg dry	"	"	"	"	"	
Bromodichloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromoform	ND	5.5	µg/kg dry	"	"	"	"	"	
Bromoform	ND	5.0	µg/kg	"	"	"	"	"	
Bromomethane	ND	11	µg/kg dry	"	"	"	"	"	
Bromomethane	ND	10	µg/kg	"	"	"	"	"	
Carbon tetrachloride	ND	5.5	µg/kg dry	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	µg/kg	"	"	"	"	"	
Chlorobenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
Chlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.5	µg/kg dry	"	"	"	"	"	
Chloroform	ND	5.5	"	"	"	"	"	"	
Chloroform	ND	5.0	µg/kg	"	"	"	"	"	
Chloromethane	ND	11	µg/kg dry	"	"	"	"	"	
Chloromethane	ND	10	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-21 (17J0311-02) Soil Sampled: 10/05/17 09:00 Received: 10/05/17 16:52									
cis-1,2-Dichloroethene	ND	5.5	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
cis-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.5	µg/kg dry	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Dibromochloromethane	ND	5.5	µg/kg dry	"	"	"	"	"	
Dibromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromomethane	ND	5.5	µg/kg dry	"	"	"	"	"	
Dibromomethane	ND	5.0	µg/kg	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	11	µg/kg dry	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
Ethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Hexachlorobutadiene	ND	5.5	µg/kg dry	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	µg/kg	"	"	"	"	"	
Isopropylbenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
Isopropylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.5	µg/kg dry	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	µg/kg	"	"	"	"	"	
Methylene chloride	ND	22	µg/kg dry	"	"	"	"	"	
Methylene chloride	ND	20	µg/kg	"	"	"	"	"	
Naphthalene	ND	5.5	µg/kg dry	"	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	"	
n-Butylbenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
n-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Propylbenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
n-Propylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
o-Chlorotoluene	ND	5.5	µg/kg dry	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Chlorotoluene	ND	5.5	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-21 (17J0311-02) Soil Sampled: 10/05/17 09:00 Received: 10/05/17 16:52									
p-Chlorotoluene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
p-Isopropyltoluene	ND	5.5	µg/kg dry	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	µg/kg	"	"	"	"	"	
sec-Butylbenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Styrene	ND	5.5	µg/kg dry	"	"	"	"	"	
Styrene	ND	5.0	µg/kg	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.5	µg/kg dry	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Tetrachloroethene	ND	5.5	µg/kg dry	"	"	"	"	"	
Tetrachloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Toluene	ND	5.5	µg/kg dry	"	"	"	"	"	
Toluene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.5	µg/kg dry	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.5	µg/kg dry	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Trichloroethene	ND	5.5	µg/kg dry	"	"	"	"	"	
Trichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Trichlorofluoromethane	ND	5.5	µg/kg dry	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	µg/kg	"	"	"	"	"	
Vinyl chloride	ND	11	µg/kg dry	"	"	"	"	"	
Vinyl chloride	ND	10	µg/kg	"	"	"	"	"	
Xylenes (total)	ND	11	µg/kg dry	"	"	"	"	"	
Xylenes (total)	ND	10	µg/kg	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*160 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 1,2-Dichloroethane-d4		*160 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*116 %*	*50-128*		"	"	"	"	

eScreen Logic	Project: Hayward #7371A	
11249 Gold Country Blvd Ste 165	Project Number: [none]	**CLS Work Order #: 17J0311**
Gold River, CA 95670	Project Manager: Robert F.	COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1-21 (17J0311-02) Soil Sampled: 10/05/17 09:00 Received: 10/05/17 16:52									
Surrogate: 4-Bromofluorobenzene		*116 %*		*50-128*	*1707631*	"	*10/06/17*	*EPA 8260B*	
Surrogate: Toluene-d8		*91 %*		*62-125*	"	"	"	"	
Surrogate: Toluene-d8		*91 %*		*62-125*	"	"	"	"	
B2-12 (17J0311-03) Soil Sampled: 10/05/17 09:50 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	5.6	µg/kg dry	1	1707631	10/06/17	10/06/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.6	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-12 (17J0311-03) Soil Sampled: 10/05/17 09:50 Received: 10/05/17 16:52									
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
2,2-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
2-Butanone	ND	110	µg/kg dry	"	"	"	"	"	
2-Butanone	ND	100	µg/kg	"	"	"	"	"	
2-Hexanone	ND	56	µg/kg dry	"	"	"	"	"	
2-Hexanone	ND	50	µg/kg	"	"	"	"	"	
4-Methyl-2-pentanone	ND	56	µg/kg dry	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	µg/kg	"	"	"	"	"	
Acetone	ND	110	µg/kg dry	"	"	"	"	"	
Acetone	ND	100	µg/kg	"	"	"	"	"	
Benzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Benzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromobenzene	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-12 (17J0311-03) Soil Sampled: 10/05/17 09:50 Received: 10/05/17 16:52									
Bromochloromethane	ND	5.6	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Bromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromodichloromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromodichloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromoform	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromoform	ND	5.0	µg/kg	"	"	"	"	"	
Bromomethane	ND	11	µg/kg dry	"	"	"	"	"	
Bromomethane	ND	10	µg/kg	"	"	"	"	"	
Carbon tetrachloride	ND	5.6	µg/kg dry	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	µg/kg	"	"	"	"	"	
Chlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Chlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Chloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Chloroethane	ND	5.0	µg/kg	"	"	"	"	"	
Chloroform	ND	5.6	µg/kg dry	"	"	"	"	"	
Chloroform	ND	5.0	µg/kg	"	"	"	"	"	
Chloromethane	ND	11	µg/kg dry	"	"	"	"	"	
Chloromethane	ND	10	µg/kg	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Dibromochloromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Dibromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromomethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Dibromomethane	ND	5.0	µg/kg	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	11	µg/kg dry	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-12 (17J0311-03) Soil Sampled: 10/05/17 09:50 Received: 10/05/17 16:52									
Ethylbenzene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
Hexachlorobutadiene	ND	5.6	µg/kg dry	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	µg/kg	"	"	"	"	"	
Isopropylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Isopropylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.6	µg/kg dry	"	"	"	"	"	
Methylene chloride	ND	22	"	"	"	"	"	"	
Methylene chloride	ND	20	µg/kg	"	"	"	"	"	
Naphthalene	ND	5.6	µg/kg dry	"	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	"	
n-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
n-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Propylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
n-Propylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
o-Chlorotoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Chlorotoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Isopropyltoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	µg/kg	"	"	"	"	"	
sec-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Styrene	ND	5.6	µg/kg dry	"	"	"	"	"	
Styrene	ND	5.0	µg/kg	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Tetrachloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
Tetrachloroethene	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-12 (17J0311-03) Soil Sampled: 10/05/17 09:50 Received: 10/05/17 16:52									
Toluene	ND	5.6	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Toluene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Trichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
Trichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Trichlorofluoromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	µg/kg	"	"	"	"	"	
Vinyl chloride	ND	11	µg/kg dry	"	"	"	"	"	
Vinyl chloride	ND	10	µg/kg	"	"	"	"	"	
Xylenes (total)	ND	11	µg/kg dry	"	"	"	"	"	
Xylenes (total)	ND	10	µg/kg	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*160 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 1,2-Dichloroethane-d4		*160 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*102 %*	*50-128*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*50-128*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*62-125*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*62-125*		"	"	"	"	
B2-21 (17J0311-04) Soil Sampled: 10/05/17 10:00 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	5.6	µg/kg dry	1	1707631	10/06/17	10/06/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.6	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-21 (17J0311-04) Soil Sampled: 10/05/17 10:00 Received: 10/05/17 16:52									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
1,1,2-Trichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	µg/kg dry	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	

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Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-21 (17J0311-04) Soil Sampled: 10/05/17 10:00 Received: 10/05/17 16:52									
1,3-Dichlorobenzene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
1,3-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
2,2-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
2-Butanone	ND	110	µg/kg dry	"	"	"	"	"	
2-Butanone	ND	100	µg/kg	"	"	"	"	"	
2-Hexanone	ND	56	µg/kg dry	"	"	"	"	"	
2-Hexanone	ND	50	µg/kg	"	"	"	"	"	
4-Methyl-2-pentanone	ND	56	µg/kg dry	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	µg/kg	"	"	"	"	"	
Acetone	ND	110	µg/kg dry	"	"	"	"	"	
Acetone	ND	100	µg/kg	"	"	"	"	"	
Benzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Benzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromochloromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromodichloromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromodichloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromoform	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromoform	ND	5.0	µg/kg	"	"	"	"	"	
Bromomethane	ND	11	µg/kg dry	"	"	"	"	"	
Bromomethane	ND	10	µg/kg	"	"	"	"	"	
Carbon tetrachloride	ND	5.6	µg/kg dry	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	µg/kg	"	"	"	"	"	
Chlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Chlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-21 (17J0311-04) Soil Sampled: 10/05/17 10:00 Received: 10/05/17 16:52									
Chloroethane	ND	5.6	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Chloroethane	ND	5.0	µg/kg	"	"	"	"	"	
Chloroform	ND	5.6	µg/kg dry	"	"	"	"	"	
Chloroform	ND	5.0	µg/kg	"	"	"	"	"	
Chloromethane	ND	11	µg/kg dry	"	"	"	"	"	
Chloromethane	ND	10	µg/kg	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Dibromochloromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Dibromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromomethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Dibromomethane	ND	5.0	µg/kg	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	11	µg/kg dry	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Ethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Hexachlorobutadiene	ND	5.6	µg/kg dry	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	µg/kg	"	"	"	"	"	
Isopropylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Isopropylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.6	µg/kg dry	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	µg/kg	"	"	"	"	"	
Methylene chloride	ND	22	µg/kg dry	"	"	"	"	"	
Methylene chloride	ND	20	µg/kg	"	"	"	"	"	
Naphthalene	ND	5.6	µg/kg dry	"	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	"	
n-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-21 (17J0311-04) Soil Sampled: 10/05/17 10:00 Received: 10/05/17 16:52									
n-Butylbenzene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
n-Propylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
n-Propylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
o-Chlorotoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Chlorotoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Isopropyltoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	µg/kg	"	"	"	"	"	
sec-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Styrene	ND	5.6	µg/kg dry	"	"	"	"	"	
Styrene	ND	5.0	µg/kg	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Tetrachloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
Tetrachloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Toluene	ND	5.6	µg/kg dry	"	"	"	"	"	
Toluene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Trichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
Trichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Trichlorofluoromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	µg/kg	"	"	"	"	"	
Vinyl chloride	ND	11	µg/kg dry	"	"	"	"	"	
Vinyl chloride	ND	10	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2-21 (17J0311-04) Soil Sampled: 10/05/17 10:00 Received: 10/05/17 16:52									
Xylenes (total)	ND	11	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Xylenes (total)	ND	10	µg/kg	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*161 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 1,2-Dichloroethane-d4		*161 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*124 %*	*50-128*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*125 %*	*50-128*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*62-125*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*62-125*		"	"	"	"	
B1 GW (17J0311-05) Water Sampled: 10/05/17 10:35 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	1707627	10/06/17	10/06/17	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	

eScreen Logic	Project: Hayward #7371A	
11249 Gold Country Blvd Ste 165	Project Number: [none]	**CLS Work Order #: 17J0311**
Gold River, CA 95670	Project Manager: Robert F.	COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1 GW (17J0311-05) Water Sampled: 10/05/17 10:35 Received: 10/05/17 16:52									
1,4-Dichlorobenzene	ND	0.50	µg/L	1	1707627	"	10/06/17	EPA 8260B	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Acetone	ND	10	"	"	"	"	"	"	
Benzene	**0.59**	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	

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Project: Hayward #7371A
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1 GW (17J0311-05) Water Sampled: 10/05/17 10:35 Received: 10/05/17 16:52									
n-Propylbenzene	ND	0.50	µg/L	1	1707627	"	10/06/17	EPA 8260B	
o-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	2.3	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*123 %*		*66-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*73-125*	"	"	"	"	
Surrogate: Toluene-d8		*96 %*		*72-125*	"	"	"	"	
B2 GW (17J0311-06) Water Sampled: 10/05/17 10:50 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	1707627	10/06/17	10/06/17	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2 GW (17J0311-06) Water Sampled: 10/05/17 10:50 Received: 10/05/17 16:52									
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1	1707627	"	10/06/17	EPA 8260B	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Acetone	ND	10	"	"	"	"	"	"	
Benzene	**1.1**	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2 GW (17J0311-06) Water Sampled: 10/05/17 10:50 Received: 10/05/17 16:52									
Dibromochloromethane	ND	0.50	µg/L	1	1707627	"	10/06/17	EPA 8260B	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	**2.0**	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
o-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	**3.5**	0.50	"	"	"	"	"	"	
Toluene	**0.61**	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	**1.7**	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*123 %*		*66-135*	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2 GW (17J0311-06) Water Sampled: 10/05/17 10:50 Received: 10/05/17 16:52									
Surrogate: 4-Bromofluorobenzene		*101 %*		*73-125*	*1707627*	"	*10/06/17*	*EPA 8260B*	
Surrogate: Toluene-d8		*95 %*		*72-125*	"	"	"	"	
Trip Blank (17J0311-07) Water Sampled: 10/05/17 11:00 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	1707627	10/06/17	10/06/17	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Acetone	ND	10	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	

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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (17J0311-07) Water Sampled: 10/05/17 11:00 Received: 10/05/17 16:52									
Bromobenzene	ND	0.50	µg/L	1	1707627	"	10/06/17	EPA 8260B	
Bromochloromethane	ND	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	"	"	"	"	"	"	
Bromoform	ND	0.50	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.50	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	"	"	"	"	"	"	
Dibromomethane	ND	0.50	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Naphthalene	ND	0.50	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	"	"	"	"	"	"	
o-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Chlorotoluene	ND	0.50	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (17J0311-07) Water Sampled: 10/05/17 11:00 Received: 10/05/17 16:52									
tert-Butyl alcohol	ND	5.0	µg/L	1	1707627	"	10/06/17	EPA 8260B	
tert-Butylbenzene	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*124 %*	*66-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*73-125*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*72-125*		"	"	"	"	
B3-1.5 (17J0311-08) Soil Sampled: 10/05/17 12:35 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1707631	10/06/17	10/06/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	5.4	µg/kg dry	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.4	µg/kg dry	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.4	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.4	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethane	ND	5.4	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethene	ND	5.4	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B3-1.5 (17J0311-08) Soil Sampled: 10/05/17 12:35 Received: 10/05/17 16:52									
1,1-Dichloropropene	ND	5.4	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
1,1-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.4	µg/kg dry	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	µg/kg dry	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.4	µg/kg dry	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloroethane	ND	5.4	µg/kg dry	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloropropane	ND	5.4	µg/kg dry	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichloropropane	ND	5.4	µg/kg dry	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
2,2-Dichloropropane	ND	5.4	µg/kg dry	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
2-Butanone	ND	110	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B3-1.5 (17J0311-08) Soil Sampled: 10/05/17 12:35 Received: 10/05/17 16:52									
2-Butanone	ND	100	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
2-Hexanone	ND	54	µg/kg dry	"	"	"	"	"	
2-Hexanone	ND	50	µg/kg	"	"	"	"	"	
4-Methyl-2-pentanone	ND	54	µg/kg dry	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	µg/kg	"	"	"	"	"	
Acetone	ND	110	µg/kg dry	"	"	"	"	"	
Acetone	ND	100	µg/kg	"	"	"	"	"	
Benzene	ND	5.4	µg/kg dry	"	"	"	"	"	
Benzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromobenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
Bromobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromochloromethane	ND	5.4	µg/kg dry	"	"	"	"	"	
Bromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromodichloromethane	ND	5.4	µg/kg dry	"	"	"	"	"	
Bromodichloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromoform	ND	5.4	µg/kg dry	"	"	"	"	"	
Bromoform	ND	5.0	µg/kg	"	"	"	"	"	
Bromomethane	ND	11	µg/kg dry	"	"	"	"	"	
Bromomethane	ND	10	µg/kg	"	"	"	"	"	
Carbon tetrachloride	ND	5.4	µg/kg dry	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	µg/kg	"	"	"	"	"	
Chlorobenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
Chlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Chloroethane	ND	5.4	µg/kg dry	"	"	"	"	"	
Chloroethane	ND	5.0	µg/kg	"	"	"	"	"	
Chloroform	ND	5.4	µg/kg dry	"	"	"	"	"	
Chloroform	ND	5.0	µg/kg	"	"	"	"	"	
Chloromethane	ND	11	µg/kg dry	"	"	"	"	"	
Chloromethane	ND	10	µg/kg	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.4	µg/kg dry	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B3-1.5 (17J0311-08) Soil Sampled: 10/05/17 12:35 Received: 10/05/17 16:52									
cis-1,3-Dichloropropene	ND	5.4	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
cis-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Dibromochloromethane	ND	5.4	µg/kg dry	"	"	"	"	"	
Dibromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromomethane	ND	5.4	µg/kg dry	"	"	"	"	"	
Dibromomethane	ND	5.0	µg/kg	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	11	µg/kg dry	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
Ethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Hexachlorobutadiene	ND	5.4	µg/kg dry	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	µg/kg	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.4	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	µg/kg	"	"	"	"	"	
Methylene chloride	ND	22	µg/kg dry	"	"	"	"	"	
Methylene chloride	ND	20	µg/kg	"	"	"	"	"	
Naphthalene	ND	5.4	µg/kg dry	"	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	"	
n-Butylbenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
n-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Propylbenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
n-Propylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
o-Chlorotoluene	ND	5.4	µg/kg dry	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Chlorotoluene	ND	5.4	µg/kg dry	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Isopropyltoluene	ND	5.4	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B3-1.5 (17J0311-08) Soil Sampled: 10/05/17 12:35 Received: 10/05/17 16:52									
p-Isopropyltoluene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
sec-Butylbenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Styrene	ND	5.4	µg/kg dry	"	"	"	"	"	
Styrene	ND	5.0	µg/kg	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.4	µg/kg dry	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Tetrachloroethene	ND	5.4	µg/kg dry	"	"	"	"	"	
Tetrachloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Toluene	ND	5.4	µg/kg dry	"	"	"	"	"	
Toluene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.4	µg/kg dry	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.4	µg/kg dry	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Trichloroethene	ND	5.4	µg/kg dry	"	"	"	"	"	
Trichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Trichlorofluoromethane	ND	5.4	µg/kg dry	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	µg/kg	"	"	"	"	"	
Vinyl chloride	ND	11	µg/kg dry	"	"	"	"	"	
Vinyl chloride	ND	10	µg/kg	"	"	"	"	"	
Xylenes (total)	ND	11	µg/kg dry	"	"	"	"	"	
Xylenes (total)	ND	10	µg/kg	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*162 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 1,2-Dichloroethane-d4		*162 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*95 %*	*50-128*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95 %*	*50-128*		"	"	"	"	
Surrogate: Toluene-d8		*92 %*	*62-125*		"	"	"	"	

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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B3-1.5 (17J0311-08) Soil Sampled: 10/05/17 12:35 Received: 10/05/17 16:52									
Surrogate: Toluene-d8		*92 %*		*62-125*	*1707631*	"	*10/06/17*	*EPA 8260B*	
B4-1 (17J0311-09) Soil Sampled: 10/05/17 12:50 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	5.6	µg/kg dry	1	1707631	10/06/17	10/06/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	µg/kg dry	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.6	µg/kg dry	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-1 (17J0311-09) Soil Sampled: 10/05/17 12:50 Received: 10/05/17 16:52									
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
1,2-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
2,2-Dichloropropane	ND	5.6	µg/kg dry	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
2-Butanone	ND	110	µg/kg dry	"	"	"	"	"	
2-Butanone	ND	100	µg/kg	"	"	"	"	"	
2-Hexanone	ND	56	µg/kg dry	"	"	"	"	"	
2-Hexanone	ND	50	µg/kg	"	"	"	"	"	
4-Methyl-2-pentanone	ND	56	µg/kg dry	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	µg/kg	"	"	"	"	"	
Acetone	ND	110	µg/kg dry	"	"	"	"	"	
Acetone	ND	100	µg/kg	"	"	"	"	"	
Benzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Benzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromochloromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	

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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-1 (17J0311-09) Soil Sampled: 10/05/17 12:50 Received: 10/05/17 16:52									
Bromodichloromethane	ND	5.6	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Bromodichloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromoform	ND	5.6	µg/kg dry	"	"	"	"	"	
Bromoform	ND	5.0	µg/kg	"	"	"	"	"	
Bromomethane	ND	11	µg/kg dry	"	"	"	"	"	
Bromomethane	ND	10	µg/kg	"	"	"	"	"	
Carbon tetrachloride	ND	5.6	µg/kg dry	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	µg/kg	"	"	"	"	"	
Chlorobenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Chlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Chloroethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Chloroethane	ND	5.0	µg/kg	"	"	"	"	"	
Chloroform	ND	5.6	µg/kg dry	"	"	"	"	"	
Chloroform	ND	5.0	µg/kg	"	"	"	"	"	
Chloromethane	ND	11	µg/kg dry	"	"	"	"	"	
Chloromethane	ND	10	µg/kg	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Dibromochloromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Dibromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromomethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Dibromomethane	ND	5.0	µg/kg	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	11	µg/kg dry	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Ethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Hexachlorobutadiene	ND	5.6	µg/kg dry	"	"	"	"	"	

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Project Manager: Robert F.

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COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-1 (17J0311-09) Soil Sampled: 10/05/17 12:50 Received: 10/05/17 16:52									
Hexachlorobutadiene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
Isopropylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
Isopropylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.6	µg/kg dry	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	µg/kg	"	"	"	"	"	
Methylene chloride	ND	22	µg/kg dry	"	"	"	"	"	
Methylene chloride	ND	20	µg/kg	"	"	"	"	"	
Naphthalene	ND	5.6	µg/kg dry	"	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	"	
n-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
n-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Propylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
n-Propylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
o-Chlorotoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Chlorotoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Isopropyltoluene	ND	5.6	µg/kg dry	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	µg/kg	"	"	"	"	"	
sec-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Styrene	ND	5.6	µg/kg dry	"	"	"	"	"	
Styrene	ND	5.0	µg/kg	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.6	µg/kg dry	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Tetrachloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
Tetrachloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Toluene	ND	5.6	µg/kg dry	"	"	"	"	"	
Toluene	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-1 (17J0311-09) Soil Sampled: 10/05/17 12:50 Received: 10/05/17 16:52									
trans-1,2-Dichloroethene	ND	5.6	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.6	µg/kg dry	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
Trichloroethene	ND	5.6	µg/kg dry	"	"	"	"	"	
Trichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Trichlorofluoromethane	ND	5.6	µg/kg dry	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	µg/kg	"	"	"	"	"	
Vinyl chloride	ND	11	µg/kg dry	"	"	"	"	"	
Vinyl chloride	ND	10	µg/kg	"	"	"	"	"	
Xylenes (total)	ND	11	µg/kg dry	"	"	"	"	"	
Xylenes (total)	ND	10	µg/kg	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*147 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 1,2-Dichloroethane-d4		*147 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*113 %*	*50-128*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*50-128*		"	"	"	"	
Surrogate: Toluene-d8		*93 %*	*62-125*		"	"	"	"	
Surrogate: Toluene-d8		*93 %*	*62-125*		"	"	"	"	
B4-2.5 (17J0311-10) Soil Sampled: 10/05/17 12:55 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1707631	10/06/17	10/06/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-2.5 (17J0311-10) Soil Sampled: 10/05/17 12:55 Received: 10/05/17 16:52									
1,1,2-Trichloroethane	ND	5.7	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
1,1-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,1-Dichloropropene	ND	5.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	µg/kg dry	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloropropane	ND	5.7	µg/kg dry	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichloropropane	ND	5.7	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-2.5 (17J0311-10) Soil Sampled: 10/05/17 12:55 Received: 10/05/17 16:52									
1,4-Dichlorobenzene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
1,4-Dichlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
2,2-Dichloropropane	ND	5.7	µg/kg dry	"	"	"	"	"	
2-Butanone	ND	100	µg/kg	"	"	"	"	"	
2-Butanone	ND	110	µg/kg dry	"	"	"	"	"	
2-Hexanone	ND	50	µg/kg	"	"	"	"	"	
2-Hexanone	ND	57	µg/kg dry	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	µg/kg	"	"	"	"	"	
4-Methyl-2-pentanone	ND	57	µg/kg dry	"	"	"	"	"	
Acetone	ND	100	µg/kg	"	"	"	"	"	
Acetone	ND	110	µg/kg dry	"	"	"	"	"	
Benzene	ND	5.0	µg/kg	"	"	"	"	"	
Benzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Bromobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Bromochloromethane	ND	5.7	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Bromoform	ND	5.0	µg/kg	"	"	"	"	"	
Bromoform	ND	5.7	µg/kg dry	"	"	"	"	"	
Bromomethane	ND	10	µg/kg	"	"	"	"	"	
Bromomethane	ND	11	µg/kg dry	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	µg/kg	"	"	"	"	"	
Carbon tetrachloride	ND	5.7	µg/kg dry	"	"	"	"	"	
Chlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Chlorobenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Chloroethane	ND	5.0	µg/kg	"	"	"	"	"	
Chloroethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Chloroform	ND	5.0	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-2.5 (17J0311-10) Soil Sampled: 10/05/17 12:55 Received: 10/05/17 16:52									
Chloroform	ND	5.7	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Chloromethane	ND	10	µg/kg	"	"	"	"	"	
Chloromethane	ND	11	µg/kg dry	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.7	µg/kg dry	"	"	"	"	"	
Dibromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromochloromethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Dibromomethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromomethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	11	µg/kg dry	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	µg/kg	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	µg/kg	"	"	"	"	"	
Hexachlorobutadiene	ND	5.7	µg/kg dry	"	"	"	"	"	
Isopropylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Isopropylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	µg/kg	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.7	µg/kg dry	"	"	"	"	"	
Methylene chloride	ND	20	µg/kg	"	"	"	"	"	
Methylene chloride	ND	23	µg/kg dry	"	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	"	
Naphthalene	ND	5.7	µg/kg dry	"	"	"	"	"	
n-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Butylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
n-Propylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Propylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	

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11249 Gold Country Blvd Ste 165	Project Number: [none]	**CLS Work Order #: 17J0311**
Gold River, CA 95670	Project Manager: Robert F.	COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-2.5 (17J0311-10) Soil Sampled: 10/05/17 12:55 Received: 10/05/17 16:52									
o-Chlorotoluene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
o-Chlorotoluene	ND	5.7	µg/kg dry	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Chlorotoluene	ND	5.7	µg/kg dry	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Isopropyltoluene	ND	5.7	µg/kg dry	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
sec-Butylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Styrene	ND	5.0	µg/kg	"	"	"	"	"	
Styrene	ND	5.7	µg/kg dry	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	µg/kg	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.7	µg/kg dry	"	"	"	"	"	
Tetrachloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Tetrachloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
Toluene	ND	5.0	µg/kg	"	"	"	"	"	
Toluene	ND	5.7	µg/kg dry	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.7	µg/kg dry	"	"	"	"	"	
Trichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Trichloroethene	ND	5.7	µg/kg dry	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	µg/kg	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	µg/kg dry	"	"	"	"	"	
Vinyl chloride	ND	11	"	"	"	"	"	"	
Vinyl chloride	ND	10	µg/kg	"	"	"	"	"	
Xylenes (total)	ND	11	µg/kg dry	"	"	"	"	"	
Xylenes (total)	ND	10	µg/kg	"	"	"	"	"	

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Project: Hayward #7371A
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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B4-2.5 (17J0311-10) Soil Sampled: 10/05/17 12:55 Received: 10/05/17 16:52									
Surrogate: 1,2-Dichloroethane-d4		*157 %*	*50-125*		*1707631*	"	*10/06/17*	*EPA 8260B*	*QS-4*
Surrogate: 1,2-Dichloroethane-d4		*157 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*113 %*	*50-128*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*50-128*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*62-125*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*62-125*		"	"	"	"	
B5-1.5 (17J0311-11) Soil Sampled: 10/05/17 13:00 Received: 10/05/17 16:52									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	1707631	10/06/17	10/06/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.8	µg/kg dry	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloroethene	ND	5.8	µg/kg dry	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
1,1-Dichloropropene	ND	5.8	µg/kg dry	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.8	µg/kg dry	"	"	"	"	"	

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Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-1.5 (17J0311-11) Soil Sampled: 10/05/17 13:00 Received: 10/05/17 16:52									
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12	µg/kg dry	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.8	µg/kg dry	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloroethane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,2-Dichloropropane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
1,3-Dichloropropane	ND	5.8	µg/kg dry	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	µg/kg	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	µg/kg	"	"	"	"	"	
2,2-Dichloropropane	ND	5.8	µg/kg dry	"	"	"	"	"	
2-Butanone	ND	100	µg/kg	"	"	"	"	"	
2-Butanone	ND	120	µg/kg dry	"	"	"	"	"	
2-Hexanone	ND	50	µg/kg	"	"	"	"	"	
2-Hexanone	ND	58	µg/kg dry	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	µg/kg	"	"	"	"	"	
4-Methyl-2-pentanone	ND	58	µg/kg dry	"	"	"	"	"	
Acetone	ND	100	µg/kg	"	"	"	"	"	
Acetone	ND	120	µg/kg dry	"	"	"	"	"	
Benzene	ND	5.0	µg/kg	"	"	"	"	"	

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Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-1.5 (17J0311-11) Soil Sampled: 10/05/17 13:00 Received: 10/05/17 16:52									
Benzene	ND	5.8	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Bromobenzene	ND	5.0	µg/kg	"	"	"	"	"	
Bromobenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
Bromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromochloromethane	ND	5.8	µg/kg dry	"	"	"	"	"	
Bromodichloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Bromodichloromethane	ND	5.8	µg/kg dry	"	"	"	"	"	
Bromoform	ND	5.8	"	"	"	"	"	"	
Bromoform	ND	5.0	µg/kg	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Bromomethane	ND	12	µg/kg dry	"	"	"	"	"	
Carbon tetrachloride	ND	5.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	µg/kg	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
Chloroethane	ND	5.0	µg/kg	"	"	"	"	"	
Chloroethane	ND	5.8	µg/kg dry	"	"	"	"	"	
Chloroform	ND	5.0	µg/kg	"	"	"	"	"	
Chloroform	ND	5.8	µg/kg dry	"	"	"	"	"	
Chloromethane	ND	10	µg/kg	"	"	"	"	"	
Chloromethane	ND	12	µg/kg dry	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.8	µg/kg dry	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.8	µg/kg dry	"	"	"	"	"	
Dibromochloromethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromochloromethane	ND	5.8	µg/kg dry	"	"	"	"	"	
Dibromomethane	ND	5.0	µg/kg	"	"	"	"	"	
Dibromomethane	ND	5.8	µg/kg dry	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	12	µg/kg dry	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-1.5 (17J0311-11) Soil Sampled: 10/05/17 13:00 Received: 10/05/17 16:52									
Di-isopropyl ether	ND	5.0	µg/kg	1	1707631	"	10/06/17	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	µg/kg	"	"	"	"	"	
Hexachlorobutadiene	ND	5.8	µg/kg dry	"	"	"	"	"	
Isopropylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
Isopropylbenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	µg/kg	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.8	µg/kg dry	"	"	"	"	"	
Methylene chloride	ND	20	µg/kg	"	"	"	"	"	
Methylene chloride	ND	23	µg/kg dry	"	"	"	"	"	
Naphthalene	ND	5.0	µg/kg	"	"	"	"	"	
Naphthalene	ND	5.8	µg/kg dry	"	"	"	"	"	
n-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Butylbenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
n-Propylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
n-Propylbenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
o-Chlorotoluene	ND	5.8	µg/kg dry	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Chlorotoluene	ND	5.8	µg/kg dry	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	µg/kg	"	"	"	"	"	
p-Isopropyltoluene	ND	5.8	µg/kg dry	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	µg/kg	"	"	"	"	"	
sec-Butylbenzene	ND	5.8	µg/kg dry	"	"	"	"	"	
Styrene	ND	5.0	µg/kg	"	"	"	"	"	
Styrene	ND	5.8	µg/kg dry	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	µg/kg	"	"	"	"	"	
tert-Butyl alcohol	ND	50	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B5-1.5 (17J0311-11) Soil Sampled: 10/05/17 13:00 Received: 10/05/17 16:52									
tert-Butylbenzene	ND	5.8	µg/kg dry	1	1707631	"	10/06/17	EPA 8260B	
Tetrachloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Tetrachloroethene	ND	5.8	µg/kg dry	"	"	"	"	"	
Toluene	ND	5.0	µg/kg	"	"	"	"	"	
Toluene	ND	5.8	µg/kg dry	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.8	µg/kg dry	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	µg/kg	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.8	µg/kg dry	"	"	"	"	"	
Trichloroethene	ND	5.8	"	"	"	"	"	"	
Trichloroethene	ND	5.0	µg/kg	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.8	µg/kg dry	"	"	"	"	"	
Vinyl chloride	ND	12	"	"	"	"	"	"	
Vinyl chloride	ND	10	µg/kg	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	12	µg/kg dry	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*161 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 1,2-Dichloroethane-d4		*161 %*	*50-125*		"	"	"	"	*QS-4*
Surrogate: 4-Bromofluorobenzene		*114 %*	*50-128*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*50-128*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*62-125*		"	"	"	"	
Surrogate: Toluene-d8		*90 %*	*62-125*		"	"	"	"	

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707597 - General Preparation										
Blank (1707597-BLK1)				Prepared & Analyzed: 10/06/17						
% Moisture	ND	1.0	%							
Solids, %	ND	1.00	"							

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707627 - EPA 5030 Water MS										
Blank (1707627-BLK1)				Prepared & Analyzed: 10/06/17						
Acetone	ND	10	µg/L							
Benzene	ND	0.50	"							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	1.0	"							
2-Butanone	ND	10	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	1.0	"							
o-Chlorotoluene	ND	0.50	"							
p-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane (Freon 12)	ND	1.0	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707627 - EPA 5030 Water MS										
Blank (1707627-BLK1)				Prepared & Analyzed: 10/06/17						
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
2-Hexanone	ND	10	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
4-Methyl-2-pentanone	ND	10	"							
Methyl tert-butyl ether	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707627 - EPA 5030 Water MS										
Blank (1707627-BLK1)				Prepared & Analyzed: 10/06/17						
Vinyl chloride	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Surrogate: 1,2-Dichloroethane-d4	*11.8*		"	*10.0*		*118*	*66-135*			
Surrogate: Toluene-d8	*9.46*		"	*10.0*		*95*	*72-125*			
Surrogate: 4-Bromofluorobenzene	*10.2*		"	*10.0*		*102*	*73-125*			
LCS (1707627-BS1)				Prepared & Analyzed: 10/06/17						
Benzene	18.7	0.50	µg/L	20.0		93	60-135			
Chlorobenzene	20.9	0.50	"	20.0		105	60-133			
1,1-Dichloroethene	20.7	0.50	"	20.0		104	42-150			
Toluene	21.7	0.50	"	20.0		109	60-137			
Trichloroethene	19.6	0.50	"	20.0		98	62-140			
Surrogate: 1,2-Dichloroethane-d4	*10.1*		"	*10.0*		*101*	*66-135*			
Surrogate: Toluene-d8	*10.1*		"	*10.0*		*101*	*72-125*			
Surrogate: 4-Bromofluorobenzene	*10.3*		"	*10.0*		*103*	*73-125*			
LCS Dup (1707627-BSD1)				Prepared & Analyzed: 10/06/17						
Benzene	17.2	0.50	µg/L	20.0		86	60-135	8	25	
Chlorobenzene	19.3	0.50	"	20.0		97	60-133	8	25	
1,1-Dichloroethene	18.8	0.50	"	20.0		94	42-150	10	25	
Toluene	20.0	0.50	"	20.0		100	60-137	8	25	
Trichloroethene	17.9	0.50	"	20.0		89	62-140	9	25	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		"	*10.0*		*102*	*66-135*			
Surrogate: Toluene-d8	*10.0*		"	*10.0*		*100*	*72-125*			
Surrogate: 4-Bromofluorobenzene	*9.98*		"	*10.0*		*100*	*73-125*			

eScreen Logic	Project: Hayward #7371A	
11249 Gold Country Blvd Ste 165	Project Number: [none]	**CLS Work Order #: 17J0311**
Gold River, CA 95670	Project Manager: Robert F.	COC #: 181979

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707631 - EPA 5030 Soil MS										
Blank (1707631-BLK1)				Prepared & Analyzed: 10/06/17						
Acetone	ND	100	µg/kg							
Acetone	ND	100	µg/kg wet							
Benzene	ND	5.0	µg/kg							
Benzene	ND	5.0	µg/kg wet							
Bromobenzene	ND	5.0	µg/kg							
Bromobenzene	ND	5.0	µg/kg wet							
Bromochloromethane	ND	5.0	µg/kg							
Bromochloromethane	ND	5.0	µg/kg wet							
Bromodichloromethane	ND	5.0	µg/kg							
Bromodichloromethane	ND	5.0	µg/kg wet							
Bromoform	ND	5.0	µg/kg							
Bromoform	ND	5.0	µg/kg wet							
Bromomethane	ND	10	µg/kg							
Bromomethane	ND	10	µg/kg wet							
2-Butanone	ND	100	"							
2-Butanone	ND	100	µg/kg							
n-Butylbenzene	ND	5.0	"							
n-Butylbenzene	ND	5.0	µg/kg wet							
sec-Butylbenzene	ND	5.0	µg/kg							
sec-Butylbenzene	ND	5.0	µg/kg wet							
tert-Butylbenzene	ND	5.0	µg/kg							
tert-Butylbenzene	ND	5.0	µg/kg wet							
Carbon tetrachloride	ND	5.0	µg/kg							
Carbon tetrachloride	ND	5.0	µg/kg wet							
Chlorobenzene	ND	5.0	µg/kg							
Chlorobenzene	ND	5.0	µg/kg wet							
Chloroethane	ND	5.0	µg/kg							
Chloroethane	ND	5.0	µg/kg wet							
Chloroform	ND	5.0	µg/kg							
Chloroform	ND	5.0	µg/kg wet							
Chloromethane	ND	10	µg/kg							

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Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707631 - EPA 5030 Soil MS										
Blank (1707631-BLK1)			Prepared & Analyzed: 10/06/17							
Chloromethane	ND	10	µg/kg wet							
o-Chlorotoluene	ND	5.0	µg/kg							
o-Chlorotoluene	ND	5.0	µg/kg wet							
p-Chlorotoluene	ND	5.0	µg/kg							
p-Chlorotoluene	ND	5.0	µg/kg wet							
Dibromochloromethane	ND	5.0	µg/kg							
Dibromochloromethane	ND	5.0	µg/kg wet							
1,2-Dibromo-3-chloropropane	ND	10	µg/kg							
1,2-Dibromo-3-chloropropane	ND	10	µg/kg wet							
1,2-Dibromoethane (EDB)	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	µg/kg							
Dibromomethane	ND	5.0	"							
Dibromomethane	ND	5.0	µg/kg wet							
1,2-Dichlorobenzene	ND	5.0	µg/kg							
1,2-Dichlorobenzene	ND	5.0	µg/kg wet							
1,3-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	µg/kg							
1,4-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	µg/kg wet							
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg							
Dichlorodifluoromethane (Freon 12)	ND	10	µg/kg wet							
1,1-Dichloroethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	µg/kg							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	µg/kg wet							
1,1-Dichloroethene	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	µg/kg							
cis-1,2-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	µg/kg wet							
trans-1,2-Dichloroethene	ND	5.0	µg/kg							
trans-1,2-Dichloroethene	ND	5.0	µg/kg wet							

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Project: Hayward #7371A
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CLS Work Order #: 17J0311
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707631 - EPA 5030 Soil MS										
Blank (1707631-BLK1)				Prepared & Analyzed: 10/06/17						
1,2-Dichloropropane	ND	5.0	µg/kg wet							
1,2-Dichloropropane	ND	5.0	µg/kg							
1,3-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	µg/kg wet							
2,2-Dichloropropane	ND	5.0	µg/kg							
2,2-Dichloropropane	ND	5.0	µg/kg wet							
1,1-Dichloropropene	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	µg/kg							
cis-1,3-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	µg/kg wet							
trans-1,3-Dichloropropene	ND	5.0	µg/kg							
trans-1,3-Dichloropropene	ND	5.0	µg/kg wet							
Ethylbenzene	ND	5.0	µg/kg							
Ethylbenzene	ND	5.0	µg/kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/kg wet							
Hexachlorobutadiene	ND	5.0	µg/kg							
Hexachlorobutadiene	ND	5.0	µg/kg wet							
2-Hexanone	ND	50	"							
2-Hexanone	ND	50	µg/kg							
Isopropylbenzene	ND	5.0	"							
Isopropylbenzene	ND	5.0	µg/kg wet							
p-Isopropyltoluene	ND	5.0	µg/kg							
p-Isopropyltoluene	ND	5.0	µg/kg wet							
Methylene chloride	ND	20	µg/kg							
Methylene chloride	ND	20	µg/kg wet							
4-Methyl-2-pentanone	ND	50	µg/kg							
4-Methyl-2-pentanone	ND	50	µg/kg wet							
Methyl tert-butyl ether	ND	5.0	µg/kg							
Methyl tert-butyl ether	ND	5.0	µg/kg wet							

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Project: Hayward #7371A
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COC #: 181979

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707631 - EPA 5030 Soil MS										
Blank (1707631-BLK1)				Prepared & Analyzed: 10/06/17						
Naphthalene	ND	5.0	µg/kg							
Naphthalene	ND	5.0	µg/kg wet							
n-Propylbenzene	ND	5.0	µg/kg							
n-Propylbenzene	ND	5.0	µg/kg wet							
Styrene	ND	5.0	µg/kg							
Styrene	ND	5.0	µg/kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg							
1,1,2,2-Tetrachloroethane	ND	5.0	µg/kg wet							
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg wet							
Tetrachloroethene	ND	5.0	µg/kg							
Tetrachloroethene	ND	5.0	µg/kg wet							
Toluene	ND	5.0	µg/kg							
Toluene	ND	5.0	µg/kg wet							
1,2,3-Trichlorobenzene	ND	5.0	µg/kg							
1,2,3-Trichlorobenzene	ND	5.0	µg/kg wet							
1,2,4-Trichlorobenzene	ND	5.0	µg/kg							
1,2,4-Trichlorobenzene	ND	5.0	µg/kg wet							
1,1,2-Trichloroethane	ND	5.0	µg/kg							
1,1,2-Trichloroethane	ND	5.0	µg/kg wet							
1,1,1-Trichloroethane	ND	5.0	µg/kg							
1,1,1-Trichloroethane	ND	5.0	µg/kg wet							
Trichloroethene	ND	5.0	µg/kg							
Trichloroethene	ND	5.0	µg/kg wet							
Trichlorofluoromethane	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	µg/kg							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	µg/kg wet							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	µg/kg							
1,2,4-Trimethylbenzene	ND	5.0	"							

eScreen Logic	Project: Hayward #7371A	
11249 Gold Country Blvd Ste 165	Project Number: [none]	**CLS Work Order #: 17J0311**
Gold River, CA 95670	Project Manager: Robert F.	COC #: 181979

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707631 - EPA 5030 Soil MS										
Blank (1707631-BLK1)				Prepared & Analyzed: 10/06/17						
1,2,4-Trimethylbenzene	ND	5.0	µg/kg wet							
Vinyl chloride	ND	10	"							
Vinyl chloride	ND	10	µg/kg							
Xylenes (total)	ND	10	µg/kg wet							
Xylenes (total)	ND	10	µg/kg							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
tert-Butyl alcohol	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*41.0*		*µg/kg wet*	*30.0*		*137*	*50-125*			*QS-HI*
Surrogate: 1,2-Dichloroethane-d4	*41.0*		*µg/kg*	*30.0*		*137*	*50-125*			*QS-HI*
Surrogate: Toluene-d8	*25.9*		*"*	*30.0*		*86*	*62-125*			
Surrogate: Toluene-d8	*25.9*		*µg/kg wet*	*30.0*		*86*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*33.6*		*"*	*30.0*		*112*	*50-128*			
Surrogate: 4-Bromofluorobenzene	*33.6*		*µg/kg*	*30.0*		*112*	*50-128*			
LCS (1707631-BS1)				Prepared & Analyzed: 10/06/17						
Benzene	17.5	5.0	µg/kg wet	20.0		87	64-135			
Benzene	17.5	5.0	µg/kg	20.0		87	64-135			
Chlorobenzene	19.2	5.0	µg/kg wet	20.0		96	67-133			
Chlorobenzene	19.2	5.0	µg/kg	20.0		96	67-133			
1,1-Dichloroethene	20.8	5.0	µg/kg wet	20.0		104	53-137			
1,1-Dichloroethene	20.8	5.0	µg/kg	20.0		104	53-137			
Toluene	18.2	5.0	"	20.0		91	61-138			
Toluene	18.2	5.0	µg/kg wet	20.0		91	61-138			
Trichloroethene	17.3	5.0	µg/kg	20.0		87	64-130			
Trichloroethene	17.3	5.0	µg/kg wet	20.0		87	64-130			
Surrogate: 1,2-Dichloroethane-d4	*33.6*		*µg/kg*	*30.0*		*112*	*50-125*			
Surrogate: 1,2-Dichloroethane-d4	*33.6*		*µg/kg wet*	*30.0*		*112*	*50-125*			
Surrogate: Toluene-d8	*31.1*		*µg/kg*	*30.0*		*104*	*62-125*			
Surrogate: Toluene-d8	*31.1*		*µg/kg wet*	*30.0*		*104*	*62-125*			

eScreen Logic
11249 Gold Country Blvd Ste 165
Gold River, CA 95670

Project: Hayward #7371A
Project Number: [none]
Project Manager: Robert F.

CLS Work Order #: 17J0311
COC #: 181979

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707631 - EPA 5030 Soil MS										
LCS (1707631-BS1)				Prepared & Analyzed: 10/06/17						
Surrogate: 4-Bromofluorobenzene	*35.0*		*µg/kg*	*30.0*		*117*	*50-128*			
Surrogate: 4-Bromofluorobenzene	*35.0*		*µg/kg wet*	*30.0*		*117*	*50-128*			
LCS Dup (1707631-BSD1)				Prepared & Analyzed: 10/06/17						
Benzene	18.4	5.0	µg/kg wet	20.0		92	64-135	5	30	
Benzene	18.4	5.0	µg/kg	20.0		92	64-135	5	30	
Chlorobenzene	19.7	5.0	µg/kg wet	20.0		98	67-133	3	30	
Chlorobenzene	19.7	5.0	µg/kg	20.0		98	67-133	3	30	
1,1-Dichloroethene	21.8	5.0	µg/kg wet	20.0		109	53-137	5	30	
1,1-Dichloroethene	21.8	5.0	µg/kg	20.0		109	53-137	5	30	
Toluene	18.6	5.0	µg/kg wet	20.0		93	61-138	2	30	
Toluene	18.6	5.0	µg/kg	20.0		93	61-138	2	30	
Trichloroethene	18.0	5.0	µg/kg wet	20.0		90	64-130	4	30	
Trichloroethene	18.0	5.0	µg/kg	20.0		90	64-130	4	30	
Surrogate: 1,2-Dichloroethane-d4	*33.8*		*"*	*30.0*		*113*	*50-125*			
Surrogate: 1,2-Dichloroethane-d4	*33.8*		*µg/kg wet*	*30.0*		*113*	*50-125*			
Surrogate: Toluene-d8	*30.9*		*µg/kg*	*30.0*		*103*	*62-125*			
Surrogate: Toluene-d8	*30.9*		*µg/kg wet*	*30.0*		*103*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*31.9*		*"*	*30.0*		*106*	*50-128*			
Surrogate: 4-Bromofluorobenzene	*31.9*		*µg/kg*	*30.0*		*106*	*50-128*			
Matrix Spike (1707631-MS1)	**Source: 17J0181-07**			Prepared: 10/06/17 Analyzed: 10/07/17						
Benzene	11.1	5.0	µg/kg	20.0	ND	55	58-139			QM-5
Benzene	11.1	5.0	µg/kg wet	20.0	ND	55	58-139			QM-5
Chlorobenzene	9.06	5.0	"	20.0	ND	45	62-134			QM-5
Chlorobenzene	9.06	5.0	µg/kg	20.0	ND	45	62-134			QM-5
1,1-Dichloroethene	15.1	5.0	µg/kg wet	20.0	ND	76	53-152			
1,1-Dichloroethene	15.1	5.0	µg/kg	20.0	ND	76	53-152			
Toluene	9.76	5.0	µg/kg wet	20.0	ND	49	58-139			QM-5
Toluene	9.76	5.0	µg/kg	20.0	ND	49	58-139			QM-5
Trichloroethene	9.58	5.0	µg/kg wet	20.0	ND	48	55-138			QM-5
Trichloroethene	9.58	5.0	µg/kg	20.0	ND	48	55-138			QM-5

eScreen Logic	Project: Hayward #7371A	
11249 Gold Country Blvd Ste 165	Project Number: [none]	**CLS Work Order #: 17J0311**
Gold River, CA 95670	Project Manager: Robert F.	COC #: 181979

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1707631 - EPA 5030 Soil MS										
Matrix Spike (1707631-MS1)	**Source: 17J0181-07**			Prepared: 10/06/17 Analyzed: 10/07/17						
Surrogate: 1,2-Dichloroethane-d4	*37.8*		*µg/kg wet*	*30.0*		*126*	*50-125*			*QM-5*
Surrogate: 1,2-Dichloroethane-d4	*37.8*		*µg/kg*	*30.0*		*126*	*50-125*			*QM-5*
Surrogate: Toluene-d8	*30.0*		*"*	*30.0*		*100*	*62-125*			
Surrogate: Toluene-d8	*30.0*		*µg/kg wet*	*30.0*		*100*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*34.4*		*µg/kg*	*30.0*		*115*	*50-128*			
Surrogate: 4-Bromofluorobenzene	*34.4*		*µg/kg wet*	*30.0*		*115*	*50-128*			
Matrix Spike Dup (1707631-MSD1)	**Source: 17J0181-07**			Prepared: 10/06/17 Analyzed: 10/07/17						
Benzene	10.2	5.0	µg/kg wet	20.0	ND	51	58-139	9	30	QM-5
Benzene	10.2	5.0	µg/kg	20.0	ND	51	58-139	9	30	QM-5
Chlorobenzene	8.93	5.0	"	20.0	ND	45	62-134	1	30	QM-5
Chlorobenzene	8.93	5.0	µg/kg wet	20.0	ND	45	62-134	1	30	QM-5
1,1-Dichloroethene	13.6	5.0	"	20.0	ND	68	53-152	11	30	
1,1-Dichloroethene	13.6	5.0	µg/kg	20.0	ND	68	53-152	11	30	
Toluene	8.96	5.0	µg/kg wet	20.0	ND	45	58-139	9	30	QM-5
Toluene	8.96	5.0	µg/kg	20.0	ND	45	58-139	9	30	QM-5
Trichloroethene	8.77	5.0	"	20.0	ND	44	55-138	9	30	QM-5
Trichloroethene	8.77	5.0	µg/kg wet	20.0	ND	44	55-138	9	30	QM-5
Surrogate: 1,2-Dichloroethane-d4	*38.6*		*"*	*30.0*		*129*	*50-125*			*QM-5*
Surrogate: 1,2-Dichloroethane-d4	*38.6*		*µg/kg*	*30.0*		*129*	*50-125*			*QM-5*
Surrogate: Toluene-d8	*30.3*		*"*	*30.0*		*101*	*62-125*			
Surrogate: Toluene-d8	*30.3*		*µg/kg wet*	*30.0*		*101*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*34.4*		*"*	*30.0*		*115*	*50-128*			
Surrogate: 4-Bromofluorobenzene	*34.4*		*µg/kg*	*30.0*		*115*	*50-128*			

eScreen Logic	Project: Hayward #7371A	
11249 Gold Country Blvd Ste 165	Project Number: [none]	**CLS Work Order #: 17J0311**
Gold River, CA 95670	Project Manager: Robert F.	COC #: 181979

Notes and Definitions

QS-HI	Surrogate recovery was greater than the upper control limit. A reanalysis was not performed since the analytes associated with the surrogate were not detected.
QS-4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-5	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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10/16/2017
Mr. Rob Fagerness
eScreenLogic, Inc.
11249 Gold Country Blvd
Suite 165
Gold River CA 95670

Project Name: HAYWARD
Project #: 7371A
Workorder #: 1710128

Dear Mr. Rob Fagerness

The following report includes the data for the above referenced project for sample(s) received on 10/6/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1710128

Work Order Summary

CLIENT:	Mr. Rob Fagerness eScreenLogic, Inc. 11249 Gold Country Blvd Suite 165 Gold River, CA 95670	**BILL TO:**	Mr. Rob Fagerness eScreenLogic, Inc. 11249 Gold Country Blvd Suite 165 Gold River, CA 95670
PHONE:	(916) 288-8176	**P.O. #**	
FAX:		**PROJECT #**	7371A HAYWARD
DATE RECEIVED:	10/06/2017	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	10/16/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	B3-SV-2.0	TO-15	4.1 "Hg	15 psi
02A	B4-SV-1.5	TO-15	4.3 "Hg	14.9 psi
03A	B5-SV-1.5	TO-15	4.9 "Hg	15 psi
04A	SSV5	TO-15	4.7 "Hg	14.9 psi
05A	SSV6	TO-15	3.9 "Hg	14.8 psi
06A	SSV7	TO-15	4.7 "Hg	14.9 psi
07A	Lab Blank	TO-15	NA	NA
08A	CCV	TO-15	NA	NA
09A	LCS	TO-15	NA	NA
09AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/16/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
eScreenLogic, Inc.
Workorder# 1710128

Six 1 Liter Summa Canister samples were received on October 06, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Dilution was performed on samples SSV5, SSV6 and SSV7 due to the presence of high level target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B3-SV-2.0

Lab ID#: 1710128-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.7	5.6	8.8	11
Acetone	12	33	28	79
2-Propanol	4.7	28	12	68
Chloroform	1.2	5.1	5.7	25
Cyclohexane	1.2	1.3	4.0	4.5
Trichloroethene	1.2	1.8	6.3	10
Toluene	1.2	1.8	4.4	6.8
Tetrachloroethene	1.2	41	7.9	280
TPH ref. to Gasoline (MW=100)	120	5900	480	24000

Client Sample ID: B4-SV-1.5

Lab ID#: 1710128-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	63	28	150
2-Propanol	4.7	50	12	120
Chloroform	1.2	1.6	5.7	8.0
1,1,1-Trichloroethane	1.2	1.5	6.4	8.2
Cyclohexane	1.2	2.8	4.0	9.8
Trichloroethene	1.2	3.2	6.3	17
4-Methyl-2-pentanone	1.2	1.8	4.8	7.5
Tetrachloroethene	1.2	220	8.0	1500
Naphthalene	2.4	3.3	12	17
TPH ref. to Gasoline (MW=100)	120	260	480	1100

Client Sample ID: B5-SV-1.5

Lab ID#: 1710128-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	1.2	1.5	5.9	7.4
Tetrachloroethene	1.2	19	8.2	130

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SSV5

Lab ID#: 1710128-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	160	260	380	610
2-Propanol	64	8100 E	160	20000 E
Tetrachloroethene	16	90	110	610

Client Sample ID: SSV6

Lab ID#: 1710128-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	120	250	270	590
2-Propanol	46	8800 E	110	22000 E
Tetrachloroethene	12	150	78	1000

Client Sample ID: SSV7

Lab ID#: 1710128-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	240	270	570	650
2-Propanol	96	13000 E	230	32000 E
Tetrachloroethene	24	33	160	220

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Client Sample ID: B3-SV-2.0

Lab ID#: 1710128-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100919**	**Date of Collection:**	**10/6/17 10:17:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**10/9/17 08:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Ethanol	4.7	5.6	8.8	11
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	33	28	79
2-Propanol	4.7	28	12	68
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	5.1	5.7	25
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	1.3	4.0	4.5
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.5	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	1.8	6.3	10
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	1.8	4.4	6.8
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	41	7.9	280
2-Hexanone	4.7	Not Detected	19	Not Detected

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Client Sample ID: B3-SV-2.0

Lab ID#: 1710128-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100919**	**Date of Collection:**	**10/6/17 10:17:00 AM**
Dil. Factor:	**2.34**	**Date of Analysis:**	**10/9/17 08:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected
TPH ref. to Gasoline (MW=100)	120	5900	480	24000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	92	70-130

eurofins | Air Toxics

Client Sample ID: B4-SV-1.5

Lab ID#: 1710128-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100907**	**Date of Collection:**	**10/6/17 10:26:00 AM**
Dil. Factor:	**2.35**	**Date of Analysis:**	**10/9/17 02:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	63	28	150
2-Propanol	4.7	50	12	120
Carbon Disulfide	4.7	Not Detected	15	Not Detected
3-Chloropropene	4.7	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	1.6	5.7	8.0
1,1,1-Trichloroethane	1.2	1.5	6.4	8.2
Cyclohexane	1.2	2.8	4.0	9.8
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	3.2	6.3	17
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.9	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	1.8	4.8	7.5
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	220	8.0	1500
2-Hexanone	4.7	Not Detected	19	Not Detected

eurofins | Air Toxics

Client Sample ID: B4-SV-1.5

Lab ID#: 1710128-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100907**	**Date of Collection:**	**10/6/17 10:26:00 AM**
Dil. Factor:	**2.35**	**Date of Analysis:**	**10/9/17 02:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.1	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.1	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Naphthalene	2.4	3.3	12	17
TPH ref. to Gasoline (MW=100)	120	260	480	1100

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: B5-SV-1.5

Lab ID#: 1710128-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100908**	**Date of Collection:**	**10/6/17 10:34:00 AM**
Dil. Factor:	**2.41**	**Date of Analysis:**	**10/9/17 02:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	1.5	5.9	7.4
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	19	8.2	130
2-Hexanone	4.8	Not Detected	20	Not Detected

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Client Sample ID: B5-SV-1.5

Lab ID#: 1710128-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100908**	**Date of Collection:**	**10/6/17 10:34:00 AM**
Dil. Factor:	**2.41**	**Date of Analysis:**	**10/9/17 02:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Naphthalene	2.4	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	490	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	88	70-130

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Client Sample ID: SSV5

Lab ID#: 1710128-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100910**	**Date of Collection:**	**10/6/17 10:44:00 AM**
Dil. Factor:	**31.8**	**Date of Analysis:**	**10/9/17 03:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	16	Not Detected	79	Not Detected
Freon 114	16	Not Detected	110	Not Detected
Chloromethane	160	Not Detected	330	Not Detected
Vinyl Chloride	16	Not Detected	41	Not Detected
1,3-Butadiene	16	Not Detected	35	Not Detected
Bromomethane	160	Not Detected	620	Not Detected
Chloroethane	64	Not Detected	170	Not Detected
Freon 11	16	Not Detected	89	Not Detected
Ethanol	64	Not Detected	120	Not Detected
Freon 113	16	Not Detected	120	Not Detected
1,1-Dichloroethene	16	Not Detected	63	Not Detected
Acetone	160	260	380	610
2-Propanol	64	8100 E	160	20000 E
Carbon Disulfide	64	Not Detected	200	Not Detected
3-Chloropropene	64	Not Detected	200	Not Detected
Methylene Chloride	160	Not Detected	550	Not Detected
Methyl tert-butyl ether	64	Not Detected	230	Not Detected
trans-1,2-Dichloroethene	16	Not Detected	63	Not Detected
Hexane	16	Not Detected	56	Not Detected
1,1-Dichloroethane	16	Not Detected	64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	64	Not Detected	190	Not Detected
cis-1,2-Dichloroethene	16	Not Detected	63	Not Detected
Tetrahydrofuran	16	Not Detected	47	Not Detected
Chloroform	16	Not Detected	78	Not Detected
1,1,1-Trichloroethane	16	Not Detected	87	Not Detected
Cyclohexane	16	Not Detected	55	Not Detected
Carbon Tetrachloride	16	Not Detected	100	Not Detected
2,2,4-Trimethylpentane	16	Not Detected	74	Not Detected
Benzene	16	Not Detected	51	Not Detected
1,2-Dichloroethane	16	Not Detected	64	Not Detected
Heptane	16	Not Detected	65	Not Detected
Trichloroethene	16	Not Detected	85	Not Detected
1,2-Dichloropropane	16	Not Detected	73	Not Detected
1,4-Dioxane	64	Not Detected	230	Not Detected
Bromodichloromethane	16	Not Detected	110	Not Detected
cis-1,3-Dichloropropene	16	Not Detected	72	Not Detected
4-Methyl-2-pentanone	16	Not Detected	65	Not Detected
Toluene	16	Not Detected	60	Not Detected
trans-1,3-Dichloropropene	16	Not Detected	72	Not Detected
1,1,2-Trichloroethane	16	Not Detected	87	Not Detected
Tetrachloroethene	16	90	110	610
2-Hexanone	64	Not Detected	260	Not Detected

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Client Sample ID: SSV5

Lab ID#: 1710128-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100910**	**Date of Collection:**	**10/6/17 10:44:00 AM**
Dil. Factor:	**31.8**	**Date of Analysis:**	**10/9/17 03:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	16	Not Detected	140	Not Detected
1,2-Dibromoethane (EDB)	16	Not Detected	120	Not Detected
Chlorobenzene	16	Not Detected	73	Not Detected
Ethyl Benzene	16	Not Detected	69	Not Detected
m,p-Xylene	16	Not Detected	69	Not Detected
o-Xylene	16	Not Detected	69	Not Detected
Styrene	16	Not Detected	68	Not Detected
Bromoform	16	Not Detected	160	Not Detected
Cumene	16	Not Detected	78	Not Detected
1,1,2,2-Tetrachloroethane	16	Not Detected	110	Not Detected
Propylbenzene	16	Not Detected	78	Not Detected
4-Ethyltoluene	16	Not Detected	78	Not Detected
1,3,5-Trimethylbenzene	16	Not Detected	78	Not Detected
1,2,4-Trimethylbenzene	16	Not Detected	78	Not Detected
1,3-Dichlorobenzene	16	Not Detected	96	Not Detected
1,4-Dichlorobenzene	16	Not Detected	96	Not Detected
alpha-Chlorotoluene	16	Not Detected	82	Not Detected
1,2-Dichlorobenzene	16	Not Detected	96	Not Detected
1,2,4-Trichlorobenzene	64	Not Detected	470	Not Detected
Hexachlorobutadiene	64	Not Detected	680	Not Detected
Naphthalene	32	Not Detected	170	Not Detected
TPH ref. to Gasoline (MW=100)	1600	Not Detected	6500	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	88	70-130

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Client Sample ID: SSV6

Lab ID#: 1710128-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100911**	**Date of Collection:**	**10/6/17 10:51:00 AM**
Dil. Factor:	**23.1**	**Date of Analysis:**	**10/9/17 03:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12	Not Detected	57	Not Detected
Freon 114	12	Not Detected	81	Not Detected
Chloromethane	120	Not Detected	240	Not Detected
Vinyl Chloride	12	Not Detected	30	Not Detected
1,3-Butadiene	12	Not Detected	26	Not Detected
Bromomethane	120	Not Detected	450	Not Detected
Chloroethane	46	Not Detected	120	Not Detected
Freon 11	12	Not Detected	65	Not Detected
Ethanol	46	Not Detected	87	Not Detected
Freon 113	12	Not Detected	88	Not Detected
1,1-Dichloroethene	12	Not Detected	46	Not Detected
Acetone	120	250	270	590
2-Propanol	46	8800 E	110	22000 E
Carbon Disulfide	46	Not Detected	140	Not Detected
3-Chloropropene	46	Not Detected	140	Not Detected
Methylene Chloride	120	Not Detected	400	Not Detected
Methyl tert-butyl ether	46	Not Detected	170	Not Detected
trans-1,2-Dichloroethene	12	Not Detected	46	Not Detected
Hexane	12	Not Detected	41	Not Detected
1,1-Dichloroethane	12	Not Detected	47	Not Detected
2-Butanone (Methyl Ethyl Ketone)	46	Not Detected	140	Not Detected
cis-1,2-Dichloroethene	12	Not Detected	46	Not Detected
Tetrahydrofuran	12	Not Detected	34	Not Detected
Chloroform	12	Not Detected	56	Not Detected
1,1,1-Trichloroethane	12	Not Detected	63	Not Detected
Cyclohexane	12	Not Detected	40	Not Detected
Carbon Tetrachloride	12	Not Detected	73	Not Detected
2,2,4-Trimethylpentane	12	Not Detected	54	Not Detected
Benzene	12	Not Detected	37	Not Detected
1,2-Dichloroethane	12	Not Detected	47	Not Detected
Heptane	12	Not Detected	47	Not Detected
Trichloroethene	12	Not Detected	62	Not Detected
1,2-Dichloropropane	12	Not Detected	53	Not Detected
1,4-Dioxane	46	Not Detected	170	Not Detected
Bromodichloromethane	12	Not Detected	77	Not Detected
cis-1,3-Dichloropropene	12	Not Detected	52	Not Detected
4-Methyl-2-pentanone	12	Not Detected	47	Not Detected
Toluene	12	Not Detected	44	Not Detected
trans-1,3-Dichloropropene	12	Not Detected	52	Not Detected
1,1,2-Trichloroethane	12	Not Detected	63	Not Detected
Tetrachloroethene	12	150	78	1000
2-Hexanone	46	Not Detected	190	Not Detected

eurofins | Air Toxics

Client Sample ID: SSV6
Lab ID#: 1710128-05A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100911**	**Date of Collection:**	**10/6/17 10:51:00 AM**
Dil. Factor:	**23.1**	**Date of Analysis:**	**10/9/17 03:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	12	Not Detected	98	Not Detected
1,2-Dibromoethane (EDB)	12	Not Detected	89	Not Detected
Chlorobenzene	12	Not Detected	53	Not Detected
Ethyl Benzene	12	Not Detected	50	Not Detected
m,p-Xylene	12	Not Detected	50	Not Detected
o-Xylene	12	Not Detected	50	Not Detected
Styrene	12	Not Detected	49	Not Detected
Bromoform	12	Not Detected	120	Not Detected
Cumene	12	Not Detected	57	Not Detected
1,1,2,2-Tetrachloroethane	12	Not Detected	79	Not Detected
Propylbenzene	12	Not Detected	57	Not Detected
4-Ethyltoluene	12	Not Detected	57	Not Detected
1,3,5-Trimethylbenzene	12	Not Detected	57	Not Detected
1,2,4-Trimethylbenzene	12	Not Detected	57	Not Detected
1,3-Dichlorobenzene	12	Not Detected	69	Not Detected
1,4-Dichlorobenzene	12	Not Detected	69	Not Detected
alpha-Chlorotoluene	12	Not Detected	60	Not Detected
1,2-Dichlorobenzene	12	Not Detected	69	Not Detected
1,2,4-Trichlorobenzene	46	Not Detected	340	Not Detected
Hexachlorobutadiene	46	Not Detected	490	Not Detected
Naphthalene	23	Not Detected	120	Not Detected
TPH ref. to Gasoline (MW=100)	1200	Not Detected	4700	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	88	70-130

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Client Sample ID: SSV7

Lab ID#: 1710128-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100912**	**Date of Collection:**	**10/6/17 11:07:00 AM**
Dil. Factor:	**47.8**	**Date of Analysis:**	**10/9/17 04:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	24	Not Detected	120	Not Detected
Freon 114	24	Not Detected	170	Not Detected
Chloromethane	240	Not Detected	490	Not Detected
Vinyl Chloride	24	Not Detected	61	Not Detected
1,3-Butadiene	24	Not Detected	53	Not Detected
Bromomethane	240	Not Detected	930	Not Detected
Chloroethane	96	Not Detected	250	Not Detected
Freon 11	24	Not Detected	130	Not Detected
Ethanol	96	Not Detected	180	Not Detected
Freon 113	24	Not Detected	180	Not Detected
1,1-Dichloroethene	24	Not Detected	95	Not Detected
Acetone	240	270	570	650
2-Propanol	96	13000 E	230	32000 E
Carbon Disulfide	96	Not Detected	300	Not Detected
3-Chloropropene	96	Not Detected	300	Not Detected
Methylene Chloride	240	Not Detected	830	Not Detected
Methyl tert-butyl ether	96	Not Detected	340	Not Detected
trans-1,2-Dichloroethene	24	Not Detected	95	Not Detected
Hexane	24	Not Detected	84	Not Detected
1,1-Dichloroethane	24	Not Detected	97	Not Detected
2-Butanone (Methyl Ethyl Ketone)	96	Not Detected	280	Not Detected
cis-1,2-Dichloroethene	24	Not Detected	95	Not Detected
Tetrahydrofuran	24	Not Detected	70	Not Detected
Chloroform	24	Not Detected	120	Not Detected
1,1,1-Trichloroethane	24	Not Detected	130	Not Detected
Cyclohexane	24	Not Detected	82	Not Detected
Carbon Tetrachloride	24	Not Detected	150	Not Detected
2,2,4-Trimethylpentane	24	Not Detected	110	Not Detected
Benzene	24	Not Detected	76	Not Detected
1,2-Dichloroethane	24	Not Detected	97	Not Detected
Heptane	24	Not Detected	98	Not Detected
Trichloroethene	24	Not Detected	130	Not Detected
1,2-Dichloropropane	24	Not Detected	110	Not Detected
1,4-Dioxane	96	Not Detected	340	Not Detected
Bromodichloromethane	24	Not Detected	160	Not Detected
cis-1,3-Dichloropropene	24	Not Detected	110	Not Detected
4-Methyl-2-pentanone	24	Not Detected	98	Not Detected
Toluene	24	Not Detected	90	Not Detected
trans-1,3-Dichloropropene	24	Not Detected	110	Not Detected
1,1,2-Trichloroethane	24	Not Detected	130	Not Detected
Tetrachloroethene	24	33	160	220
2-Hexanone	96	Not Detected	390	Not Detected

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Client Sample ID: SSV7

Lab ID#: 1710128-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100912**	**Date of Collection:**	**10/6/17 11:07:00 AM**
Dil. Factor:	**47.8**	**Date of Analysis:**	**10/9/17 04:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	24	Not Detected	200	Not Detected
1,2-Dibromoethane (EDB)	24	Not Detected	180	Not Detected
Chlorobenzene	24	Not Detected	110	Not Detected
Ethyl Benzene	24	Not Detected	100	Not Detected
m,p-Xylene	24	Not Detected	100	Not Detected
o-Xylene	24	Not Detected	100	Not Detected
Styrene	24	Not Detected	100	Not Detected
Bromoform	24	Not Detected	250	Not Detected
Cumene	24	Not Detected	120	Not Detected
1,1,2,2-Tetrachloroethane	24	Not Detected	160	Not Detected
Propylbenzene	24	Not Detected	120	Not Detected
4-Ethyltoluene	24	Not Detected	120	Not Detected
1,3,5-Trimethylbenzene	24	Not Detected	120	Not Detected
1,2,4-Trimethylbenzene	24	Not Detected	120	Not Detected
1,3-Dichlorobenzene	24	Not Detected	140	Not Detected
1,4-Dichlorobenzene	24	Not Detected	140	Not Detected
alpha-Chlorotoluene	24	Not Detected	120	Not Detected
1,2-Dichlorobenzene	24	Not Detected	140	Not Detected
1,2,4-Trichlorobenzene	96	Not Detected	710	Not Detected
Hexachlorobutadiene	96	Not Detected	1000	Not Detected
Naphthalene	48	Not Detected	250	Not Detected
TPH ref. to Gasoline (MW=100)	2400	Not Detected	9800	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	118	70-130
4-Bromofluorobenzene	90	70-130

Client Sample ID: Lab Blank

Lab ID#: 1710128-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/17 10:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1710128-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/17 10:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	86	70-130

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Client Sample ID: CCV

Lab ID#: 1710128-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/17 08:06 AM**	

Compound	%Recovery
Freon 12	110
Freon 114	96
Chloromethane	129
Vinyl Chloride	124
1,3-Butadiene	121
Bromomethane	115
Chloroethane	122
Freon 11	102
Ethanol	122
Freon 113	91
1,1-Dichloroethene	103
Acetone	108
2-Propanol	119
Carbon Disulfide	119
3-Chloropropene	111
Methylene Chloride	132 Q
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	113
Hexane	118
1,1-Dichloroethane	128
2-Butanone (Methyl Ethyl Ketone)	118
cis-1,2-Dichloroethene	111
Tetrahydrofuran	124
Chloroform	116
1,1,1-Trichloroethane	106
Cyclohexane	112
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	126
Benzene	121
1,2-Dichloroethane	125
Heptane	122
Trichloroethene	110
1,2-Dichloropropane	131 Q
1,4-Dioxane	106
Bromodichloromethane	116
cis-1,3-Dichloropropene	116
4-Methyl-2-pentanone	118
Toluene	113
trans-1,3-Dichloropropene	122
1,1,2-Trichloroethane	116
Tetrachloroethene	98
2-Hexanone	123

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Client Sample ID: CCV

Lab ID#: 1710128-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/17 08:06 AM**	

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	109
Chlorobenzene	104
Ethyl Benzene	105
m,p-Xylene	107
o-Xylene	105
Styrene	123
Bromoform	101
Cumene	107
1,1,2,2-Tetrachloroethane	122
Propylbenzene	112
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	100
Naphthalene	75
TPH ref. to Gasoline (MW=100)	100

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: LCS
Lab ID#: 1710128-09A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/17 08:33 AM**	

Compound	%Recovery	Method Limits
Freon 12	113	70-130
Freon 114	101	70-130
Chloromethane	129	70-130
Vinyl Chloride	126	70-130
1,3-Butadiene	123	70-130
Bromomethane	118	70-130
Chloroethane	128	70-130
Freon 11	106	70-130
Ethanol	130	70-130
Freon 113	91	70-130
1,1-Dichloroethene	106	70-130
Acetone	110	70-130
2-Propanol	129	70-130
Carbon Disulfide	106	70-130
3-Chloropropene	108	70-130
Methylene Chloride	131 Q	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	97	70-130
Hexane	122	70-130
1,1-Dichloroethane	126	70-130
2-Butanone (Methyl Ethyl Ketone)	115	70-130
cis-1,2-Dichloroethene	124	70-130
Tetrahydrofuran	125	70-130
Chloroform	117	70-130
1,1,1-Trichloroethane	108	70-130
Cyclohexane	115	70-130
Carbon Tetrachloride	97	70-130
2,2,4-Trimethylpentane	127	70-130
Benzene	123	70-130
1,2-Dichloroethane	128	70-130
Heptane	122	70-130
Trichloroethene	110	70-130
1,2-Dichloropropane	134 Q	70-130
1,4-Dioxane	107	70-130
Bromodichloromethane	121	70-130
cis-1,3-Dichloropropene	110	70-130
4-Methyl-2-pentanone	122	70-130
Toluene	113	70-130
trans-1,3-Dichloropropene	123	70-130
1,1,2-Trichloroethane	118	70-130
Tetrachloroethene	99	70-130
2-Hexanone	128	70-130

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Client Sample ID: LCS
Lab ID#: 1710128-09A
EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/17 08:33 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	107	70-130
1,2-Dibromoethane (EDB)	111	70-130
Chlorobenzene	105	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	108	70-130
o-Xylene	111	70-130
Styrene	126	70-130
Bromoform	104	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	127	70-130
Propylbenzene	116	70-130
4-Ethyltoluene	109	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	126	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	107	70-130
Hexachlorobutadiene	108	70-130
Naphthalene	140	60-140
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: LCSD

Lab ID#: 1710128-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/17 09:00 AM**	

Compound	%Recovery	Method Limits
Freon 12	116	70-130
Freon 114	104	70-130
Chloromethane	133 Q	70-130
Vinyl Chloride	130	70-130
1,3-Butadiene	126	70-130
Bromomethane	119	70-130
Chloroethane	131 Q	70-130
Freon 11	107	70-130
Ethanol	133 Q	70-130
Freon 113	92	70-130
1,1-Dichloroethene	107	70-130
Acetone	110	70-130
2-Propanol	133 Q	70-130
Carbon Disulfide	108	70-130
3-Chloropropene	109	70-130
Methylene Chloride	132 Q	70-130
Methyl tert-butyl ether	112	70-130
trans-1,2-Dichloroethene	100	70-130
Hexane	123	70-130
1,1-Dichloroethane	131 Q	70-130
2-Butanone (Methyl Ethyl Ketone)	117	70-130
cis-1,2-Dichloroethene	126	70-130
Tetrahydrofuran	128	70-130
Chloroform	118	70-130
1,1,1-Trichloroethane	110	70-130
Cyclohexane	118	70-130
Carbon Tetrachloride	99	70-130
2,2,4-Trimethylpentane	130	70-130
Benzene	124	70-130
1,2-Dichloroethane	125	70-130
Heptane	122	70-130
Trichloroethene	110	70-130
1,2-Dichloropropane	135 Q	70-130
1,4-Dioxane	107	70-130
Bromodichloromethane	120	70-130
cis-1,3-Dichloropropene	111	70-130
4-Methyl-2-pentanone	123	70-130
Toluene	114	70-130
trans-1,3-Dichloropropene	123	70-130
1,1,2-Trichloroethane	118	70-130
Tetrachloroethene	99	70-130
2-Hexanone	128	70-130

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Client Sample ID: LCSD

Lab ID#: 1710128-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17100904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/17 09:00 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	107	70-130
1,2-Dibromoethane (EDB)	112	70-130
Chlorobenzene	106	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	109	70-130
o-Xylene	111	70-130
Styrene	128	70-130
Bromoform	103	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	128	70-130
Propylbenzene	117	70-130
4-Ethyltoluene	110	70-130
1,3,5-Trimethylbenzene	111	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	125	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	108	70-130
Hexachlorobutadiene	111	70-130
Naphthalene	143 Q	60-140
TPH ref. to Gasoline (MW=100)	Not Spiked	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	121	70-130
4-Bromofluorobenzene	92	70-130