



April 16, 2020

**County of Santa Cruz**

**Department of Public Works**

- **Kimberly Finley, Chief Real Property Agent**
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Update:    ***Data Submittal Package: Soil Vapor, Groundwater and Soil Sample Results***  
                  - **Expedited Site Characterization for an Imminent Multi-Use Development**

Site:        **County of Santa Cruz Redevelopment Parcels**  
                  **1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz (see *Location Map*, Figure 1)**

## **1.0 INTRODUCTION**

This data submittal package documents our recent 2020 field mobilization (completed April 1-2) and includes summary figures/tables, State-certified laboratory results, and field data (logs and photos). This sampling mobilization was completed in accordance with our February 17<sup>th</sup>, *Workplan*<sup>(1)</sup> (WHA, 2020a) and follow-up March 20<sup>th</sup>, *Update*<sup>(2)</sup>, which were submitted to the Central Coast Regional Water Quality Control Board. The 2 step approach included:

1. A preliminary screening mobilization that included the collection of 44 passive soil gas samples.
2. A follow-up round of soil, soil gas, and groundwater samples based on the results data obtained from the initial round of passive sample results.

This data package documents field work and laboratory testing of soil gas (active), groundwater and soil samples that were collected to target the approximate lateral limits and potential hot-spot locations of PCE (tetrachloroethylene) recently detected during completion of the initial shallow, passive soil vapor survey. Follow-up sampling (Step 2) was designed to evaluate impacts of an encroaching dry cleaning solvent release that appears to have originated from the adjoining property to the east (see *Site-Vicinity Aerial Map*, Figure 2). The results of the current round of testing further documents on-site conditions, confirms the source of the detected PCE is from the adjoining property, and provides data needed for the design of vapor barriers that will be needed for an imminent, multi-use development project planned.

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<sup>1</sup>: *Workplan link:* [Workplan \(Passive Soil Gas & GW\), February 17.](#)

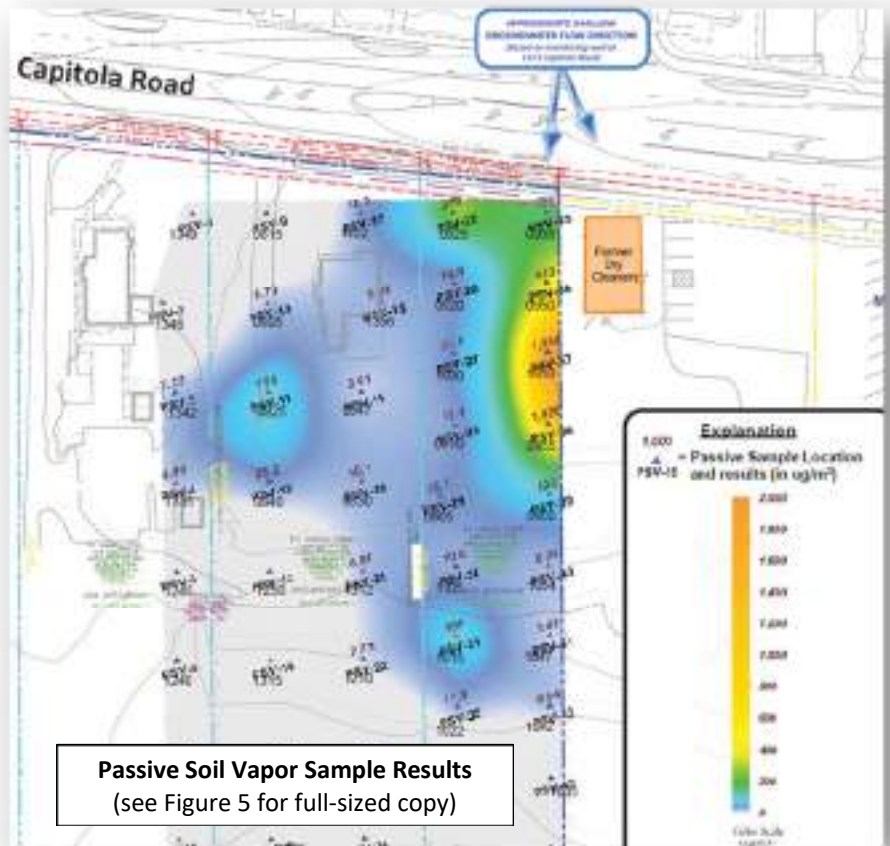
<sup>2</sup>: *Update Link:* [Passive Soil Gas Results & Planned Follow-up Sampling, March 20, 2020.](#)

## 2.0 BACKGROUND

A recent property screening assessment (RRM, 2020b) was completed in advance of a major redevelopment project that is about to break ground at the 3.7-acre subject site<sup>3</sup>. The property screening consisted of the collection of two (2), shallow soil vapor samples obtained along the northeastern property line, and the lab results contained detected elevated concentrations of the dry cleaning solvent PCE in (see Figure 2). A follow-up review of historic land use at, and in the vicinity of the site indicates the source of the detected property line contamination is from a former dry cleaning business that operated on the adjoining property to the east (i.e., Former Fairway Dry Cleaners, 1600 Capitola Road).

### 2.1 Passive Soil Gas Screening

On February 25, 2020, forty-four (44) passive soil gas samplers were installed in a grid pattern that extended outward from the property boundary adjoining the former Fairway Dry Cleaners. The passive samples were analyzed by the State-certified testing laboratory for a standard suite of chlorinated solvents by EPA Method 8260, including the dry cleaning solvent PCE and its volatile degradation compounds: Trichloroethene (TCE), cis-1,2-Dichloroethene (DCE), and Vinyl Chloride. The soil gas sample results have been tabulated (Table 1) along with agency-established, health-based threshold limits for commercial and residential land uses (i.e., the *Environmental Screening Levels, ESLs*) (RWQCB-SFB, 2019). The passive soil vapor results are shown on a plan view map (see Figure 5, and clip to the right). The passive sample results indicated the following:



<sup>3</sup>: Grants have been acquired to redevelop the underutilized vacant site into a mixed-use development consisting of a medical clinic (Santa Cruz Community Health Center) and dental office (Dientes), and 56 affordable apartments (residential). Development environmental planning permits are due in April and initial grading earthwork is scheduled for June 2020. The planned building layout is shown on Figure 3.

- The former Fairway Dry Cleaners located along the northeastern property boundary (see Figure 2) appears to be the source of the detected volatile solvents (i.e., **PCE**). The highest concentrations of PCE were detected along the property boundary (PSV-37 : **1,830 ug/m<sup>3</sup>**). The agency threshold limits for **commercial and residential land uses are 67 and 15 ug/m<sup>3</sup>**, respectively.
- The grid of shallow passive soil sampling data indicates that concentrations of all chlorinated solvents drop off (attenuate) as you move westward on the property. This preliminary screening suggested the extent of elevated PCE concentrations are somewhat limited in extent (see Figure 5).

### **3.0 CURRENT FIELD WORK AND LABORATORY RESULTS**

The follow-up, sampling mobilization (Step 2) was completed on April 1-2. Field documentation is contained in Appendix A, which includes drilling logs, photos, observation notes and sampling protocols. The groundwater, soil vapor and discrete soil samples were collected to evaluate the following:

#### **3.1 PCE Plume Encroachment (Figure 4, Table 3):**

Six (6) groundwater samples (GW-1 through GW-6) were collected to define the limits of dissolved solvent compounds (i.e., the PCE-impacted groundwater plume) that could potentially be an off-gassing source for elevated PCE concentrations detected in shallow, passive soil vapor samples.

Groundwater was encountered at depths of approximately 22 to 26 feet below ground surface and is assumed to flow in the south-southeast direction based on nearby monitoring network measurements. The solvent detections in groundwater are presented on Figure 4 and Table 3. In addition, Figure 4 presents an approximate footprint of the 100-ug/L concentration, dissolved PCE plume. Note: the agency threshold limit for a potential drinking water resource is 5 ug/L, and the ESL threshold for potential off-gassing of PCE-impacted groundwater to soil is a concentration of 0.64 ug/L (see Table 3).

Dissolved concentrations in groundwater (i.e., the PCE plume) acts like a tracer and can be used to find the source of a contaminant release. The shape of the plume (Figure 4) suggests that the source of the PCE release is the adjoining property to the east where a dry cleaner business formerly operated.

#### **3.2 Soil Vapor Encroachment (Figure 6, Table 2)**

Active soil gas samples were collected on April 1<sup>st</sup> to help calibrate the preliminary sample results obtained in February (i.e., the shallow, passive soil sample results). Subsurface soil vapor was acquired using laboratory-provided, vacuum sample cannisters that “actively” extracted soil vapors from targeted depths of 5-feet and 15-feet below ground surface (photos in Appendix A). Figure 6 presents a plan view of the site, sample locations, and analytical results. Figures 7a and 7b present separate plan view, isocontour maps of PCE concentrations detected at 5- and 15-foot sample depths, respectively.

Comparing the concentration changes in soil gas concentrations from across the site at the two (2) depths at (i.e., 5- and 15-foot) provides insight regarding the likely source of detected PCE contamination. The Isocontour maps provide the following information:

- 1) Shallow soil gas sample results (Figure 7a) suggest the former dry cleaner building, located just across the northeast property boundary is the source for elevated PCE concentrations detected in shallow (5-foot) vapor samples. And,
- 2) Elevated concentrations detected in the deeper, 15-foot soil gas samples (Figure 7b), suggest the encroaching, dissolved PCE plume (described in Section 3.1, above) is a significant, secondary source of PCE (i.e., off-gassing from the dissolved PCE plume). Note: much higher PCE concentrations were detected in a majority of the deeper sample locations (i.e., SV-3, -4, -5, and -6, Figure 6).

### **3.3 Soil Sampling Results (Table 4)**

Soil samples were collected from six (6) locations to evaluate whether there are any detections of solvent concentrations that would be indicative of an on-site source. A total of twenty-two (22) soil samples were laboratory analyzed and tested for volatile contaminant compounds including chlorinated solvents (i.e., PCE), and fuel constituents (i.e., Benzene). Samples for testing were acquired:

- At shallow depths (3-ft below ground surface) to determine if a near surface source of PCE was present at each soil core location (sample locations shown on Figure 4).
- Generally, at the interface of a lithological change from shallow clayey sand to a silty sand (4.5-to-6 feet below ground surface).
- At an intermediate depth (12-feet below ground surface). And
- At the groundwater interface.

Table 4 shows that some elevated PCE concentrations were detected in shallow soils collected at the property boundary immediately adjacent to the former dry cleaner building (i.e., sample locations SS3 and GW-5).

## **4.0 CONCLUSION AND RECOMMENDATION**

Elevated concentrations, primarily as the volatile solvent compound PCE, were detected in groundwater and soil vapor (shallow and deep detections). Collected data indicates the source of the contamination is from the adjoining property to the east where a dry cleaning business formerly operated in the existing building that currently houses a laundromat (1600 Capitola Road). Based on the results of this assessment:

- 1) This data package should be forwarded to the Regional Water Quality Control Board, Central Coast Region (RWQCB-CC) as the overseeing agency so the agency can notify the adjoining

property owner of site conditions and direct them to take responsibility for the characterization and cleanup of the PCE release.

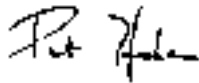
- 2) This data package will provide the basis for vapor barrier abatement that can be designed to be protective of future commercial and residential occupants. Based on soil vapor concentrations detected, this vapor barrier mitigation will be required for any residential or commercial development of the site and abatement design specifications should be forwarded to the RWQCB-CC for their review and approval.

**Limitations:** Our service consists of professional opinions and recommendations made in accordance with generally accepted geologic and engineering principles and practices. This warranty is in lieu of all others, either express or implied. The analysis and conclusions in this report are based on sampling and testing which are necessarily limited. Additional data from future work may lead to modification of the opinions expressed herein. If you have any questions regarding this report, or any aspect of this project, please contact us at (831) 722-3580.

Sincerely,

WEBER, HAYES AND ASSOCIATES

By



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Pat Hoban, PG  
Principal Geologist



- Figure 1: Location Map (topographic)
- Figure 2: Vicinity Map (aerial)
- Figure 3: Site Map with Sample Locations
- Figure 4: Groundwater Sample Results (w/ dissolved PCE plume)
- Figure 5: Passive Soil Vapor Survey Results
- Figure 6: Active Soil Vapor Results
- Figure 7: a) Isocontour Map of 5-ft Soil Vapor Detections  
b) Isocontour Map of 15-ft Soil Vapor Detections

- Table 1: Passive Soil Vapor Sample Results
- Table 2: Active Soil Vapor Sample Results
- Table 3: Groundwater Sample Results
- Table 4: Discrete Soil Sample Results

- Appendix A: Field Documentation (Observations, Logs, Photos & Methodology)
- Appendix B: State Certified Laboratory Reports (Soil, Soil Vapor & Groundwater Analysis)

## REFERENCES

California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB-SFB):

- (CRWQCB-SFB, 2019) guideline document: "Screening for Environmental Concerns at Sites with Contaminated Soil and *Groundwater*", Final January.
  - o [https://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.html](https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.html)

California Regional Water Quality Control Board, Central Coast Region (RWQCB-CC):

- (GeoTracker, SC-Development Properties): *GeoTracker (agency) archive of site-specific reports for the 1412, 1438, 1500 and 1514 Capitola Road properties, are at:*
  - o [https://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T10000014098](https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000014098)

Earth Systems report regarding (1412, 1438, 1500, and 1514 Capitola Road:

- (Earth Systems, 2018), *Revised Geotechnical Engineering Report*, October 24.

Remediation Risk Management, Inc. (RRM) reports regarding 1412, 1438, 1500, and 1514 Capitola Road:

- (RRM, 1994): *Remedial Action Summary Report for 1438 Capitola Road*, October 3.
- (RRM, 2020a): *Phase I Environmental Site Assessment (ESA)*, January 6.
  - o [https://documents.geotracker.waterboards.ca.gov/regulators/deliverable\\_documents/7879534065/2020.01.06%20Phase%20I%20ESA%20\(17th%20&%20Capitola%20Rd\)%20\(RRM\).pdf](https://documents.geotracker.waterboards.ca.gov/regulators/deliverable_documents/7879534065/2020.01.06%20Phase%20I%20ESA%20(17th%20&%20Capitola%20Rd)%20(RRM).pdf)
- (RRM, 2020b): *Limited Soil Vapor Investigation (Phase II)*, January 20.
  - o [https://documents.geotracker.waterboards.ca.gov/regulators/deliverable\\_documents/1517800450/2020-01-24\\_Phase%20I%20Vapor%20\(Draft\)%20\(RRM\).pdf](https://documents.geotracker.waterboards.ca.gov/regulators/deliverable_documents/1517800450/2020-01-24_Phase%20I%20Vapor%20(Draft)%20(RRM).pdf)

Reports summarizing the Live Oak Texaco fuel leak case (1990-2012) at 1671 Capitola Road:

- (AES, 2012): A+ Environmental Solutions report: *Groundwater Monitoring Report & Request for Case Closure*, May 18.
- (Clearwater Group, 2011): *Site Conceptual Model (SCM) Report*, June
- (GeoTracker, Texaco): *Geotracker Archive of site-specific reports for this fuel leak site are at:*
  - o [https://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0608700286](https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608700286)

Weber, Hayes and Associates (WHA) reports for 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz:

- (WHA, 2020a): *Workplan – Expedited Site Characterization for an Imminent Multi-use Redevelopment*, Feb 17.
  - o <https://drive.google.com/open?id=182qjxIPfFHPRDrzmWrDbf3YC3IVRQFEo>
- (WHA, 2020b): *Update: Passive Soil Gas Sample Results & Planned Follow-up Sampling*, Mar-20.
  - o [https://documents.geotracker.waterboards.ca.gov/regulators/deliverable\\_documents/9783261954/2020-03-20%20Update%20to%20Workplan.pdf](https://documents.geotracker.waterboards.ca.gov/regulators/deliverable_documents/9783261954/2020-03-20%20Update%20to%20Workplan.pdf)

**Figures**

**Figure 1: Location Map (topographic)**

**Figure 2: Vicinity Map (aerial)**

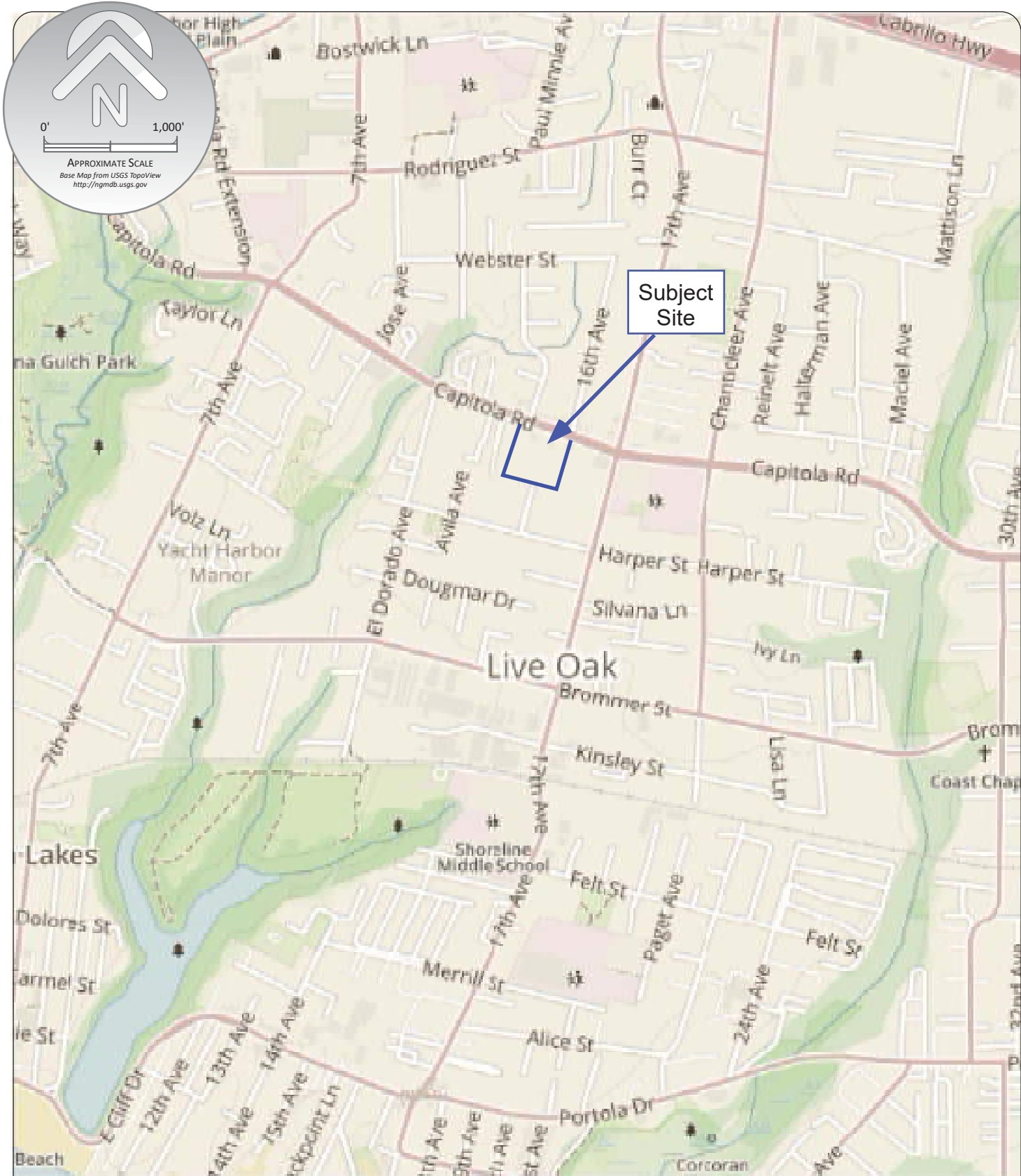
**Figure 3: Site Map**

**Figure 4: Groundwater Sample Results (w/ dissolved PCE plume)**

**Figure 5: Passive Soil Vapor Survey Results**

**Figure 6: Active Soil Vapor Results**

**Figure 7: a) Isocontour Map of 5-ft Soil Vapor Detections  
b) Isocontour Map of 15-ft Soil Vapor Detections**



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## Location Map Supplemental Property Screening Assessment

Site: County of Santa Cruz Redevelopment Parcels  
 Address: 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz

Date: April 2020

Revisions/Notes:

**FIGURE**  
**1**  
 Project  
 2t009





**Vicinity Map**  
**Supplemental Property Screening Assessment**

**FIGURE**  
**2**  
 Project  
 21009

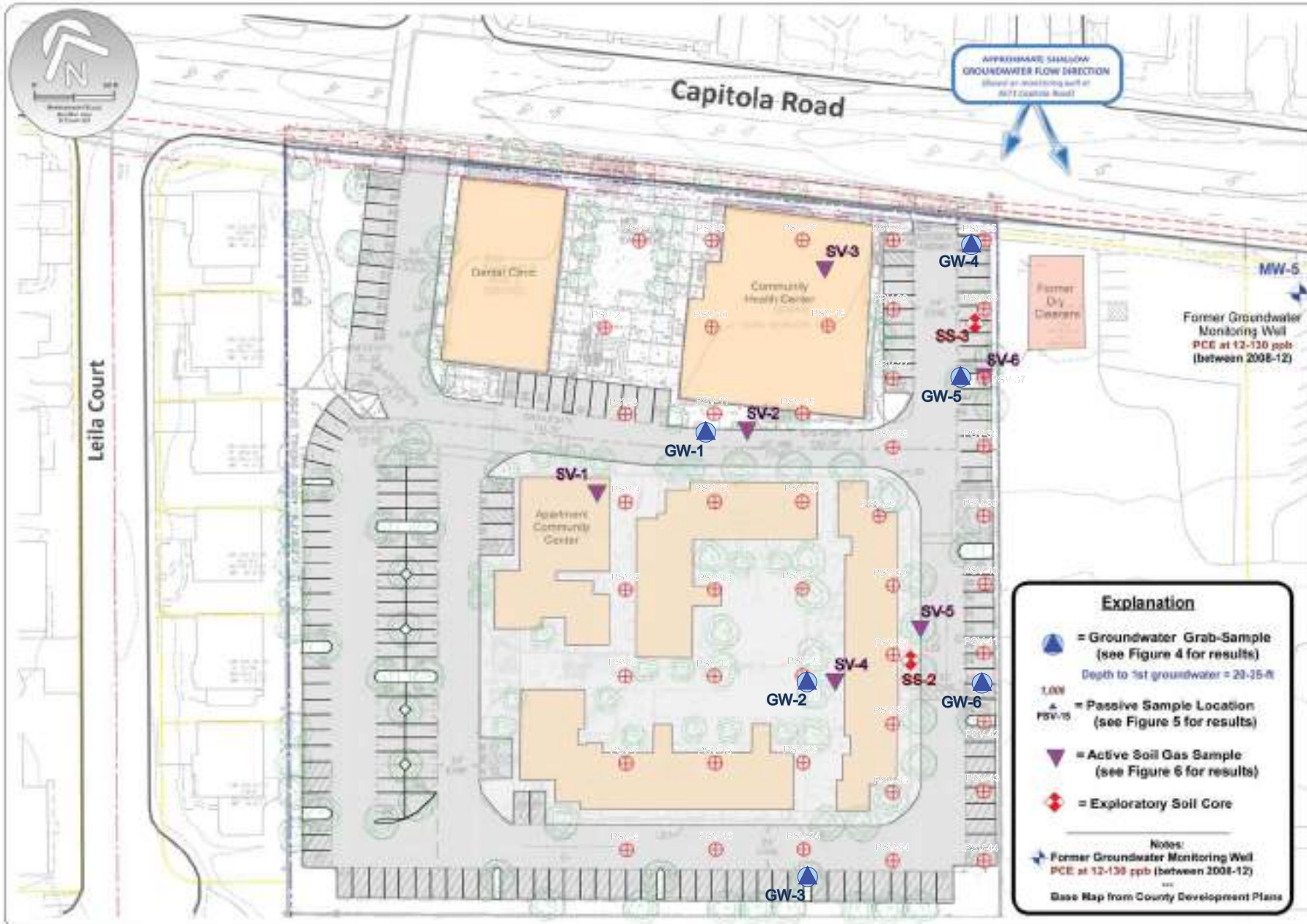
Site: County of Santa Cruz Redevelopment Parcels  
 Address: 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz

Date: April 2020

REVISIONS/NOTES:



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**FIGURE 3**  
Project 2009

**Site Map**  
**Supplemental Property Screening Assessment**

Site: County of Santa Cruz Redevelopment Parcels  
Address: 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz

Date: April 2020

Revises/Name:

**Explanation**

- = Groundwater Grab-Sample (see Figure 4 for results)  
Depth to 1st groundwater = 20-35 ft
- = Passive Sample Location (see Figure 5 for results)
- = Active Soil Gas Sample (see Figure 6 for results)
- = Exploratory Soil Core

**Notes:**

- Former Groundwater Monitoring Well  
PCE at 12-130 ppb (between 2008-12)

Base Map from County Development Plans



**WHA**  
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Capitola Road

APPROXIMATE SHALLOW  
UNDERGROUND FLOW DIRECTION  
(Based on monitoring well 1 at  
1877 Capitola Road)

**GW-1**

Depth to Groundwater (ft)	PCE	TCE	Benzene	Toluene
26	<b>4.64</b>	<0.39	<b>0.354</b>	<b>0.614</b>

See Tables for Additional Details

**GW-4**

Depth to Groundwater (ft)	PCE	TCE	Benzene	Toluene
24.5	<b>9.54</b>	<0.39	<0.33	<0.41

See Tables for Additional Details

**GW-5**

Depth to Groundwater (ft)	PCE	TCE	Benzene	Toluene
24.5	<b>16.9</b>	<0.39	<0.33	<0.41

See Tables for Additional Details

**GW-6**

Depth to Groundwater (ft)	PCE	TCE	Benzene	Toluene
22	<b>192</b>	<0.39	<0.33	<0.41

See Tables for Additional Details

**GW-2**

Depth to Groundwater (ft)	PCE	TCE	Benzene	Toluene
22	<b>161</b>	<0.39	<0.33	<0.41

See Tables for Additional Details

**GW-3**

Depth to Groundwater (ft)	PCE	TCE	Benzene	Toluene
21	<b>136</b>	<0.39	<0.33	<0.41

See Tables for Additional Details

Former Dry Cleaners

**Dissolved PCE Plume  
in Groundwater**

100 ug/L

**Explanation**

Groundwater results in ug/L (parts per billion)

- = Groundwater Grab-Sample  
Depth to 1st groundwater = 21 ft logs
- = Dissolved PCE > 100 ug/L

**Maximum Contaminant Threshold Limits**  
(for a drinking water resource)

PCE = 5 ug/L  
TCE = 5 ug/L  
Benzene = 1 ug/L  
Toluene = 150 ug/L  
(see Table 3 for additional details)

Red Highlight indicates a Maximum Contaminant Threshold Exceedance

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- = Active Soil Gas Sample (see Figure 9 for results)
- = Exploratory Soil Core

**Groundwater Results  
Supplemental Property Screening Assessment**

**FIGURE  
4**  
Project  
20000

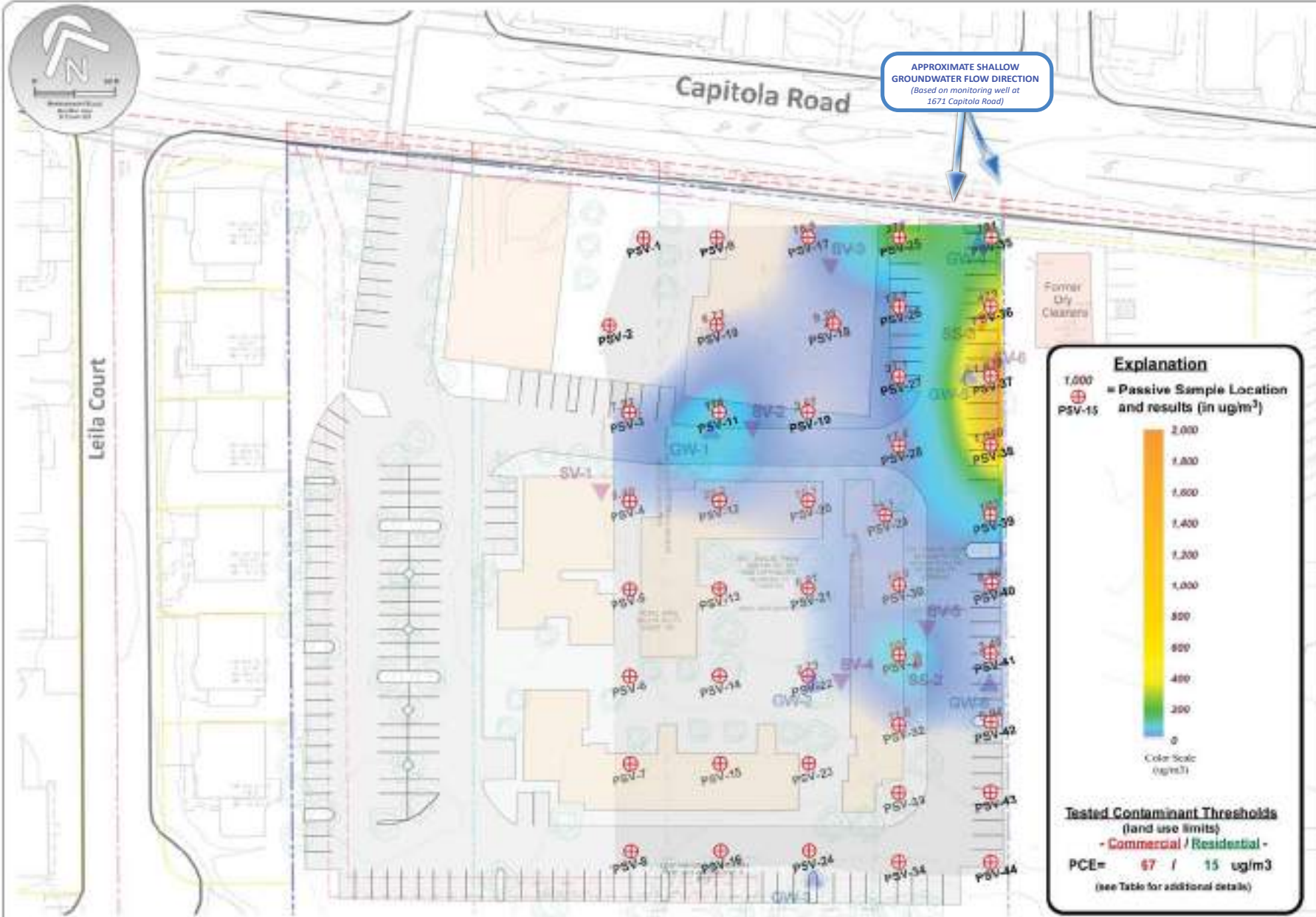
Site: County of Santa Cruz Redevelopment Parcels  
Address: 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz

Date: April 2020

Revisions/Notes:



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### Passive Vapor Results Supplemental Property Screening Assessment

Site: County of Santa Cruz Redevelopment Parcels  
Address: 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz

Date: April 2020

Revision/Notes:



**WHA**  
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**FIGURE 5**  
Project 24009



**Explanation**  
All results in ug/m<sup>3</sup>

▼ = Active Soil Gas Sample

**Contaminant Threshold Limits**  
(land use limits)  
- Commercial / Residential -

PCE = 67 / 15 ug/m<sup>3</sup>  
TCE = 100 / 15 ug/m<sup>3</sup>  
Toluene = 44,000 / 1,000 ug/m<sup>3</sup>  
Benzene = 14 / 3.2 ug/m<sup>3</sup>  
E. Ben = 160 / 37 ug/m<sup>3</sup>  
(E. Ben = Ethylbenzene)

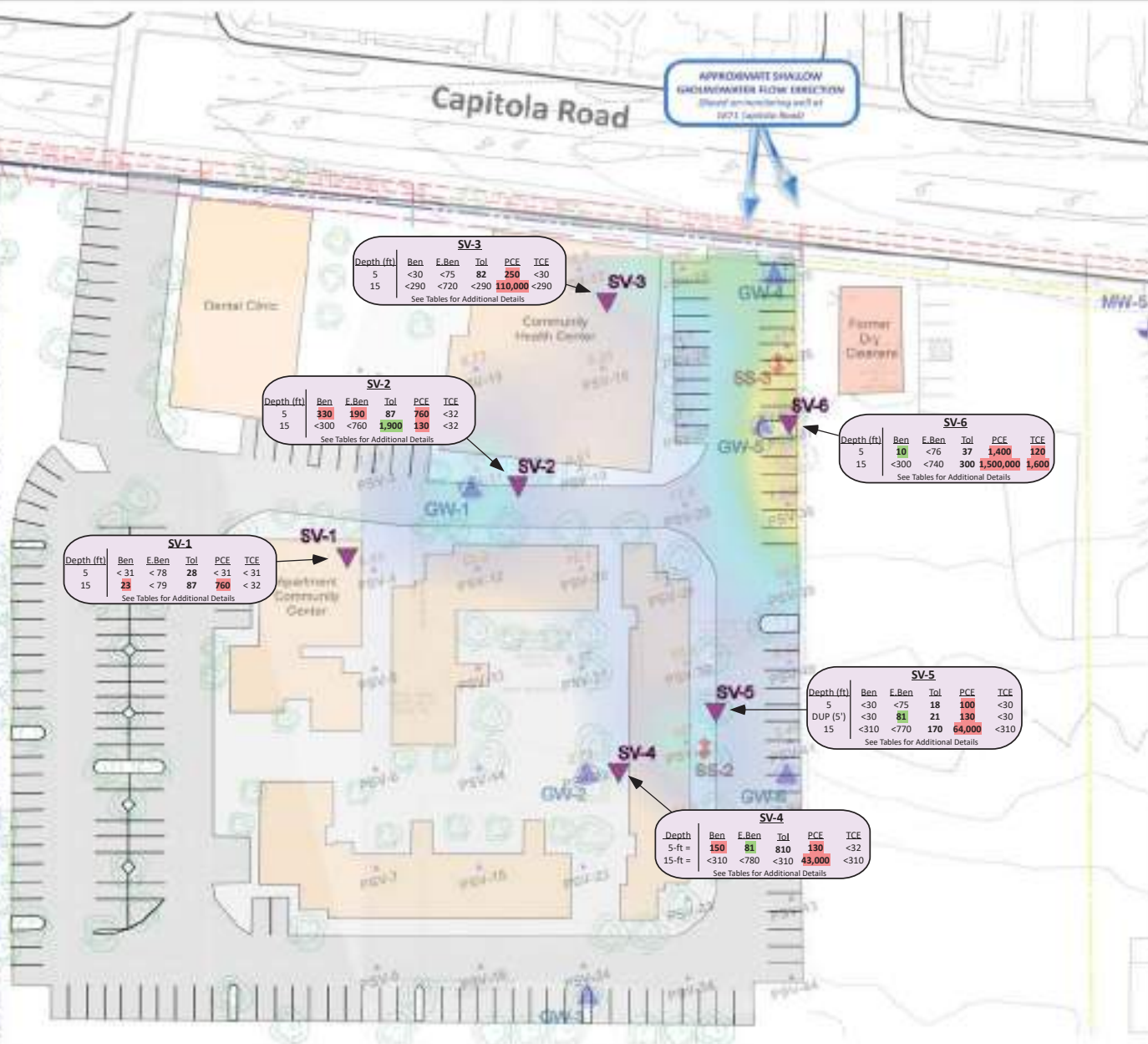
(see Table 4 for additional details)

**Note:**  
Red highlight indicates a Commercial Exceedance  
Green highlight indicates a Residential Exceedance

○ = Passive Sample Location and results (in ug/m<sup>3</sup>)  
See Figure 4 for Results

▲ = Proposed Groundwater Grab-Sample Location  
See Figure 4 for Results

◆ = Proposed Exploratory Soil Core/Sample Location



**SV-3**

Depth (ft)	Ben	E. Ben	Tol	PCE	TCE
5	<30	<75	82	250	<30
15	<290	<720	<290	110,000	<290

See Tables for Additional Details

**SV-2**

Depth (ft)	Ben	E. Ben	Tol	PCE	TCE
5	330	190	87	760	<32
15	<300	<760	1,900	130	<32

See Tables for Additional Details

**SV-1**

Depth (ft)	Ben	E. Ben	Tol	PCE	TCE
5	<31	<78	28	<31	<31
15	23	<79	87	760	<32

See Tables for Additional Details

**SV-6**

Depth (ft)	Ben	E. Ben	Tol	PCE	TCE
5	10	<76	37	1,400	120
15	<300	<740	300	1,500,000	1,600

See Tables for Additional Details

**SV-5**

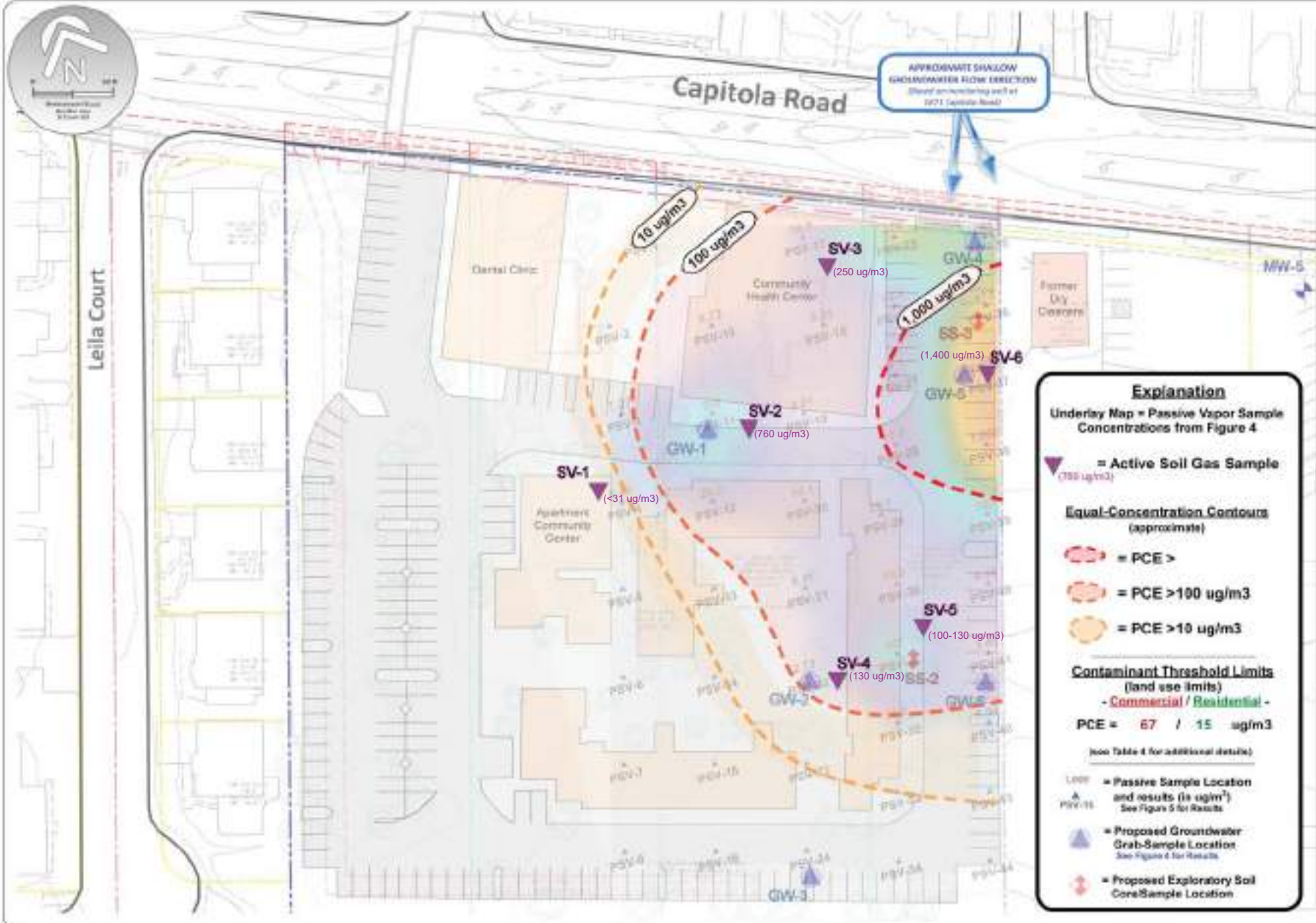
Depth (ft)	Ben	E. Ben	Tol	PCE	TCE
5	<30	<75	18	100	<30
DUP (5')	<30	81	21	130	<30
15	<310	<770	170	64,000	<310

See Tables for Additional Details

**SV-4**

Depth	Ben	E. Ben	Tol	PCE	TCE
5-ft =	150	81	810	130	<32
15-ft =	<310	<780	<310	43,000	<310

See Tables for Additional Details



**Isocontour Map - PCE at 5-ft  
Supplemental Property Screening Assessment**

**FIGURE  
7A**  
Project  
2/0009

Site: County of Santa Cruz Redevelopment Parcels  
Address: 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz

Revisions/Notes:

Date: April 2020

**Explanation**

Underlay Map = Passive Vapor Sample Concentrations from Figure 4

- = Active Soil Gas Sample (750 ug/m3)

**Equal-Concentration Contours (approximate)**

- = PCE > 1,000 ug/m3
- = PCE > 100 ug/m3
- = PCE > 10 ug/m3

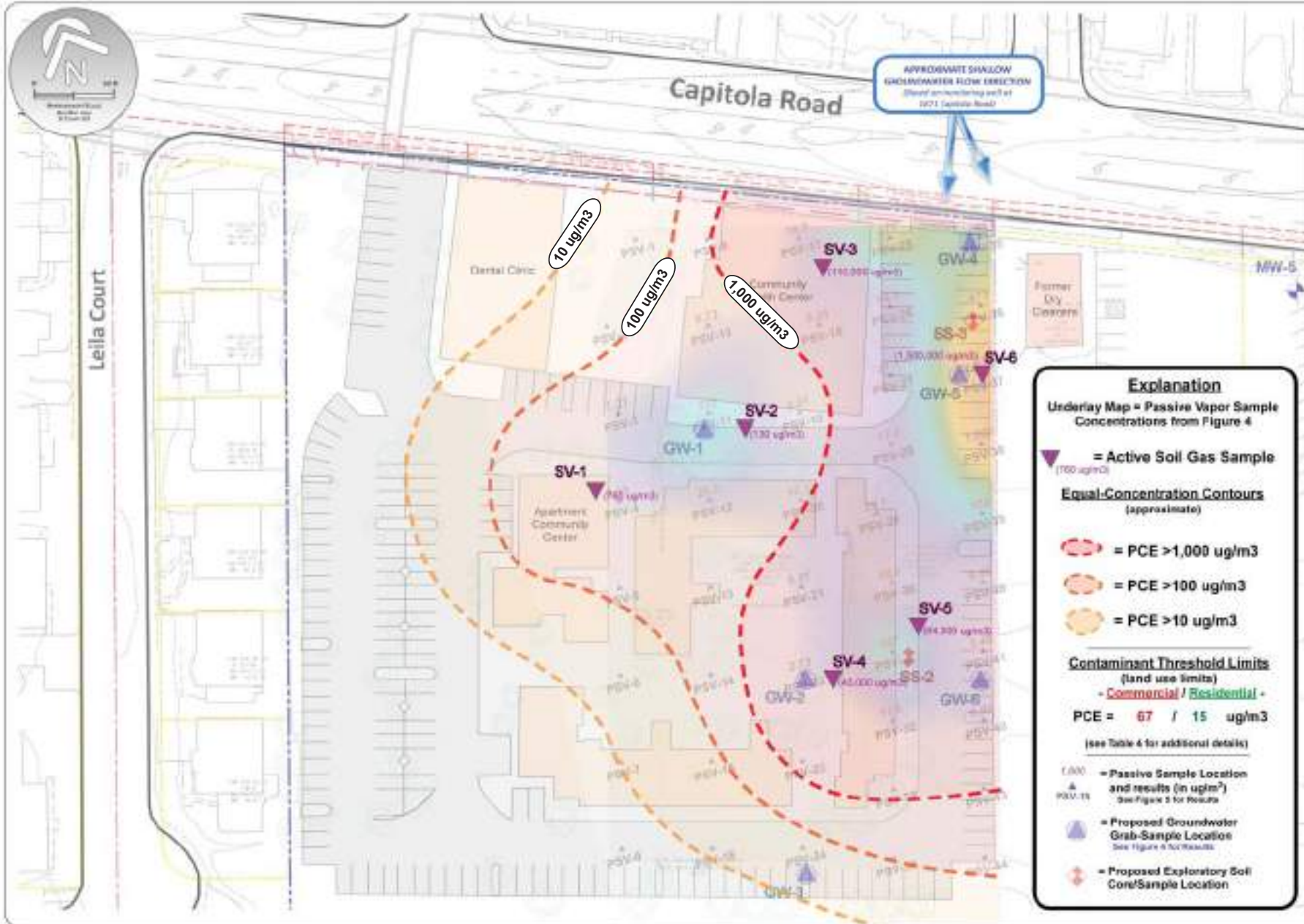
**Contaminant Threshold Limits (land use limits)**  
- Commercial / Residential -  
**PCE = 67 / 15 ug/m3**

(See Table 4 for additional details)

- = Passive Sample Location and results (in ug/m<sup>3</sup>) See Figure 5 for Results
- = Proposed Groundwater Grab-Sample Location See Figure 4 for Results
- = Proposed Exploratory Soil Core-Sample Location



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**Isocontour Map - PCE at 15-ft  
Supplemental Property Screening Assessment**

**FIGURE  
7B**  
Project  
2-0000

Site: County of Santa Cruz Redevelopment Parcels  
Address: 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz

Date: April 2020 Revisions/Notes:

**Explanation**

Underlay Map = Passive Vapor Sample Concentrations from Figure 4

- = Active Soil Gas Sample (100 ug/m3)
- Equal-Concentration Contours (approximate)**
- = PCE >1,000 ug/m3
- = PCE >100 ug/m3
- = PCE >10 ug/m3

**Contaminant Threshold Limits (land use limits)**

- Commercial / Residential -

**PCE = 67 / 15 ug/m3**

(see Table 4 for additional details)

- = Passive Sample Location and results (in ug/m<sup>3</sup>) See Figure 5 for Results
- = Proposed Groundwater Grab-Sample Location See Figure 6 for Results
- = Proposed Exploratory Soil Core/Sample Location

**WHA**  
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**Tables**

**Table 1: Passive Soil Vapor Sample Results**

**Table 2: Active Soil Vapor Sample Results**

**Table 3: Groundwater Sample Results**

**Table 4: Discrete Soil Sample Results**



Table 1  
**Passive Soil Gas Sampling**  
**Volatile Dry Cleaning Solvent Compound Testing Results**  
 Seven Day Sampling Event (February 25-March 3, 2020)  
 1412-1514 Capitola Road  
 Santa Cruz

Sample Information		Laboratory Analytical Results <i>All soil vapor results are in ug/m<sup>3</sup></i>								
Sample ID	Sample Depth <i>(feet below ground surface)</i>	PCE <i>(Tetrachloroethene)</i>	TCE <i>(Trichloroethene)</i>	Dichloroethene (DCE)		Vinyl Chloride	Benzene	Toluene	Ethylbenzene	Xylenes
				cis-1,2-DCE	trans-1,2-DCE					
PSV-1	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	4.76	<6.05	<2.99	<2.88
PSV-2	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	2.56 J	26.6	<2.99	<2.88
PSV-3	3 ft	7.23	<2.92	<1.84	<2.25	<1.29	6.74	17.3	<2.99	<2.88
PSV-4	3 ft	6.49	<2.92	<1.84	<2.25	<1.29	3.62 J	<6.05	<2.99	<2.88
PSV-5	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	4.58 J	<6.05	<2.99	8.38
PSV-6	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	4.31 J	<6.05	<2.99	12.68
PSV-7	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	3.08 J	<6.05	<2.99	<2.88
PSV-8	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	2.98 J	<6.05	<2.99	<2.88
PSV-9	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-10	3 ft	6.73	<2.92	<1.84	<2.25	<1.29	3.37 J	<6.05	<2.99	<2.88
PSV-11	3 ft	118	5.58	<1.84	<2.25	<1.29	7.26	10.9	<2.99	<2.88
PSV-12	3 ft	25.2	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-13	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-14	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	<1.84	11	<2.99	<2.88
PSV-15	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-16	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	3.61 J	<6.05	<2.99	<2.88
PSV-17	3 ft	18.9	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-18	3 ft	9.28	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-19	3 ft	3.61	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-20	3 ft	10.1	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-20-dup	3 ft	10.8	<2.92	<1.84	<2.25	<1.29	1.91 J	<6.05	<2.99	<2.88
PSV-21	3 ft	6.91	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-22	3 ft	2.73	<2.92	<1.84	<2.25	<1.29	1.90 J	<6.05	<2.99	<2.88
PSV-23	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	3.16 J	<6.05	<2.99	<2.88
PSV-24	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	3.54 J	<6.05	<2.99	<2.88
PSV-25	3 ft	378	19.7	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-26	3 ft	18.8	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-27	3 ft	31.1	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-28	3 ft	17.4	<2.92	<1.84	<2.25	<1.29	1.95 J	<6.05	<2.99	<2.88
<b>California DTSC-Modified Soil Gas Levels</b> <sup>(2)</sup> <i>Residential / Commercial Land Use</i>		15 / 67	16 / 100	280 / 1,200	2,800 / 12,000	0.32 / 5.2	3.2 / 14	10,333 / 43,333	N E	N E
<b>Environmental Screening Levels</b> <sup>(1)</sup> <i>Residential / Commercial</i>		15 / 67	16 / 100	280 / 1,200	2,800 / 12,000	0.32 / 5.2	3.2 / 14	10,000 / 44,000	37 / 160	3,500 / 15,000



Table 1  
**Passive Soil Gas Sampling**  
**Volatile Dry Cleaning Solvent Compound Testing Results**  
 Seven Day Sampling Event (February 25-March 3, 2020)  
 1412-1514 Capitola Road  
 Santa Cruz

Sample Information		Laboratory Analytical Results <i>All soil vapor results are in ug/m<sup>3</sup></i>								
Sample ID	Sample Depth (feet below ground surface)	PCE (Tetrachloroethene)	TCE (Trichloroethene)	Dichloroethene (DCE)		Vinyl Chloride	Benzene	Toluene	Ethylbenzene	Xylenes
				cis-1,2-DCE	trans-1,2-DCE					
PSV-29	3 ft	22.1	<2.92	<1.84	<2.25	<1.29	<1.84	8.86	<2.99	<2.88
PSV-30	3 ft	10.6	<2.92	<1.84	<2.25	<1.29	4.26 J	<6.05	<2.99	<2.88
PSV-31	3 ft	107	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-32	3 ft	11.8	<2.92	<1.84	<2.25	<1.29	3.73 J	42.8	<2.99	<2.88
PSV-33	3 ft	<2.42	<2.92	<1.84	<2.26	<1.29	2.03 J	<6.05	<2.99	<2.88
PSV-34	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	<1.84	7.94	<2.99	<2.88
PSV-35	3 ft	181	<2.92	<1.84	<2.25	<1.29	2.28 J	<6.05	<2.99	<2.88
PSV-35-dup	3 ft	240	5.26	<1.84	<2.25	<1.29	2.56 J	<6.05	<2.99	<2.88
PSV-36	3 ft	473	9.74	<1.84	<2.25	<1.29	1.98 J	<6.05	<2.99	<2.88
PSV-37	3 ft	1,830	16.1	2.38	<2.25	<1.29	<1.84	24.5	<2.99	<2.88
PSV-38	3 ft	1,020	18.5	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-39	3 ft	103	<2.92	<1.84	<2.25	<1.29	3.16 J	<6.05	<2.99	<2.88
PSV-39-dup	3 ft	80.7	<2.92	<1.84	<2.25	<1.29	2.95 J	<6.05	<2.99	<2.88
PSV-40	3 ft	6.96	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-41	3 ft	3.48	<2.92	<1.84	<2.25	<1.29	2.75 J	11.6	<2.99	<2.88
PSV-42	3 ft	6.94	<2.92	<1.84	<2.25	<1.29	2.10 J	<6.05	<2.99	<2.88
PSV-43	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-44	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
PSV-44-dup	3 ft	<2.42	<2.92	<1.84	<2.25	<1.29	<1.84	<6.05	<2.99	<2.88
<b>California DTSC-Modified Soil Gas Levels <sup>(2)</sup></b> Residential / Commercial Land Use		15 / 67	16 / 100	280 / 1,200	2,800 / 12,000	0.32 / 5.2	3.2 / 14	10,333 / 43,333	N E	N E
<b>Environmental Screening Levels <sup>(1)</sup></b> Residential / Commercial		15 / 67	16 / 100	280 / 1,200	2,800 / 12,000	0.32 / 5.2	3.2 / 14	10,000 / 44,000	37 / 160	3,500 / 15,000

**Notes:**

1 = CA DTSC Modified Air Screening Levels: Human health risk thresholds established by the California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note Number 3, Table 3, April 2019.  
 - < <https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-June-2018.pdf> >

2 = Environmental Screening Levels (ESLs): Human health risk thresholds established by the San Francisco Bay Regional Water Quality Control Board. Source: the User's Guide: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final, Jan 2019)  
 - < [https://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/ESL/ESLs.html](https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/ESL/ESLs.html) >

- Note: The ESLs for all media (soil, soil vapor, groundwater) were generated to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted based on chemical transport and their effect on receptors (i.e. human health, groundwater resources, ecological). The ESLs listed in this summary table are the most conservative, "Tier 1 ESLs", and are based on shallow soils (<3m), groundwater is a current or potential source of drinking water.

**BOLD** = Indicates the compound was detected.

< X = Constituent not detected above laboratory's Method Detection Limit (MDL), X.

**BOLD** = Analytical result exceeds Commercial US EPA RSL, CA DTSC or ESL threshold.

**BOLD** = Analytical result exceeds Residential US EPA RSL, CA DTSC or ESL threshold.

PCE = Tetrachloroethene

TCE = Trichloroethene

DCE = Dichloroethene

Note: TCE and DCE are degradation (daughter products) of PCE

NE = Not Established

Table 2  
**Active Soil Vapor Analytical Results**  
**Volatile Organic Compounds**  
 1412-1514 Capitola Road

All soil vapor results are in micrograms per meter cubed (ug/m<sup>3</sup>)

Sample Information			Volatile Organic Compounds (VOCs) <small>(by Laboratory Analysis by EPA Method TO-15)</small>									Field Leak Check Monitoring (Isopropyl Alcohol)			
			PCE (Tetrachloroethene)	TCE (Trichloroethene)	Dichloroethene (DCE)		Vinyl chloride	Benzene	Toluene	Ethylbenzene	Xylenes	Other VOCs	Field Shroud Concentration (avg., in ppm)	Laboratory Results (in ug/m <sup>3</sup> )	Calculated Leakage (percent, %)
cis-1,2-DCE	trans-1,2-DCE														
Sample Date	Sample ID	Depth (feet below ground surface)													
April 1st, 2020	SV-1	5 ft	<5.3 <sup>^</sup>	<5.9 <sup>^</sup>	<31	<31	<4.5 <sup>^</sup> *	<2.5 <sup>^</sup>	28	<5.6 <sup>^</sup>	<160	Acetone = 91 Propylene = 2,000' Carbon Disulfide = 11 n-Heptane = 19 Hexane = 48 All Other VOC's =ND	133.33	< 7.3	0%
		15 ft	760	<6 <sup>^</sup>	<32	<32	<4.6 <sup>^</sup> *	23	87	<5.7 <sup>^</sup>	42	Acetone = 36 Cyclohexane = 95 n-Heptane = 32 Hexane = 61 All Other VOC's =ND	100	< 7.4	0%
	SV-2	5 ft	130	<6.1 <sup>^</sup>	<32	<32	<4.6 <sup>^</sup> *	330	1,900	190	870	Acetone = 62 Propylene = 360 Cyclohexane = 99 Ethanol = 810 n-Heptane = 490 Hexane = 150 1-Ethyl-4-methylbenzene = 72 1,2,4-Trimethylbenzene = 71 1,3,5-Trimethylbenzene = 34 All Other VOC's =ND	100	< 7.5	0%
		15 ft	38,000	<57 <sup>^</sup> *	<35 <sup>^</sup>	<300	<44 <sup>^</sup> *	<24 <sup>^</sup> *	170	<54 <sup>^</sup> *	<1,500	All Other VOC's = ND	88.33	< 71	3%
	SV-3	5 ft	250	<5.7 <sup>^</sup>	21	<30	<4.4 <sup>^</sup> *	<2.4 <sup>^</sup>	82	<5.4 <sup>^</sup>	<150	Acetone = 120 Propylene = 400 carbon disulfide = 21 n-Heptane = 15 All Other VOC's =ND	125	< 7	0%
		15 ft	110,000	<55 <sup>^</sup> *	<33 <sup>^</sup>	<290	<42 <sup>^</sup> *	<23 <sup>^</sup> *	<290	<52 <sup>^</sup> *	<1,400	Propylene =150 Hexane = 470 All Other VOC's =ND	95	< 68	3%
	SV-4	5 ft	130	<6 <sup>^</sup>	<32	<32	<4.6 <sup>^</sup> *	150	810	81	370	Acetone = 150 Propylene = 2,800 Ethanol = 63 1-Ethyl-4-methylbenzene = 28 n-Heptane = 180 Hexane = 79 1,2,4-Triethylbenzene = 26 All Other VOC's =ND	136.66	< 7.5	0%
		15 ft	43,000	<60 <sup>^</sup> *	<36 <sup>^</sup>	<310	<46 <sup>^</sup> *	<25 <sup>^</sup> *	<310	<57 <sup>^</sup> *	<1,600	Hexane = 770 All Other VOC's =ND	175	< 74	2%
	SV-5	5-ft	100	<5.7 <sup>^</sup>	<30	<30	<4.4 <sup>^</sup> *	<2.4 <sup>^</sup>	18	<5.4 <sup>^</sup>	<150	Propylene = 230 n-Heptane = 16 Hexane = 46 All Other VOC's =ND	68.3	< 30	2%
		Duplicate A (5-ft)	130	<5.7 <sup>^</sup>	<30	<30	<4.4 <sup>^</sup> *	<2.4 <sup>^</sup>	21	81	310	Acetone = 79 Propylene = 270 1,2,4-Trimethylbenzene = 210 Ethanol = 14 1-Ethyl-4-methylbenzene = 170 n-Heptane = 18 Hexane = 53 1,2,4-Trimethylbenzene = 210 1,3,5-Trimethylbenzene = 56 All Other VOC's =ND	68.3	220	13%
		15 ft	64,000	<59 <sup>^</sup> *	<35 <sup>^</sup>	<310	<45 <sup>^</sup> *	<25 <sup>^</sup> *	170	<55 <sup>^</sup> *	<1,500	Hexane = 910 All Other VOC's =ND	53.33	< 72	5%
	SV-6	5 ft	1,400	120	170	<31	<4.4 <sup>^</sup> *	10	37	<5.5 <sup>^</sup>	<150	Propylene = 220 Hexane = 41 All Other VOC's =ND	162.5	< 7.2	0%
15 ft		1,500,000	1,600	<34 <sup>^</sup>	<300	<43 <sup>^</sup> *	<24 <sup>^</sup> *	300	<53 <sup>^</sup> *	<1,500	All Other VOC's = ND	212.5	< 70	1%	
Environmental Screening Levels <sup>(1)</sup> Residential / Commercial Land Use <small>(ATTENUATION FACTOR: 0.03)</small>			15 / 67	16 / 100	280 / 1,200	2,800 / 12,000	0.32 / 5.2	3.2 / 14	1,000 / 44,000	37 / 160	3,500 / 15,000	Acetone = 1,100,000 / 4,500,000 All Other Detected VOC's = NE			
California DTSC-Modified Soil Gas Levels <sup>(2)</sup> Residential / Commercial Land Use <small>(ATTENUATION FACTOR: 0.03)</small>			15 / 67	16 / 100	280 / 1,200	2,800 / 12,000	0.32 / 5.2	3.2 / 14	1,033 / 43,333	NE	NE	All Other Detected VOC's = NE			

**Notes**

**1 = Environmental Screening Levels (ESLs):** From *User's Guide: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, set by the San Francisco Bay Regional Water Quality Control Board (Interim Final, Jan 2019) <[https://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/ESL/ESLs.html](https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/ESL/ESLs.html)>. The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted. The ESLs used in this table were obtained from the above referenced document, "Tier 1 ESLs", based on shallow soils (<3m), groundwater is a current or potential source of drinking water.

**2 = CA DTSC Modified Air Screening Levels:** From the California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note Number 3, Table 3, April 2019. <<https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-June-2018.pdf>>

< X = Constituent not detected above laboratory's Practical Quantitation Limit (PQL), X.

<sup>^</sup> = Laboratory Method Detection Limit (MDL) was used due to the PQL being higher than an established screening level

**BOLD** = Compound detected.

**J** = Laboratory note: Estimated value between the laboratory method detection limit and PQL

ND = Not Detected

-- = Sample was not analyzed for this constituent

NE = Not Established

< X <sup>^</sup> =	Constituent was non-detected however the Method Detection Limit (MDL) was above the ESL or DTSC threshold.
<b>BOLD</b> =	Analytical result exceeds Commercial US EPA RSL, CA DTSC or ESL threshold.
<b>BOLD</b> =	Analytical result exceeds Residential US EPA RSL, CA DTSC or ESL threshold.



**Table 3**  
**Groundwater Analytical Results**  
**Volatile Organic Compounds (VOCs)**

1412-1514 Capitola Road, Santa Cruz

All water results are in micrograms per liter (ug/L)

Sample Information			Volatile Organic Compounds <i>by EPA Method 8260B</i>						
Location ID	Depth To Water (in feet, below ground surface)	Screen Interval (in feet, below ground surface)	Solvents		Fuel Constituents				Other VOC's
			PCE	TCE	Benzene	Toluene	Ethyl-benzene	Xylenes	
GW-1	26-ft	23-28 ft	4.64	<1.00	0.354 J	0.614 J	<1.00	<3.00	Acetone = 14 J Chloromethane = 0.428 J All Other VOC'S = ND
GW-2	22-ft	19-24 ft	161	<1.00	<1.00	<1.00	<1.00	<3.00	Di-Isopropyl Ether = 0.417 J All Other VOC's = ND
GW-3	21-ft	19-24 ft	136	<1.00	<1.00	<1.00	<1.00	<3.00	All Other VOC's = ND
GW-4	24.5-ft	23-28 ft	9.54	<1.00	<1.00	<1.00	<1.00	<3.00	All Other VOC's = ND
GW-5	24.5-ft	27-32 ft	16.9	<1.00	<1.00	<1.00	<1.00	<3.00	All Other VOC's = ND
GW-6	22-ft	23-28 ft	192	0.403 J	<1.00	<1.00	<1.00	<3.00	All Other VOC's = ND
<b>Laboratory Reported Detection Limit (RDL)</b>			1.0	1.0	1.0	1.0	1.0	3.0	Varies
<b>Maximum Contamination Limit (MCL) <sup>(1)</sup></b> (+ Human Health ESL if no MCL established)			5	5	1	150	300	1,750	Acetone = 14,000 Chloromethane = 190
<b>Environmental Screening Levels (ESLs) <sup>(2)</sup></b>			0.64 (Vapor Intrusion)	1.2 (Vapor Intrusion)	0.42 (vapor intrusion)	40 (odor nuisance)	3.5 (vapor intrusion)	20 (odor nuisance)	Acetone = 1,500 Chloromethane = 190

**Notes**

1 = **Water Quality Goals (WQGs)**: The listed **Water Quality Goals** listed are based on **Maximum Contaminant Levels (MCLs)** - see note below. However, if a MCL does not exist for a constituent, the listed WQG is based on **Environmental Screening Levels (ESLs)** - constituents with a WQG based on an ESLs are identified with an asterisk ("\*"), see note below.

**Maximum Contaminant Levels (MCLs)**: < [https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/Chemicalcontaminants.html](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Chemicalcontaminants.html) >. **MCL's** are drinking water standards established in Title 22 of the California Code of Regulations for safe water coming from a tap or a drinking water aquifer. If no MCL is available the corresponding **Environmental Screening Level (ESL, below) health based pathway** will be used in its place.

2 = **Environmental Screening Levels (ESLs)**: < [https://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/esl.html](https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.html) > The ESLs are agency-established threshold concentrations intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted based on risk pathways (protection of human health, groundwater and/or ecological). Source: The Regional Water Quality Control Board (San Francisco Bay Region) guideline document: Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater (Final version, 2019).

**BOLD** = Red highlight indicates the laboratory-detected concentration is equal to or greater than the corresponding MCL or ESL

< X = Constituent *not detected* above the laboratory-Reported Detection Limit (RDL, X). Refer to laboratory reports for detection limits.

bgs= below ground surface

**RDL = Reported Detection Limit** = is the laboratory-determined value that is 2 to 5 times above the Method Detection Limit (MDL) that can be reproduced in a manner that results in a 99% confidence level and is both accurate and precise (based on Laboratory's Blank (QA/QC)).

NE= Not Established

**MDL = Method Detection Limit** - The minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

**J** = This "J-Flag" is a lab-reported value that is detected at a concentration that is below the laboratory's RDL but above the MDL - the detection is considered an accurate detection of the compound, but it is an estimated value.



**Table 4**  
**Summary of Soil Analytical Results**

Volatile Organic Compounds  
1412-1514 Capitola Road, Santa Cruz

*All soil results are in milligrams per Kilogram (mg/Kg)*

Sample Information			Volatile Organic Compounds (VOCs) by EPA Method 8260B								
Sample Date	Sample ID	Depth (feet bgs)	PCE (Tetrachloroethene)	TCE (Trichloroethene)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	Other Compounds
April 1st & 2nd, 2020	SS-2	3	0.00162 J	<0.00114	<0.00114	<0.00569	<0.00285	<0.00740	<0.00114	<0.0142	2-Butanone (MEK) = 0.0223 J All Other VOC's = ND
		4.5	0.00132 J	<0.00119	<0.00119	<0.00594	<0.00297	<0.00773	<0.00119	<0.0149	2-Butanone (MEK) = 0.0308 All Other VOC's = ND
		12	0.0871	<0.00107	<0.00107	<0.00537	<0.00268	<0.00698	<0.00107	<0.0134	2-Butanone (MEK) = 0.0160 J All Other VOC's = ND
	SS-3	3	0.02	0.00423	<0.00126	<0.00629	<0.00315	<0.00818	<0.00126	<0.0157	2-Butanone (MEK) = 0.0488 All Other VOC's = ND
		6	0.484	0.00253	<0.00117	<0.00585	<0.00292	<0.00760	<0.00117	<0.0146	2-Butanone (MEK) = 0.0475 All Other VOC's = ND
		12	0.103	<0.00109	<0.00109	<0.00546	<0.00273	<0.00710	<0.00109	<0.0137	2-Butanone (MEK) = 0.0247 J All Other VOC's = ND
	GW-1	3	0.00213 J	<0.00124	<0.00124	<0.00618	<0.00309	<0.00803	<0.00124	<0.0155	2-Butanone (MEK) = 0.0607 All Other VOC's = ND
		7	0.005	<0.00118	<0.00118	<0.00590	<0.00295	<0.00767	<0.00118	<0.0147	2-Butanone (MEK) = 0.0438 All Other VOC's = ND
		12	0.00137 J	<0.00110	<0.00110	0.00375 J	<0.00274	<0.00713	<0.00110	<0.0137	2-Butanone (MEK) = 0.0386 All Other VOC's = ND
		24	<0.00308	<0.00123	<0.00123	0.00258 J	<0.00308	<0.00801	<0.00123	<0.0154	2-Butanone (MEK) = 0.0175 J All Other VOC's = ND
	GW-3	3	<0.00306	<0.00122	<0.00122	0.0176	0.000929 J	<0.00795	<0.00122	<0.0153	2-Butanone (MEK) = 0.0322 All Other VOC's = ND
		6	<0.00303	<0.00121	<0.00121	0.00192 J	<0.00303	<0.00788	<0.00121	<0.0152	2-Butanone (MEK) = 0.0198 J All Other VOC's = ND
		12	<0.00287	<0.00115	<0.00115	<0.00573	<0.00287	<0.00745	<0.00115	<0.0143	2-Butanone (MEK) = 0.0368 All Other VOC's = ND
		19	0.00698	<0.00119	<0.00119	<0.00595	<0.00297	<0.00773	<0.00119	<0.0149	2-Butanone (MEK) = 0.0429 All Other VOC's = ND
	GW-4	3	0.0196	<0.00126	<0.00126	<0.00628	<0.00314	<0.00817	<0.00126	<0.0157	2-Butanone (MEK) = 0.0584 All Other VOC's = ND
		6	0.00922	<0.00147	<0.00147	<0.00734	<0.00367	<0.00955	<0.00147	<0.0184	2-Butanone (MEK) = 0.05 All Other VOC's = ND
		12	0.0259	<0.00107	<0.00107	0.00908	<0.00268	<0.00696	<0.00107	<0.0134	2-Butanone (MEK) = 0.0255 J Acetone = 0.0206 J All Other VOC's = ND
		23	0.0934	<0.00106	<0.00106	<0.00532	<0.00266	<0.00691	<0.00106	<0.0133	2-Butanone (MEK) = 0.0165 J All Other VOC's = ND
	GW-5	3	0.0179	0.00309	<0.00128	<0.00639	<0.00319	<0.00830	<0.00128	<0.0160	2-Butanone (MEK) = 0.0487 All Other VOC's = ND
		6	0.164	0.000665 J	<0.00117	<0.00587	<0.00294	<0.00764	<0.00117	<0.0147	2-Butanone (MEK) = 0.0204 J All Other VOC's = ND
12		0.0338	<0.00112	<0.00112	<0.00560	<0.00280	<0.00727	<0.00112	<0.0140	2-Butanone (MEK) = 0.0489 All Other VOC's = ND	
27		0.22	<0.00116	<0.00116	<0.00580	<0.00290	<0.00754	<0.00116	<0.0145	2-Butanone (MEK) = 0.0303 All Other VOC's = ND	
DTSC Human Health, Risk-Based Screening Levels Residential / Commercial Land Uses <sup>(2)</sup>			0.59 / 22.7	NE	0.33 / 1.4	1,100 / 5,300	5.8 / 25	580 / 2,500	47 / 210	3.3 / 14	2-Butanone (MEK) = NE
Environmental Screening Levels (ESLs) <sup>(1)</sup> Residential / Commercial Land Uses (Construction Worker)			0.59 / 2.7 (33)	0.95 / 6.1 (130)	0.33 / 1.4 (33)	1,100 / 5,300 (4,700)	5.9 / 26 (540)	580 / 2,500 (2,400)	47 / 210 (4,100)	3.8 / 17 (400)	2-Butanone (MEK) = 27,000 / 200,000
"Tier 1 ESL" (lowest of all possible pathways & land uses) Basis = Human Health (HH), Leachability (L), Ecologic (Eco), or Odor (O)			0.08 (L)	0.085 (L)	0.025 (L)	3.2 (L)	0.43 (L)	2.1 (L)	0.028 (L)	0.033 (L)	2-Butanone (MEK) = 6.1 (L)

See Notes on Next Page



**Table 4**  
**Summary of Soil Analytical Results**  
**Volatile Organic Compounds**  
**1412-1514 Capitola Road, Santa Cruz**  
*All soil results are in milligrams per Kilogram (mg/Kg)*

**Notes**

**1 = CA DTSC Soil Screening Levels:** From the California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note Number 3, Table 1, April 2019. **If no DTSC screening level is established then the corresponding US EPA RSL is provided.**

**2 = Environmental Screening Levels (ESLs):** Regional Water Quality Control Board (San Francisco Bay Region) guideline document: *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* (Final version, 2019). The ESLs are intended to provide quantitative risk-based guidance on whether further assessment or remediation of contamination is warranted  
[https://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/ESL/new/ESL\\_Summary\\_Tables\\_24Jan19\\_Rev1.pdf](https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/ESL/new/ESL_Summary_Tables_24Jan19_Rev1.pdf) >

**TIER 1 ESL** = The most conservative Environmental Screening Level (ESL) across all potential pathways for all land uses (residential & commercial). Pathways include leaching (groundwater protection), human health, ecologic ("Terrestrial Habitat"), & volatilization (inhalation).

**L** = Indicates the lowest ESL is based on a **potential Leaching pathway** (for groundwater protection).

**HH** = Indicates the lowest ESL is based on a **potential Human Health & Safety Pathway** (ingestion, inhalation, dermal).

**ECO** = Indicates the lowest ESL is based on a **potential Terrestrial Habitat pathway**.

**O** = Indicates the lowest ESL is based on a **potential "odor nuisance"** (i.e. 100 mg/kg for gasoline).

**RDL = Reported Detection Limit** = is the laboratory-determined value that is 2 to 5 times above the Method Detection Limit (MDL) that can be reproduced in a manner that results in a 99% confidence level and is both accurate and precise.

**J** = Laboratory reports that the detection value is between MDL and RDL, and should be considered an estimate.

**^** = Detection and Quantitation Limits are raised due to sample dilution

**--** = Not Analyzed

**ND** = Non Detection

**<** = A "less than" symbol indicates no detectable concentrations (i.e., the laboratory **did not** detect the contaminant at the concentration shown).

<b>BOLD =</b>	A <b>bold</b> concentration indicates the laboratory detected the contaminant at the concentration shown.
<b>BOLD =</b>	Orange highlight indicates the analytical result is detected at a concentration that is <b>above the Commercial land use ESL</b> .
<b>BOLD =</b>	Green highlight indicates the analytical result is detected at a concentration that is <b>above the Residential land use ESL</b> .
<b>BOLD =</b>	Blue highlight indicates the analytical result is detected at a concentration that is <b>above the most conservative ESL (Tier I)</b>



**Appendix A**

**Field Documentation**

- 1) Geologic Logs**
- 2) Passive Soil Vapor Sample Installation**
- 3) Passive Soil Vapor Sample Collection**
- 4) Active Soil Vapor Sampling**
- 5) Groundwater and Soil Sampling**
- 6) Field Methodology**

**1) Geologic Logs**





# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 1, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**GW-1**

Sheet  
1 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						CL	<b>Sandy CLAY</b> , dark brown (3/3 10YR), moist to wet, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, organics and roots at surface, no odor, no discoloration. - Gradational Contact
1							
2						SC	<b>Clayey SAND</b> , olive (5/3 5Y), moist, appears medium dense to dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration.
3			GW-1-d3				
4			0.7 ppm				
5							
6							
7			GW-1-d7				- Abrupt Contact
8						SM	<b>Silty SAND</b> , pale brown (6/3 10YR), dry, very stiff, dominantly fine to medium sand, 20-30% silt, trace clays, localized oxidation staining, no odor, no discoloration.
9							
10			2.7 ppm				- formation becomes loose from 10-14' bgs.
11							
12			GW-1-d12				
13							
14						SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), dry to damp, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, no odor, no discoloration.
15			1.2 ppm				
16							
17							
18						SP	<b>Poorly Graded SAND</b> , pale brown (6/3 10YR), damp to moist, appears loose, dominantly fine to medium sand, no odor, no discoloration.
19							
20			1.2 ppm				- terminate boring at 15.5' bgs.



# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 1, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**GW-1**

Sheet  
2 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20						SP	<b>Poorly Graded SAND</b> , pale brown (6/3 10YR), damp to moist, appears loose, dominantly fine to medium sand, no odor, no discoloration. - Gradational Contact
21						SW	
22							<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), wet to saturated, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, no odor, no discoloration.
23							
24			GW-1-d24			SP	<b>Poorly Graded SAND</b> , pale brown (6/3 10YR), wet to saturated, appears loose, dominantly fine to medium sand, no odor, no discoloration
25			0.7 ppm				
26							<b>Well Graded SAND w/ Gravels</b> , light yellowish brown (6/4 10YR) saturated, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, trace mica, no odor, no discoloration.
27						SW	
28			0.1 ppm				- Terminate boring at 28 feet bgs due to clear saturation.
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							



# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 2, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**GW-3**

Sheet  
1 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						CL	<b>Sandy CLAY</b> , dark brown (3/3 10YR), wet to saturated, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, organics and roots at surface, no odor, no discoloration. - Gradational Contact
1							
2							
3			GW-3-d3			SC	<b>Clayey SAND</b> , olive (5/3 5Y), wet to saturated, appears medium dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration.
4			0.1 ppm				
5							
6			GW-3-d6				- Gradational Contact
7						SM	<b>Silty SAND</b> , pale brown (6/3 10YR), damp to moist, very stiff, dominantly fine to medium sand, 20-30% silt, trace clays, localized oxidation staining, no odor, no discoloration. - Gradational Contact
8			0.0 ppm				
9						SC	<b>Clayey SAND</b> , pale brown (6/3 10YR), moist to wet, appears medium dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration.
10							- Gradational Contact
11						SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), moist to wet, appears medium dense, dominantly fine to medium sand, 20% coarse sand, 15% fine gravels, localized oxidation staining, no odor, no discoloration. - Gradational Contact
12			GW-3-d12 0.2 ppm				
13						SP	<b>Poorly Graded SAND</b> , pale brown (6/3 10YR), moist to wet, appears loose, dominantly fine to medium sand, no odor, no discoloration.
14							
15							
16			0.3 ppm				- Gradational Contact
17						SW	<b>Well Graded Gravels w/ Sand</b> , yellowish red (5/8 5YR), wet, appears medium dense, dominantly fine to medium sand, 20% coarse sand, 20% fine gravels, localized oxidation staining, significant diversification in color (ranging from bright orange to black), no odor, no discoloration.
18							
19			GW-3-d19				- Gradational Contact
20			0.3 ppm				



# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 2, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**GW-3**

Sheet  
2 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20							
21							
22							
23							
24			0.1 ppm			SP	<p><b>Poorly Graded SAND w/ Gravels</b>, yellowish red (5/6 5YR), saturated, appears loose to medium dense, dominantly medium sand, localized fine gravels, localized oxidation staining, no odor, no discoloration.</p> <p>- Localized coarse rounded sands from 21.5 to 22' bgs</p> <p>- Localized coarse rounded sands from 23.5' to 24' bgs. -</p>
25							Terminate boring at 24 feet bgs due to clear saturation.
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							



# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 2, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**GW-4**

Sheet  
1 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						SM	<b>Silty SAND</b> , dark brown (3/3 10YR), damp to moist, appears medium dense, dominantly fine sand, 30-40% silt fines, trace clay binder, organics and roots at surface, no odor, no discoloration. - Gradational Contact
1							
2						SC	<b>Clayey SAND</b> , olive (5/3 5Y), damp to moist, appears medium dense to dense, low plasticity, dominantly fine to medium sand, 10-20% clay, 10-15% silts, localized oxidation staining, no odor, no discoloration. - Gradational Contact
3			GW-4-d3				
4							
5			0.7 ppm			SM	<b>Silty SAND</b> , pale brown (6/3 10YR), dry, appears medium dense to stiff, dominantly fine sand, 20-30% silt, trace clay binder, localized oxidation staining, no odor, no discoloration.  - Formation becomes very stiff from 6.5' to 8' bgs.  - Formation appears medium dense to loose from 8' to 13' bgs. - Silt content decreases to 10% from 8' to 13' bgs.  - formation becomes loose from 12-14' bgs.  - Silt content decreases to <5% from 12' to 13' bgs.  - Gradational Contact
6			GW-4-d6				
7							
8							
9							
10			2.7 ppm				
11							
12			GW-4-d12				
13						SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), dry to damp, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, no odor, no discoloration.  - Localized increase in gravels from 16.5' to 19' bgs.
14							
15			1.2 ppm				
16							
17							
18							
19						SP	<b>Poorly Graded SAND</b> , pale brown (6/3 10YR), damp to moist, appears loose, dominantly fine to medium sand, no odor, no discoloration.
20			1.2 ppm				



# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 2, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**GW-4**

Sheet  
2 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20						SP	<p><b>Poorly Graded SAND</b>, pale brown (6/3 10YR), damp to moist, appears loose, dominantly fine to medium sand, no odor, no discoloration. - Gradational Contact</p>
21						SW	
22							<p><b>Well Graded SAND</b>, yellowish red (5/6 5YR), damp to moist, appears loose to medium dense, dominantly fine to medium sand 20% coarse sand, trace localized gravels, no odor, no discoloration.</p> <p>- Localized saturated fine gravels from 25' to 26' bgs. - Abrupt Contact</p>
23			GW-4-d23				
24			0.7 ppm				
25							<p><b>Poorly Graded SAND</b>, pale brown (6/3 10YR), saturated, appears loose, dominantly fine to medium sand, trace mica, no odor, no discoloration</p>
26						SP	
27							
28			0.3 ppm				- Terminate boring at 28 feet bgs due to clear saturation.
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 2, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**GW-5**

Sheet  
1 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						CL	<b>Sandy CLAY</b> , dark brown (3/3 10YR), moist to wet, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, organics and roots at surface, no odor, no discoloration. - Gradational Contact
1							
2							
3			GW-5-d3			SC	<b>Clayey SAND</b> , olive (6/3 5Y), moist, appears medium dense to dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration.
4			0.0 ppm				
5							
6			GW-5-d6				- Gradational Contact
7							
8			0.0 ppm			SM	<b>Silty SAND</b> , pale brown (6/3 10YR), dry, very stiff, dominantly fine to medium sand, 20-30% silt, trace clays, localized oxidation staining, no odor, no discoloration.
9							
10							
11							
12			GW-5-d12				- formation becomes loose from 12-14' bgs.
13			0.0 ppm				
14							- Gradational Contact
15							
16			0.1 ppm			SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), dry to damp, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, no odor, no discoloration.
17							
18							- Gradational Contact
19						SP	<b>Poorly Graded SAND</b> , pale brown (6/3 10YR), damp to moist, appears loose, dominantly fine to medium sand, no odor, no discoloration.
20			0.0 ppm				



# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 2, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**GW-5**

Sheet  
2 of 2

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
20							
21						SP	<b>Poorly Graded SAND</b> , pale brown (6/3 10YR), damp to moist, appears loose, dominantly fine to medium sand, no odor, no discoloration. - Gradational Contact
22						SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), wet to saturated, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, no odor, no discoloration.
23							
24			0.0 ppm				
25							
26						SP	<b>Poorly Graded SAND</b> , pale brown (6/3 10YR), wet to saturated, appears loose, dominantly fine to medium sand, no odor, no discoloration
27							- Localized fine Gravels from 27' to 28' bgs
28		GW-5-d27	0.1 ppm				- Formation becomes saturated from 28' to 32' bgs. - Formation contains trace mica from 28' to 32' bgs.
29							
30							
31							
32			0.1 ppm				- Terminate boring at 32 feet bgs.
33							
34							
35							
36							
37							
38							
39							
40			1.2 ppm				





# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 2, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**SS-2**

Sheet  
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						SP	<b>Silty SAND</b> , dark brown (3/3 10YR), damp to moist, appears medium dense, dominantly fine sand, 30-40% silt fines, trace clay binder, organics and roots at surface, no odor, no discoloration. - Gradational Contact
1							
2							
3			SS-2-d3				<b>Clayey SAND</b> , olive (4/3 5Y), damp to moist, appears medium dense to dense, low plasticity, dominantly fine to medium sand, 10-20% clay, 10-15% silts, localized oxidation staining, no odor, no discoloration. - Silt content increases to 20-30% from 3.5' to 5' bgs
4			0.0 ppm SS-2-d4.5				
5							- Gradational Contact
6							<b>Silty SAND</b> , greyish brown (5/2 10YR), dry, appears very stiff, dominantly fine sand, 20-30% silt, trace clay binder, localized oxidation staining, no odor, no discoloration.
7							
8			0.0 ppm				- Formation becomes loose from 8'-12' bgs.
9						CL	
10							- Gradational Contact
11							<b>Well Graded SAND</b> , brownish yellow (6/6 10YR), damp to moist, appears loose to medium dense, dominantly fine to medium sand 20% coarse sand, trace localized gravels, no odor, no discoloration.
12			SS-2-d12 0.0 ppm				- Terminate boring at 12' bgs.
13							
14							
15							
16							
17							
18							
19							
20							

# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring

JOB NO.: 2t009 DATE: April 2, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**SS-3**

Sheet  
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data Calibrated to isobutylene (ppm)	Groundwater Depth	Lithologic Pattern	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, chemical odor.)
0						SM	<b>Silty SAND</b> , dark brown (3/3 10YR), damp to moist, appears medium dense, dominantly fine sand, 30-40% silt fines, trace clay binder, organics and roots at surface, no odor, no discoloration. - Gradational Contact
1							
2						SC	<b>Clayey SAND</b> , olive (4/3 5Y), damp to moist, appears medium dense to dense, low plasticity, dominantly fine to medium sand, 10-20% clay, 10-15% silts, localized oxidation staining, no odor, no discoloration.
3			SS-3-d3				
4			0.0 ppm				
5							- Silt content increases to 20-30% from 4.5' to 6.5' bgs
6			SS-3-d6				- Gradational Contact
7						SM	<b>Silty SAND</b> , greyish brown (5/2 10YR), dry, appears very stiff, dominantly fine sand, 20-30% silt, trace clay binder, localized oxidation staining, no odor, no discoloration.
8			0.0 ppm				
9							
10							- Formation appears medium dense from 9.5' to 11' bgs.
11							
12			SS-3-d12 0.0 ppm				- Formation becomes loose from 11-12' bgs.
13							- Terminate broing at 12' bgs.
14							
15							
16							
17							
18							
19							
20							

# GEOLOGIC LOG

Hydraulic Driven  
Geo-Probe Boring  
**Temporary Soil  
Vapor Probe**

JOB NO.: 2t009 DATE: April 1, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**SV-1**

Sheet  
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data (ppm) Calibrated to isobutylene Standard	Groundwater Depth	Lithologic Pattern & Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						--	- asphalt from 0-0.5'
1						SC	<b>Sandy CLAY</b> , dark brown (3/3 10YR), moist to wet, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, localized oxidation staining, no odor, no discoloration.
2							
3							- Gradational Contact
4			0.1 ppm			SC	<b>Clayey SAND</b> , olive (4/3 5Y), moist to wet, appears medium dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration.
5		SV-1-d5					
6							- Gradational Contact
7						SM	<b>Silty SAND</b> , greyish brown (5/2 10YR), dry, very stiff, dominantly fine to medium sand, 10-15% silt, trace clays, localized oxidation staining, no odor, no discoloration.
8			0.2 ppm				
9							- changes to medium dense to loose from 9-14' bgs - Silt increases to 20-25% from 9-14' bgs.
10							
11							
12			0.3 ppm				- Gradational Contact
13						SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), dry to damp, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, no odor, no discoloration.
14							
15		SV-1- d15	0.3 ppm				
16							- Terminate boring at 15.5' bgs.
17							
18							
19							
20							

# GEOLOGIC LOG

Hydraulic Driven  
Geo-Probe Boring  
**Temporary Soil  
Vapor Probe**

JOB NO.: 2t009 DATE: April 1, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**SV-2**

Sheet  
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data (ppm) Calibrated to isobutylene Standard	Groundwater Depth	Lithologic Pattern & Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						SP	<b>Poorly Graded SAND</b> , reddish brown (5/4 5YR), dry, appears loose, dominantly fine to medium sand, no odor, no discoloration. "Fill?"
1						CL	<b>Sandy CLAY</b> , dark brown (3/3 10YR), moist, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, localized oxidation staining, no odor, no discoloration.
2							- Gradational Contact
3							
4			0.2 ppm			ML	<b>Sandy SILT</b> , olive (4/3 5Y), damp to moist, appears medium dense, some plasticity, dominantly silt, 40% fine grained sand, trace clay fines, localized oxidation staining, no odor, no discoloration.
5		SV-2-d5					- Gradational Contact
6						SM	<b>Silty SAND</b> , greyish brown (5/2 10YR), dry, very stiff, dominantly fine to medium sand, 10-15% silt, trace clays, localized oxidation staining, no odor, no discoloration.
7							
8			0.1 ppm				- changes to medium dense to loose from 8-14' bgs - Silt increases to 20-25% from 8-14' bgs.
9							
10							
11							
12			0.0 ppm				
13							
14							
15		SV-2-d15	0.0 ppm			SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), dry to damp, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, no odor, no discoloration.
16							- Terminate boring at 15.5' bgs.
17							
18							
19							
20							

# GEOLOGIC LOG

Hydraulic Driven  
Geo-Probe Boring  
**Temporary Soil  
Vapor Probe**

JOB NO.: 2t009 DATE: April 1, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**SV-3**

Sheet  
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data (ppm) Calibrated to isobutylene Standard	Groundwater Depth	Lithologic Pattern & Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						CL	<b>Sandy CLAY</b> , dark brown (3/3 10YR), wet, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, organics and roots at surface, no odor, no discoloration.
1							
2						SC	<b>Clayey SAND</b> , olive (3/3 5Y), moist to wet, appears medium dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration.
3							
4			0.1 ppm				- Gradational Contact
5		SV-3-d5				SM	<b>Silty SAND</b> , greyish brown (5/2 10YR), dry, very stiff, dominantly fine to medium sand, 20-30% silt, trace clays, localized oxidation staining, no odor, no discoloration.
6							
7							- Formation becomes loose from 7-11' bgs
8			0.1 ppm				
9							
10							
11							- Gradational Contact
12			0.1 ppm			SP	<b>Poorly Graded SAND</b> , greyish brown (5/2 10YR), damp to moist appears loose, dominantly fine to medium sand, no odor, no discoloration.
13							- Abrupt Contact
14						SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), damp to moist, appears medium dense to very dense, dominantly fine to medium sand, 20% coarse sand, 20% fine gravels, localized wet soils, localized oxidation staining, no odor, no discoloration.
15		SV-3- d15	0.3 ppm				
15.5							- Terminate boring at 15.5 feet bgs; construct soil vapor probe as depicted in diagram.
16							
17							
18							
19							
20							

# GEOLOGIC LOG

Hydraulic Driven  
Geo-Probe Boring  
**Temporary Soil  
Vapor Probe**

JOB NO.: 2t009 DATE: April 1, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**SV-4**

Sheet  
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data (ppm) Calibrated to isobutylene Standard	Groundwater Depth	Lithologic Pattern & Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						CL	<b>Sandy CLAY</b> , dark brown (3/3 10YR), moist to wet, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, organics and roots at surface, no odor, no discoloration.
1							
2						SC	<b>Clayey SAND</b> , olive (4/3 5Y), moist, appears medium dense to dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration. - Gradational Contact
3							
4			0.0 ppm			SM	<b>Silty SAND</b> , greyish brown (5/2 10YR), dry, very stiff, dominantly fine to medium sand, 20-30% silt, trace clays, localized oxidation staining, no odor, no discoloration.
5		▲	SV-4-d5				
6							
7							
8			0.2 ppm				- clay increases to 10% from 8-11' bgs - formation becomes damp to wet from 8-11' bgs - formation becomes loose and plastic from 8-11' bgs.
9							
10							
11							- Gradational Contact
12			0.2 ppm			SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), dry to damp, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized oxidation staining, no odor, no discoloration.
13							
14							
15		▲	SV-4- d15 0.1 ppm				
16							- Terminate boring at 15.5' bgs.
17							
18							
19							
20							

# GEOLOGIC LOG

## Hydraulic Driven Geo-Probe Boring Temporary Soil Vapor Probe

JOB NO.: 2t009 DATE: April 1, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**SV-5**

Sheet  
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data (ppm) Calibrated to isobutylene Standard	Groundwater Depth	Lithologic Pattern & Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						CL	<b>Sandy CLAY</b> , dark brown (3/3 10YR), moist to wet, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, organics and roots at surface, no odor, no discoloration.
1							
2						SC	<b>Clayey SAND</b> , olive (4/3 5Y), moist, appears medium dense to dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration. - Gradational Contact
3							
4			0.1 ppm			SM	<b>Silty SAND</b> , greyish brown (5/2 10YR), dry, very stiff, dominantly fine to medium sand, 20-30% silt, trace clays, localized oxidation staining, no odor, no discoloration.
5		SV-5-d5					
6							
7							
8			0.1 ppm				- formation becomes loose from 8-11' bgs
9							
10							
11							- Gradational Contact
12			0.1 ppm				
13						SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), dry to damp, appears loose to medium dense, dominantly fine to medium sand, 20% coarse sand, 10% fine gravels, localized wet soils around gravels, localized oxidation staining, no odor, no discoloration.
14							
15		SV-5- d15	0.1 ppm				- Terminate boring at 15.5 feet bgs; construct soil vapor probe as depicted in diagram.
16							
17							
18							
19							
20							

# GEOLOGIC LOG

Hydraulic Driven  
Geo-Probe Boring  
**Temporary Soil  
Vapor Probe**

JOB NO.: 2t009 DATE: April 1, 2020

CLIENT: Santa Cruz County Department of Public Works

LOCATION: 1412, 1438, 1500, and 1514 Capitola Road, Santa Cruz

LOGGED BY: R. Nyberg

DRILLER: Cascade (Arturo)

DRILL METHOD: Hydraulic Driven Macro Core Probes

BORING #

**SV-6**

Sheet  
1 of 1

Depth (feet)	Sample Interval	Sample Analyzed	Sample Identification & Field PID Data (ppm) Calibrated to isobutylene Standard	Groundwater Depth	Lithologic Pattern & Probe Construction	USCS symbol	SOIL DESCRIPTION & CLASSIFICATION (Lithologic name, color, moisture, density/consistency, grain size%, other descriptors, HC odor.)
0						CL	<b>Sandy CLAY</b> , dark brown (3/3 10YR), wet, appears medium dense, high plasticity, dominantly clay, 30-40% fine to medium sand, trace silt fines, organics and roots at surface, no odor, no discoloration.
1							
2						SC	<b>Clayey SAND</b> , olive (4/3 5Y), wet, appears medium dense, high plasticity, dominantly fine to medium sand, 30-40% clay, trace silts, localized oxidation staining, no odor, no discoloration.
3							
4			0.1 ppm				
5		▲	SV-6-d5				
6							
7							- Gradational Contact
8			0.1 ppm			SM	<b>Silty SAND</b> , greyish brown (5/2 10YR), dry, very stiff, dominantly fine to medium sand, 20-30% silt, trace clays, localized oxidation staining, no odor, no discoloration.
9							
10							
11							- formation becomes loose from 9-13' bgs
12			0.1 ppm				- Gradational Contact
13							
14						SW	<b>Well Graded SAND w/ Gravels</b> , yellowish red (5/6 5YR), dry to damp, appears medium dense to very dense, dominantly fine to medium sand, 20% coarse sand, 20% fine gravels, localized oxidation staining, no odor, no discoloration.
15		▲	SV-6- d15 0.3 ppm				
16							- Terminate boring at 15.5 feet bgs; construct soil vapor probe as depicted in diagram.
17							
18							
19							
20							



## **2) Passive Vapor Sample Installation**

- INDICATE ATTACHMENTS THAT APPLY
- Air Map
  - Data Sheet
  - Geologic Map
  - Photo Sheets
  - LIDAR
  - Drapeable Version

Job Name: <u>Former Firing Areas</u>	Date: <u>2/25/20</u>
Site Location: <u>Captain Road Santa Cruz</u>	Study #: <u>27009</u>
Field Tasks: <input checked="" type="checkbox"/> Drilling <input checked="" type="checkbox"/> Sampling <input type="checkbox"/> Other (see below):	Weather Conditions: <u>Partly cool - no clouds - Sun</u>
Personnel/Company On-Site: <u>Passive Soil Vapor Sampling</u> <u>Hansen Hobbs, Ryan Nyberg (WHA)</u>	

TIME:

0715	Arrive on-site and discuss scope of work: - drill and install 44 sample locations for passive soil gas adjacent to - protocols for installation (ex. depths, diameter, etc.) will follow Decon Laboratory guidance. - See attached fieldsheet for additional sample location specific detail. - See photo sheets for additional detail. Note: Handless equipment present on-site → adjusted location of PSV-28 for safety.
0730	Begin drilling → Ryan will complete drilling at each location. I will deploy samples. See Ryan's fieldsheet for daily drill.
0815	Continue drilling and deploying passive soil vapor tubes. Difficult drilling conditions at PSV-36.
	Drilling continues → Passive vapor tube installation continues.
1120	- Break for lunch
1140	Continue drilling and sample deployment. - Pat Hobbs (WHA) on-site to photo document & observe sampling. Discuss project progress.
1215	- Pat departs Continue drilling and sample deployment
	All samples deployed. Will return in 7 days to retrieve samples. Sample locations marked w/pin flags.
1430	Pack equipment and demobilize.

*[Signature]* 2/25/20  
Signature of Field Person (I) or (R)

**EXPLANATION**

SOIL GAS SAMPLING PROBE LOCATION



Proposed Sampling Grid (50-ft centers)

Base Map from RRM Report (Jan-2020)

CAPITOLA ROAD

VP-1  
PCE = 8,200 ug/m3

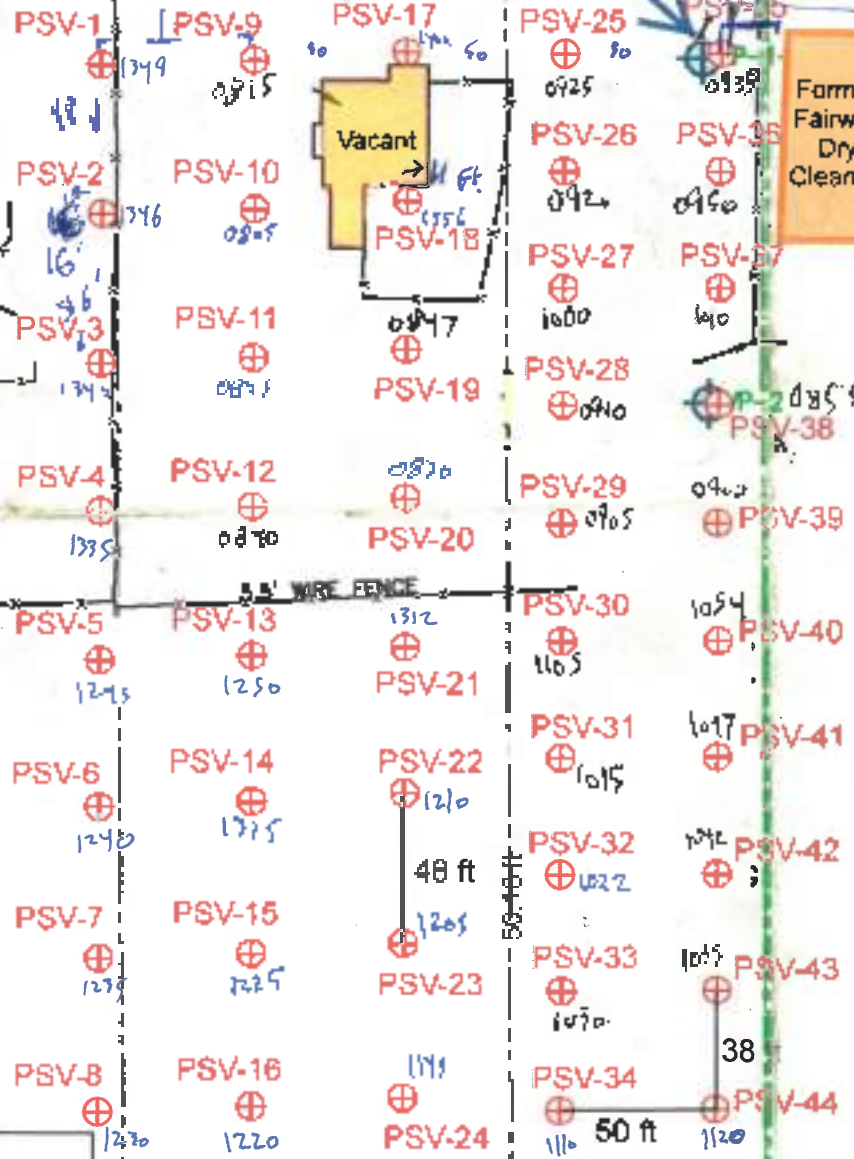
18 ft

60

Vacant

Vacant

Former Fairway Dry Cleaners





Drilling for Installation of Passive Soil Gas Sampler



Passive Soil Gas Sampler



Sampler Installed for 7 days



Samples Retrieved Following Laboratory Protocols

Passive Soil Vapor Sampling Field/area  
 Captable type

Sample ID	Installation Date	Installation Time	Color & Description?	Geology	Other Observations
PSV-1	2/25	1349	none	clayey sand	Barry near road/area driveway. (Dry 0-1') (Damp 1-2')
PSV-2		1340	none	Clayey sand	Barry near surface.
PSV-3		1342	none	<del>sandy clay</del> Asphalt + baserock 0-0.5' clayey sand 0.5-3'	Barry in asphalt driveway <del>--- surface</del> Dry <del>0-3'</del> 0-3'
PSV-4		1335	none	Asphalt + baserock 0-0.5' clayey sand 0.5-3'	Barry in asphalt driveway. Dry 0-3'
PSV-5		1249	none	hard clay w/sand (light brown)	-dry 0-2'. very stiff. Hard to A-TI -damp 2'-3'
PSV-6		1240	none	"	"
PSV-7		1235	none	clayey sand (dark brown) (0-1') -sandy clay (brownish orange) (1-3')	-dry (0-1') -damp/moist (1-3')
PSV-8		1230	none	"	"
PSV-9		0815	none	clayey SAND	wet/moist at 3' bgs. Compacted surface
PSV-10		0805	none	clayey SAND	"

Rescue Oil Rig/ Sampling Methods  
 Control Area

Sample ID	Installation Date	Installation Unit	Color or Discoloration?	Geology	Other Observations
PSV-11	2/25	0825	None	-imported coarse SAND 0'-3'	compacted driveway gravel and sand, to exist at 2'-3' bgs
PSV-12		0840	none	clayey SAND (dark brown)	moist from surface - 3'
PSV-13		1250	none	-clayey silt (dark brown) (0-1') -sandy clay (light orange) (1-3')	- dry - dry to damp
PSV-14		1315	none	"	"
PSV-15		1225	None	-clayey SAND (dark brown)	- damp to moist from 2'-3' - signs of gophers,
PSV-16		1220	none	"	- damp to moist 1.5-2' bgs
PSV-17		1402	none	sandy clay (dark brown) (0-3')	- damp to moist from (0.5'-3')
PSV-18		1356	none	sandy clay (dark brown) (0-3')	- damp to moist from (0.5'-3')
PSV-19		0847	None	clayey SAND	moist from surface to 3'
PSV-20		0830	None	Sandy CLAY from 1-3' bgs (light brown/orange) sandy SAND 0-1' bgs	moist from surface to 3' - Dry

Positive Soil Vapor Sampling / Ambient  
Cape Hills Road

Sample ID	Installation Date	Installation Time	Color or Discoloration?	Geology	Other Observations
PSV-21	2/25	1312	None	"	"
PSV-22		1210	None	Clayey SAND (dark brown)	- wet from 2.5-3' - dry / loose 0-1' layer - gopher signs
PSV-23		1205	None	"	- damp / moist 2-3' - damp / dry 1-2' - gopher signs
PSV-24		1143	None	"	"
PSV-25		0915	None	Clayey SAND (dark brown) - 0'-1' Sandy CLAY (light orange brown) 1'-2'	→ Saturated (muddy water coming up with the large amount of 1' → damp to moist. * some very loose / cavernous like gopher holes within (0'-1' layer)
PSV-26		0920	None	Clayey SAND (dark brown) - 0'-1.5' - Sandy CLAY (orange brown) - 1.5-3'	- moist / saturated from surface to 3'.
PSV-27		1000	None	- Clayey SAND (dark brown) LA 0-1'	- damp from surface to 3'
PSV-28		0910	None	Sandy CLAY (yellowish tan orange) (1'-3') - surface dark brown silt 0-1'	moist - from surface to 3'.
PSV-29		0905	None	"	"
PSV-30		1105	None	- Clayey SAND (dark brown)	- damp - 1'-3' - dry / loose 0-1'



Positive Soil Vapor Sampling Network  
Capitol Area

Sample #	Installation Date	Installation Time	Color & Discoloration?	Geology	Other Observations
PSV-31	2/25	1015	none	dark brown silty SAND w/clay (loose, gopher signs)	-gopher signs - moist/moist 2'-3'
PSV-32		1022	none	dark brown clayey SAND	- moist 0 - 3'
PSV-33		1038	none	"	"
PSV-34		1110		"	"
PSV-35		0935	none	harder soil at surface (0-1.5') Lo dark brown clayey SAND clay (orange brown) (1.5-2')	- wet/damp at 2-3' by - dup
PSV-36		0950	None	Mostly large to small rounded gravels from	
PSV-37		1010	none	- some small rounded pebbles - SAND w/clay	- damp from 2' - 3'
PSV-38		0855	None	- loose light tan brown silty SAND (very stratified)	- very loose. - moist from 1-3'
PSV-39		0900	none	- loose light tan brown silty SAND La 0-1' - orange tan CLAY 2'-3'	- moist from surface - 3' - Dup
PSV-40		1054	None	- muddy dark brown clayey SAND	- wet from surface - 3'

Positive Soil Vapor Sampling Method  
 Caprock Road

Sample ID	Installation Date	Installation Time	Flow or Discontinuity?	Geology	Other Observations
PSV-41	2/25	1047	none	Clayey SAND dark brown 0-3'	wet/moist s.s. from 0-3' deep
PSV-42		1042	none	"	"
PSV-43		1035	none	very muddy (wet-saturated at surface) -dark brown clayey SAND	-saturated from 0-3'
PSV-44		1120	none	"	" -Dry

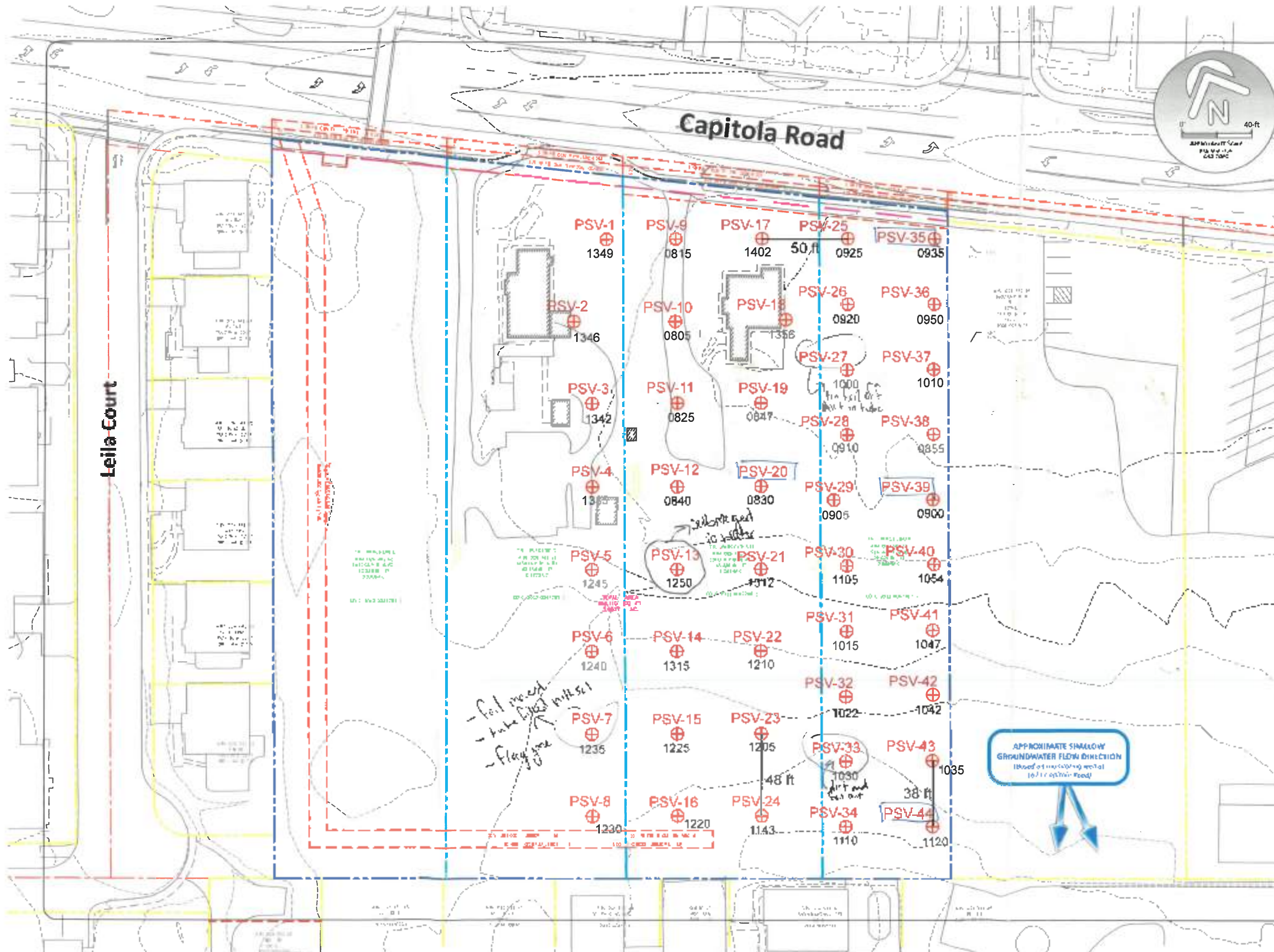
### **3) Passive Vapor Sample Collection**

Project / Client: <u>County of Santa Cruz</u>	Project #: <u>21009</u>
Site Location: <u>142, 149, 150, &amp; 1514 Capitola Rd</u>	Date: <u>3-3-20</u>
Field tasks: <u>Passive Soil Vapor Sample Collection</u>	Weather: <u>Sunny</u>
Personnel / Company On-Site: <u>RJ (WHA)</u>	
Attachments: Site Map <input type="checkbox"/> Data Sheets <input type="checkbox"/> Gauge Logs <input type="checkbox"/> Photos <input type="checkbox"/> CDC <input type="checkbox"/> Chargeable Materials <input type="checkbox"/>	

Time:	Notes:
	<del>Passive Soil Vapor Sample Collection</del> <del>Passive Soil Vapor Sample Collection</del>
0745	Arrived onsite with Harrison Prepping. Passive Soil Vapor Sample collection. First sample was placed a week ago. at 0805
0800	- Beginning sampling at 0805 at PSV-10. Harrison planning to take off soon.
1008	- PSV-27 has some dirt next and the soil was moved (gophers? dogs?)
1030	- <del>Something happened at PSV-33.</del>
1110	- Lunch Break. Working on COC and organizing sample bags.
1140	- Starting up again (PSV-24). Working on southwest corner of site.
1235	- PSV-7 had foil displaced and soil in metal tube.
1250	- PSV-13 is submerged in water (no significant odors of liquid so hopefully it is water). Sample was completely saturated.
1410	- Finishing up mobilization. Checking over field notes and COCs. Reviewing beacon checklist for sample delivery.
1430	- Mobilizing to Fed Ex to drop off samples.



Signatures of Field Personnel &amp; Date



**Site Map**  
**Supplemental Property Screening Assessment**

**FIGURE 2**  
 Project 21009

Site: County of Santa Cruz Redevelopment Parcels  
 Address: 1412, 1438, 1500 and 1514 Capitola Road, Santa Cruz

Date: February 2020

REVISIONS/NOTES:



**WEBER, HAYES & ASSOCIATES**  
 Hydrogeology and Environmental Engineering  
 170 Westgate Drive, Watsonville, CA  
 831.722.3590 / www.weber-hayes.com

#### **4) Active Vapor Sampling**







- Sampling
- Data sheets
- Logsheets
- Photo sheets
- DCR
- Change Worksheet

Job Name: 17th & Capital - Former Factory Cleanups	Date: 4/1/20
Site Location: 17th Avenue & Capital - Suite C02	Study #: 2T0096
Field Tasks: <input checked="" type="checkbox"/> Drilling <input checked="" type="checkbox"/> Sampling <input type="checkbox"/> Other (see below): Soil, Soil vapor, and Groundwater Sampling	Weather Conditions: Cool - Few clouds - Morning
Personnel / Company On-Site: Herman Huck (WHA), Ryan Nyberg (WHA), Cascade Drilling	

**TIME:**

0745	Arrive on-site and meet w/ Ryan Nyberg (WHA). Prepare equipment to complete soil, soil vapor, and groundwater sampling.
0800	Cascade Drilling (Arthur & Carlos) arrive on-site. Discuss drilling, mobilization, sampling, and timeline. - Review site health and safety plan and utility locations. Cascade begins preparations for soil vapor installs starting at SV-2 - Dual depth nested vapor probes set at 16' & 5' bgs. - See Ryan Nyberg's field sheets for drilling details, logs, etc. → Ryan will complete soil & G.W. sampling. Soil vapor samplers will be collected 2 hours following equilibration time. Cascade begins drilling
0910	- Probe 2:2 set at 0910 → SV-2. Mob. to SV-1 and prepare to drill. - probes set at 0915 Mob. to SV-4 and prepare to drill. - probes set at 1010 Mob. to SV-5 and prepare to drill - probes set at 1120 Mob. to SV-6 and prepare to drill.
1130	Begin purge at SV-2. Purge complete. See attached soil vapor field sheets for additional detail. See photo sheets for additional detail. - Sample collected @ SV-2-d15 Begin Purge at SV-2-d15. Purge complete. - Sample collected @ SV-2-d15. low-flow condition.

 4/1/20  
 Signature of Field Personnel Date

FIELD APPROPRIATE ATTACHMENTS THAT APPLY

- Shovel
- Data Sheet
- Geologic Log
- Photo Slides
- GPS
- Chargeable Materials

Job Name: 17 <sup>th</sup> Capitol - Former Fairview elements	Date: 4/1/20
Site Location: 17 <sup>th</sup> Avenue - Capitol Road, Santa Cruz	Study #: 2X0096
Field Tasks: <input checked="" type="checkbox"/> Drilling <input checked="" type="checkbox"/> Sampling <input type="checkbox"/> Other (see below): Soil vapor sampling	Weather Conditions: No clouds - Low
Personnel/Company On-Site: Hamilton Hunt, Ryan Nyberg (WHA), Lisa Ann Kelly	

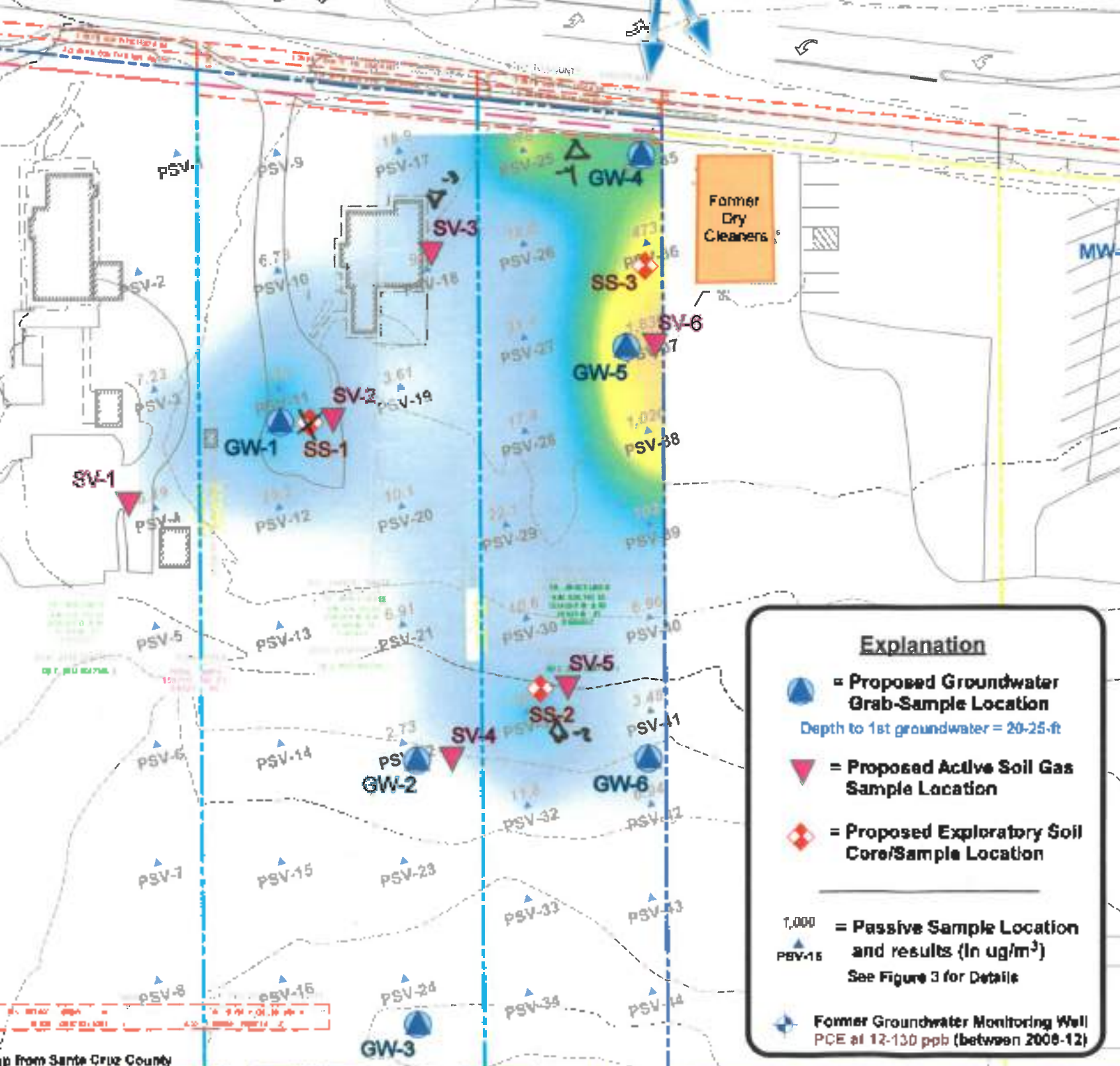
TIME:

12:00	Drillers break for lunch.
	Mob. to SV-1-d15 and prep for purge → purge complete - Sample collected.
	Pat Hoban arrives on site. Drillers drilling progress and <del>drill</del> field mob.
	Begin purge of SV-1-d15 → purge complete
13:05	- Sample collected
13:05	- Pat Hoban departs. Drillers mob. to SV-3 and begin probe installation.
	Mob. to SV-2-d15 and begin purge → purge complete. - Sample collected.
	Mob. to SV-4-d15 and begin purge → complete. - Sample collected.
	Mob. to SV-5-d15 and begin purge → purge complete
14:21	- Sample collected Begin purge of SV-5-d15 → purge complete. - Sample collected. Note: Rip-A collected here.
	Mob. to SV-6-d15 and begin purge → purge complete
15:28	- Sample collected. Note: probes set @ sv-5: 11:50 Begin purge of SV-6-d15 → purge complete - low flow conditions. Sample collected.
	Mob. to SV-3-d15 and begin purge → purge complete
16:33	- Sample collected. Ryan Nyberg departs. Begin purge of SV-3-d15 → purge complete. - Sample collected. Pack equipment and prep for dump.
17:00	Drillers depart. Will meet w/ lab courier and drop vapor samples under chain of custody.
17:30	Samples delivered to courier.

 4/1/20  
Signature of Field Personnel / Date

Capitola Road

APPROXIMATE SHALLOW GROUNDWATER FLOW DIRECTION  
(Based on monitoring well at 1671 Capitola Road)



**Explanation**

- = Proposed Groundwater Grab-Sample Location  
Depth to 1st groundwater = 20-25-ft
- = Proposed Active Soil Gas Sample Location
- = Proposed Exploratory Soil Core/Sample Location
- = Passive Sample Location and results (In ug/m<sup>3</sup>)  
See Figure 3 for Details
- = Former Groundwater Monitoring Well  
PCE at 12-130 ppb (between 2008-12)



# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

## Sample Location Information

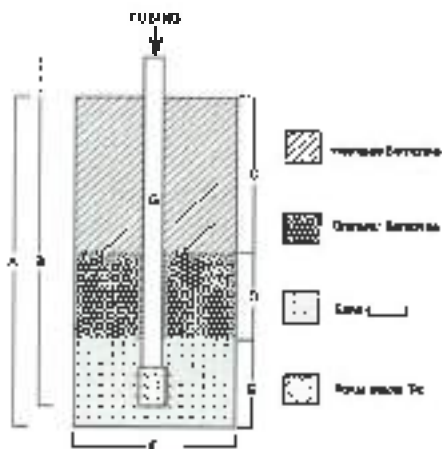
Project Name/No.: Former Fairway Cleaners - 2T008b Date: April 1, 2020  
 Sample ID: SV-1-15 Canister No: 5190 Manifold No: 1167, 1474  
 Sampler Name: Harrison Huckle Recorded by: HH

## Sample Analysis Information

Requested Analyses (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M-BTEX & TBA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-16; Methane, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1948; IPA by TO-15  
 Sample Collection Media: 1.4-L Summa Canister

Lab: BC Labs Transportation: Cooler

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 15.0'

- A: 15.5'
- B: 18.0'
- C: 13.5'
- D: 1'
- E: 1'
- F: 2.26"
- G: 3/16"

Volume Conversion (28.3 L ml, ft<sup>3</sup>):

- Tubing (per foot):  
 1/8-inch (ID) tubing = 2.4 mL/ft  
 3/16-inch (ID) tubing = 5.4 mL/ft
- Annulus:  
 Sand (P3 or K212) & Granular Bentonite (93.8% purity):  
 4-inch boring = 3,341 mL/ft  
 2.26-inch boring = 264 mL/ft  
 2.75-inch boring = 365 mL/ft

Annular Dead Space Volume:  
 (D-E) x Annulus Volume Conversion: 528 mL  
 Tubing Dead Space Volume:  
 (f) x Tubing Volume Conversion: 97.2 mL

Total Dead Space Volume (Tubing + Annulus): 625.2 mL

## System Purge Information

Required System Volume to Purged based on DTSC Guidance for vapor probe samples = 3 System ("dead space") Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1875.6 mL = 9.38 Hg Δ = (Flow Rate x Sample Time)

## Sampling and Leak Check Information

### Summa Canister:

Canister Volume: 1.4-L Manifold Shut-in check duration: 1 minute Manifold Leaking: Yes / No  
 Leak Check Tracer Compound: IPA (leak tracer compound applied to shroud encapsulating entire system)

### Begin Sample Collection:

Canister Sample Rate:  
180 mL/min  
 PID Calibration

Time	Eapsed Time	Shroud leak tracer concentration (ppm)	Vapor Probe Vacuum (inHg)	Canister Vacuum (inHg)	Initial canister vacuum
1230	0	--	61	30	30 "Hg
1232	2	50-100	61	22	
1234	4	50-100	61	15	
1236	6	100-150	61	10	
1238	8	50-200	61	5	
//					
HH					
//					
5 "Hg					

Post-Sample PID Reading: TVOCs

Average:

Comments: PID data by #3-4/1/20  
TVOC reading: 0.4 ppb

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

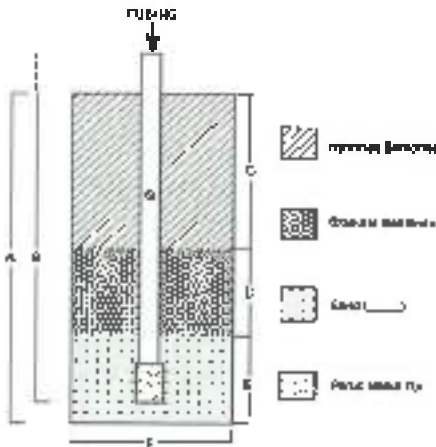
## Sample Location Information

Project Name/No.: Former Fairway Cleaners - 2T006B Date: April 3, 2020  
 Sample ID.: SV-2-ds Canister No.: 5173 Manifold No.: 1125, 1278  
 Sampler Name: Harrison Hucks Recorded by: HH

## Sample Analysis Information

Requested Analyses (circle all that apply):  
VOCs by EPA Method TO-15 or TO-14; M-TECH & IPA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-15 Methane, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1948; IPA by TO-15  
 Sample Collection Method: 1.4-L Summa Canister  
 Lab: BQ Labs Transportation: Courier

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 5.0'

A: 5.5' Volume: Annulus (28.317 mL/m')  
 B: 8.0' Tubing (HydFlow) 1/8-inch (od) tubing = 2.4 mL/ft  
 C: 3.5' 3/16-inch (od) tubing = 0.4 mL/ft  
 D: 1' Annulus: Sand (#3 or #20) & Granular Bentonite (32.8% porosity)  
 E: 1' 8-inch boring = 3.341 mL/ft  
 F: 2.25" 2.25-inch boring = 264 mL/ft  
 G: 3/16" 2.75-inch boring = 350 mL/ft

Annular Dead Space Volume (A-D) = Annulus Volume Conversion: 588 mL  
 Tubing Dead Space Volume (B-F) = Tubing Volume Conversion: 43.2 mL  
 Total Dead Space Volume (Tubing + Annular): 571.2 mL

## System Purge Information

Required System Volume to Purged based on DTSC Guidance for vapor probe samples = 3 System ("dead space") Volumes  
 Total BGA Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1713.6 mL = 8.5 \*Hg Δ = (Total Dead Space Vol) (Summa Canister)

## Sampling and Leak Check Information

Summa Canister: Canister Volume: 1.4-L Manifold Shut-in check duration: 1 minute Manifold Leaking: Yes   
 Leak Check Tracer Compound: IPA (Leak tracer compound applied to stand micro tubing entire system)

Time	Elapsed Time	Stand Leak BGA Concentration (ppm)	Vapor Probe Vacuum (mmHg)	Canister Vacuum (mmHg)	Canister Vacuum (mmHg)
1157	0	--	2	70	30 "Hg
1158	2	50-100	4	20	
1201	4	50-200	4	13	
1203	6	50-150	5	8	
1205	8	50-150	5	4	
Average:					4 "Hg

Post-Sample PID Reading: TVOCs  
 Comments: PID data, #2 - 4/1/20  
Total Vol: 0.0 ppm  
Low-flow conditions.

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

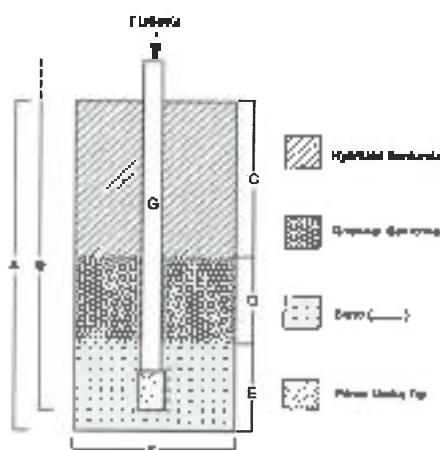
## Sample Location Information

Project Name/No.: Former Fairway Cleaners - 27009b Date: April 3, 2020  
 Sample I.D.: SV-2-118 Canister No: 6124 Manifold No: 1166  
 Samplers Name: Hartsock Hocka Recorded by: HH

## Sample Analysis Information

Requested Analysis (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M-STEM & TBA by EPA Method TO-13; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-15 Methane, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1946; IPA by TO-15  
 Sample Collection Media: 1.4-L Summa Canister  
 Lab: BC Labs Transportation: Counter

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 15.0'

- A: 15.5'
- B: 18.0'
- C: 13.5'
- D: 1'
- E: 1'
- F: 2.25"
- G: 3/16"

Volume Conversion (20.317 mL/L):  
 Tubing per foot:  
 1/8-inch (ID) tubing = 2.4 mL/ft  
 3/16-inch (ID) tubing = 5.4 mL/ft  
 Annular Space Sand (#6 or #2/12) & Granular Bedrock (31 8% porous):  
 6-inch boring = 3,341 mL/ft  
 2.25-inch boring = 264 mL/ft  
 2.75-inch boring = 326 mL/ft

Annular (Void Space) Volume: 528 mL  
 [D-E] x Annular Volume Conversion  
 Tubing Dead Space Volume: 97.2 mL  
 [B x Tubing Volume Conversion]  
 Total Dead Space Volume (Tubing + Annular): 625.2 mL

## System Purge Information

Required System Volume to Purge (based on OTC Guidance for vapor probe samples) = 3 System ("dead space") Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1875.6 mL = 9.38 "Hg Δ (Total Dead Space Vol / Sample Flow Rate)

## Sampling and Leak Check Information

### Summa Canister:

Canister Volume: 1.4-L Manifold Shut-in check duration: 1 minute Manifold Leaking: Yes  No   
 Leak Check Tracer Compound: IPA Leak tracer compound applied to shield encapsulating entire system:

Begin Sample Collection:  
 Canister Sample Rate  
180 mL/min  
 PIC Calibration:

Time	Elapsed Time	Shield leak check concentration (ppm)	Vapor Probe Vacuum (mmHg)	Canister Vacuum (mmHg)	Initial canister vacuum
1123	0	--	<1	30	30 mmHg
1125	2	40-70	<1	20	
1127	4	70-100	<1	11	
1129	6	100-150	<1	4	
H.H.					
Average:					9 mmHg

Post-Sample PID Reading: TVOCs

Comments: PID during #1 - 4/1/20  
Total BP detection: 2.4 ppm

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

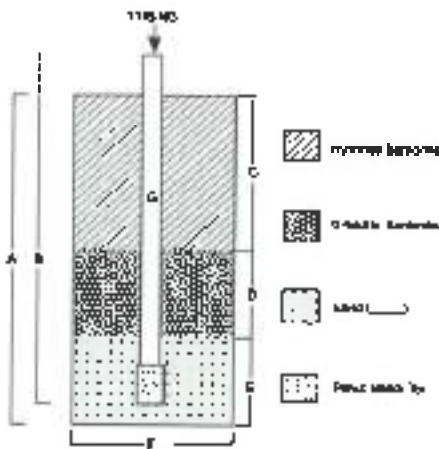
## Sample Location Information

Project Name/No.: Former Fairway Cleaners - 2T0088 Date: April 7, 2020  
 Sample ID: SV-3-ds Contactor No: 2871 Manifold No: 1266 / 1020  
 Sample Name: Hampton Humpy Reported by: HH

## Sample Analysis Information

Requested Analyses (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14, M-BTEX & TBA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-15  Methane, CO, & CO<sub>2</sub> by ASTM D-1946, IPA by TO-15  
 Sample Collection Media: 1.4-L Summa Canister  
 Lab: BC Labs Transportation: Courier

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 5.0'

- A: 5.5'
- B: 8.0'
- C: 3.5'
- D: 1'
- E: 1'
- F: 2.25"
- G: > 1/16"

Volumetric Conversions (20.3°C, 1 mL/L):  
 Tubing (Volume):  
 1/8-inch (ID) tubing = 2.4 mL/m  
 3/8-inch (ID) tubing = 5.4 mL/m  
 Annulus (Space (R3 or R2/12) & Granular Bentonite (30-8% density)):  
 8-inch boring = 3.341 mL/m  
 2.25-inch boring = 264 mL/m  
 2.75-inch boring = 385 mL/m

Annular Dead Space Volume: (D-E) x Annulus Volume Conversion = 528 ml  
 Tubing Dead Space Volume: (B-E) x Tubing Volume Conversion = 432 ml  
 Total Dead Space Volume (Tubing + Annular) = 571.2 ml

## System Purge Information

Required System Volume to Purge based on DTSC Guidance for vapor probe systems = 3 System ("dead space") Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1713.6 ml = 8.5 \*Hg Δ = (Total Dead Space / Sample Flow Rate)

## Sampling and Leak Check Information

Summa Canister:  
 Canister Volume: 1.4-L Manifold Shut-in check duration: 1 minute Manifold Leaking: Yes  No  
 Leak Check Tracer Compound: IPA (Leak tracer compound applied to shroud encapsulating entire system)

Time	Elsaped Time	Shroud leak tracer concentration (ppm)	Vapor Probe Vacuum (inHg)	Canister Vacuum (inHg)	inHg carbon vacuum:
1650	0	--	21	30	20 "Hg
1652	2	50-120	21	23	
1654	4	50-150	21	16	
1656	6	50-150	21	9	
1657	7	50-100	21	5	
Average:					5 "Hg

Post-Sample PID Reading: TVOCs  
 Comments: PID ~~data~~ here - 4/1/20  
TVOC reading: 0.1 ppm



# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

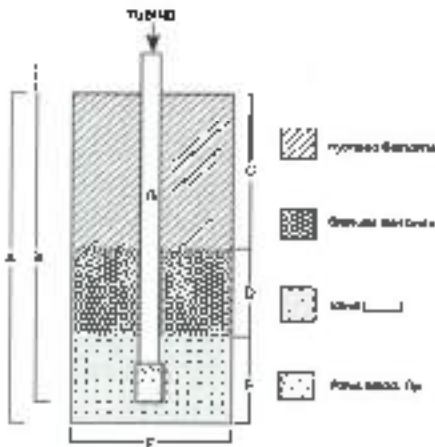
## Sample Location Information

Project Name/No.: Former Fairway Cleaners - 270000 Date: April 1, 2020  
 Sample ID: SV-2-015 Computer No: 00942 Manifold No: 123 / 1032  
 Sampler Name: Narrison Hudis Recorded by: HH

## Sample Analysis Information

Requested Analyses (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M-BTEX & TBA by EPA Method TO-15; Naphthalene by EPA Method TO-16  
 Sample Collection Media: 1.4-L Summa Canister  
 TPH-gas by EPA Method TO-16 Matrix: CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1946; IPA by TO-15  
 Lab: BC Labs Transportation: Carrier

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 15.0'

A: 15.5'  
 B: 18.0'  
 C: 13.5'  
 D: 1'  
 E: 1'  
 F: 2.25"  
 G: 3/16"

Volumetric Conversions (28.317 mL/l)  
 1/8-inch (od) tubing = 2.4 mL  
 3/16-inch (od) tubing = 5.4 mL  
 Annulus: Sand (90 or 92/12) & Granular Bentonite (33.7% porosity):  
 3-inch boring = 3.341 mL  
 2 7/8-inch boring = 264 mL  
 2 7/8-inch boring = 396 mL

Annular Dead Space Volume (2.81) x Annulus Volume Conversion: 578 ml  
 Tubing Dead Space Volume: (B x Tubing Volume Conversion): 97.2 ml  
 Total Dead Space Volume (Tubing + Annulus): 675.2 ml

## System Purge Information

Required System Volume to Purged based on LUSTC Guidance for vapor probe sampler = 3 System ("dead space") Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1875.6 ml = 9.38" Hg Δ

## Sampling and Leak Check Information

Summa Canister: Canister Volume 1.4L Manifold Shut-in check duration: 1 minute Manifold Leaking: Yes  No   
 Leak Check Trace-Compound: IPA (leak tracer compound applied to almost encapsulating entire system)

Time	Elapsed Time	Steady leak tracer concentration (ppm)	Vapor Probe Vacuum (inHg)	Canister Vacuum (inHg)	Initial Canister Vacuum
1627	0	-	21	30	30 inHg
1629	2	50-100	21	30	
1631	4	70-150	21	11	
1633	6	50-150	21	4	
Average:					Final Canister Vacuum:
					4 inHg

Comments: PIP data by #11 - 4/1/20  
Trace reading: 9.2 ppm

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

## Sample Location Information

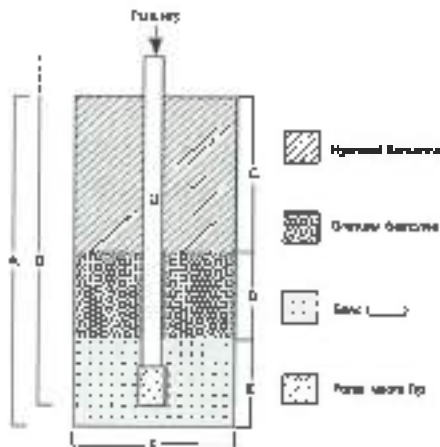
Project Name/No.: Former Fairway Cleaners - 2T008b Date: April 1, 2020  
 Sample ID: SV-4-25 Canister No: 1940 Manifold No: 609  
 Sampler Name: Markus Nuck Recorded by: HH

## Sample Analysis Information

Requested Analysis (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M-STE<sub>x</sub> & TBA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gel by EPA Method TO-15;  Metadene, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1946; IPA by TO-15  
 Sample Collection Media: 1.4L Summa Canister

Lab: BC Labs Transportation: Canister

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Seal Depth / Sample Depth: 5.0'

- A: 5.5'
- B: 8.0'
- C: 3.6'
- D: 1'
- E: 1'
- F: 2.25"
- G: 3/16"

Volumetric Conversions (28.317 mL/l):  
 Tubing (inches):  
 1/8-inch (ID) tubing = 2.4 mL/ft  
3/16-inch (ID) tubing = 5.4 mL/ft  
 Annulus: Sand (M) or #2/12; & Granular Bentonite (33.2% porosity)  
 8-inch tubing = 3.241 mL/ft  
2.25-inch tubing = 268 mL/ft  
 2.75-inch tubing = 385 mL/ft

Annular Dead Space Volume: 528 ml  
 (D-F x Annulus Volume Conversion)  
 Tubing Dead Space Volume: 43.2 ml  
 (E-G x Tubing Volume Conversion)  
 Total Dead Space Volume (Tubing + Annulus): 571.2 ml

## System Purge Information

Required System Volume to Purged based on DTSC Guidance for vapor probe samples = 3 System (Dead space) Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1713.6 ml = 8.5 "Hg @ 1 L/min  
 Total Dead Space Load (Sample Flow Rate)

## Sampling and Leak Check Information

Summa Canister: Canister Volume: 1.4L Manifold Shut-in check duration: 1 minute Manifold Leaking: Yes NO  
 Leak Check Inert Compound: IPA (leak tracer compound applied to shield encasing probe or the system)

Begin Sample Collection: Canister Sample Rate: 180 mL/min PID Calibration:

Time	Elapsed Time	Shielded leak tracer concentration (ppm)	Vapor Probe Vacuum (Hg)	Canister Vacuum (Hg)	Initial canister vacuum:
1346	0	--	<1	30	30 "Hg
1348	2	20-50	<1	30	
1350	4	100-200	<1	11	
1352	6	150-300	<1	4	
<i>HH</i>					
Average:					4 "Hg

Final canister vacuum

Post-Sample PID Reading: TVOCs  
 Comments: PID data #6  
TVOC reading: 6.9 ppm

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

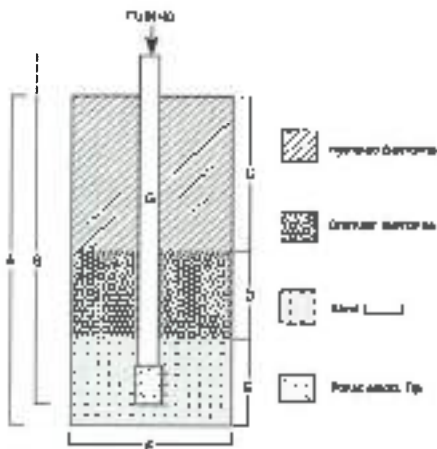
## Sample Location Information

Project Name/No.: Former Fairway Cleaners - 2T006B Date: April 7, 2020  
 Sample ID: SV-7-dfs Canister No: 289F Manifold No: 1043  
 Samplers Name: Narrison Huckis Recorded by: NH

## Sample Analysis Information

Requested Analyses (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M-BTEX & TBA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-15; Methane, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1546; IPA by TO-15  
 Sample Collection Media: 1.4-L Summa Canister  
 Lab: BC Labs Transportation: Counter

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 15.0'  
 A: 15.5'  
 B: 18.0'  
 C: 13.5'  
 D: 1'  
 E: 1'  
 F: 2.25"  
 G: 2/16"

Volume Conversion (20,317 mL/m<sup>3</sup>):  
 Tubing (inches): 1 1/8-inch (dl) tubing = 2.4 mLft  
3/16-inch (dl) tubing = 5.4 mLft  
 Annulus: Sand (#3 or #2/12; 6 Griniter Bentonite (33.8% porosity))  
8-inch boring = 3.341 mLft  
2.25-inch boring = 264 mLft  
2.75-inch boring = 306 mLft  
 Annular Dead Space Volume: 528 mL  
 (2.25" Annular Volume x porosity)  
 Tubing Dead Space Volume: 97.2 mL  
 (8" Tubing Volume x Conversion)  
 Total Dead Space Volume (Tubing + Annular): 625.2 mL

## System Purge Information

Required System Volume to Purge (based on DTSC Guidance for vapor probe samples) = 3 System ("dead space") Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1875.6 mL = 9.38" Hg Δ Total Dead Space Vol (Sample Flow Rate)

## Sampling and Leak Check Information

Summa Canister: 1.4-L Canister Volume  
 Manifold Shut-In check duration: 1 minute  
 Manifold Leaking: Yes (No)  
 Leak Check Tracer Compound: IPA (leak tracer compound applied to avoid encapsulating entire system)

Begin Sample Collection:  
 Canister Sample Rate: 180 mL/min  
 PID Calibration: 1333

Time	Elapsed Time	Should leak tracer concentration (ppm)	Vapor Probe Vacuum (Hg)	Canister Vacuum (Hg)	Canister Vacuum
<u>1325</u>	<u>0</u>	<u>--</u>	<u>&lt;1</u>	<u>30</u>	<u>30" Hg</u>
<u>1327</u>	<u>2</u>	<u>50-100</u>	<u>&lt;1</u>	<u>21</u>	
<u>1329</u>	<u>4</u>	<u>100-200</u>	<u>&lt;1</u>	<u>4</u>	
<u>1331</u>	<u>6</u>	<u>200-400</u>	<u>&lt;1</u>		
Average:					<u>4" Hg</u>

Post-Sample PID Reading TVOCs  
 Comments: PID daily #5 - 4/1/20  
TVOC reading: 4.1 ppm

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

## Sample Location Information

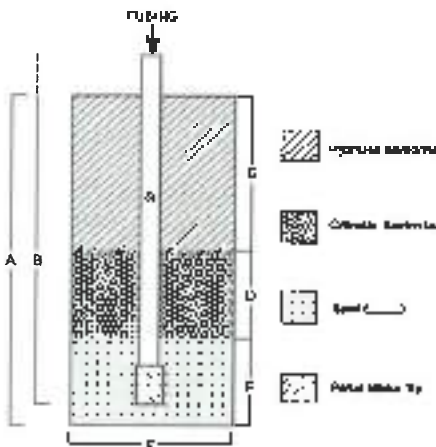
Project Name/No.: Former Fairway Cleaners - 27009b Date: April 1, 2020  
 Sample ID: SV-5-05 Canister No: 2378 Manifold No: 1201, 1016  
 Samplers Name: Nathan Hacks Pup: 1125 Recorded by: HH

## Sample Analysis Information

Requested Analytes (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M-BTEX & TEA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-15; Methane, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1345; IPA by TO-15  
 Sample Collection Media: 1.4L Summa Canister

Lab: SC Labs Transmission: \_\_\_\_\_ County: \_\_\_\_\_

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 5.0'

- A: 5.5'
- B: 8.0'
- C: 3.5'
- D: 1'
- E: 1'
- F: 2.25"
- G: 3/16"

Volumetric Conversions (28.317 mL/L):  
 Tubing (HydFlow) 1/2-inch (id) tubing = 2.4 mL/L  
 3/16-inch (id) tubing = 5.4 mL/L  
 Annulus Sand (#3 or #20) & Granular Bedding (33.0% porosity):  
 8-inch boring = 3,341 mL/L  
 2.25-inch boring = 264 mL/L  
 2.75-inch boring = 305 mL/L  
 Annulus Dead Space Volume: 528 mL  
 (2) 8-inch Annulus Volume Conversions  
 Tubing Dead Space Volume: 45.2 mL  
 (2) Tubing Volume Conversions  
 Total Dead Space Volume (Tubing + Annulus): 573.2 mL

## System Purge Information

Required System Volume to Purged based on DTSC Guidance for vapor probe sampler = 3 System (Total dead space) Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1719.6 mL = 8.5" Hg Δ (Total Dead Space Vol / Sample Flow Rate)

## Sampling and Leak Check information

Summa Canister: \_\_\_\_\_  
 Canister Volume: 1.4-L Manifold Shut In check duration: 1 minute Manifold Leaking: Yes  No   
 Leak Check Tracer Compound: IPA (leak tracer compound applied to thread encapsulating probe system)

Begin Sample Collection:  
 Canister Sample Rate: 180 mL/min  
 PID Calibration

Time	Elapsed Time	Should leak tracer concentration (ppm)	Vapor Probe Vacuum (Hg)	Canister Vacuum (Hg)	Initial canister vacuum:
1439	0	--	<1	30	30 "Hg
1441	2	10-20	<1	25	
1443	4	50-100	<1	21	
1445	6	30-60	<1	17	
1447	8	30-150	<1	13	
1449	10	50-100	<1	9	
1451	12	30-150	<1	5	
H.H.					Final canister vacuum:
					5 "Hg

Post-Sample PID Reading: TVOCs Average: \_\_\_\_\_  
 Comments: PID data by #8 - 4/1/20  
TVOC reading: 0.0 ppm  
DUP-A collected here.

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

## Sample Location Information

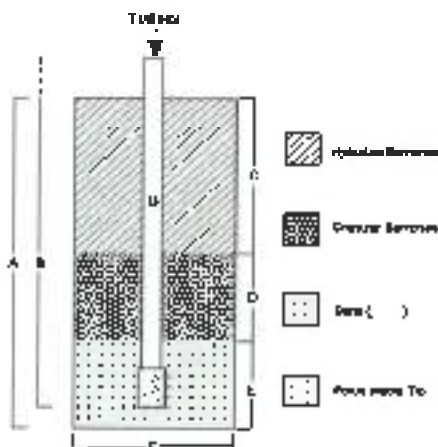
Project Name/No.: Former Fairway Cleaners - 27009B Date: April 7, 2020  
 Sample ID.: SV-5-d15 Canister No.: 5162 Manifold No.: 1026 / 1123  
 Sample Name: Flare Area Monitor Recorded by: NH

## Sample Analysis Information

Requested Analyses (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M-BTEX & TBA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-15 Methane, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1946, IPA by TO-15  
 Sample Collection Method: 1.4.4. Swamp Canister

Lab: BC Labs Transportation: Carrier

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 15.0'

- A: 15.5'
- B: 18.0'
- C: 13.5'
- D: 1'
- E: 1'
- F: 2.25"
- G: > 1/16"

Volumetric Conversions (20,317 mL/M<sup>3</sup>):

- Tubing (1/2-inch ID): 116-inch (ID) tubing = 2.8 mL/ft
- 3/16-inch (ID) tubing = 5.4 mL/ft
- Annulus: Sand (P3 or P212) & Granular Bentonite (33.8% porosity)
- 8-inch boring = 3,341 mL/ft
- 2.25-inch boring = 288 mL/ft
- 2.75-inch boring = 385 mL/ft

Annulus Dead Space Volume: 828 mL

Tubing Dead Space Volume: 97.2 mL

Total Dead Space Volume (Tubing + Annulus): 625.2 mL

## System Purge Information

Required System Volume to Purged based on DTSC Guidance for vapor probe samples = 3 System ("dead space") Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1875.6 mL = 9.18" Hg Δ = Total Mass Volume Purge Flow Rate

## Sampling and Leak Check Information

Summa Canister: 1.4L Canister Volume  
 Manifold Shut-off check duration: 1 minute  
 Leak Check Tracer Compound: IPA (Leak tracer compound applied to shield encapsulating entire system)  
 Manifold Leaking: Yes / No

Begin Sample Collection:  
 Canister Sample Rate: 180 mL/min  
 PID Calibration:

Time	Elapsed Time	Shielded leak tracer concentration (ppm)	Vapor Probe Vacuum (Hg)	Canister Vacuum (Hg)	Final canister vacuum
1413	0	--	21	30	30 "Hg
1417	2	20-50	21	20	
1419	4	40-60	21	10	
1421	6	50-100	21	4	
<u>N.H.</u>					Final canister vacuum:
Average:					<u>4 "Hg</u>

Final Sample PID Reading: TVOCs  
 Comments: PID daily #7 - 4/1/20  
Time reading: 8.4 ppal

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

## Sample Location Information

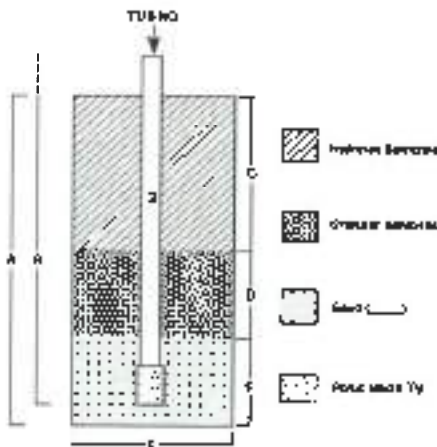
Project Name/No.: Former Fairway Cleaners - 2T000b Date: April 1, 2020  
 Sample ID.: SV-6-ds Canister No.: 6022 Manifold No.: 1104, 1129  
 Sampler Name: Herman Nuchit Recorded by: HH

## Sample Analysis Information

Requested Analyses (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M BTEX & TBA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-15; Methane, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1546; IPA by TO-15  
 Sample Collection Media: 1.4L Summa Canister

Lab: BC Labs Transportation: Carrier

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 5.0'

- A: 5.5'
- B: 8.0'
- C: 3.5'
- D: 1'
- E: 1'
- F: 2.25"
- G: 2/16"

Volumetric Conversion (20.317 mL/L)  
 Tubing Volume (mL):  
 1.0-inch (ID) tubing = 2.4 mL/L  
 3/16-inch (ID) tubing = 5.4 mL/L  
 Annular Space:  
 Sand (K) or #20/21 & Granular Boronite (33.8% porosity)  
 8-inch boring = 3,341 mL/L  
 2.25-inch boring = 264 mL/L  
 2.75-inch boring = 395 mL/L

Annular Dead Space Volume (K) = Annular Volume Conversion: 528 mL  
 Tubing Dead Space Volume (B) = Tubing Volume Conversion: 43.2 mL  
 Total Dead Space Volume (Tubing + Annular): 571.2 mL

## System Purge Information

Required System Volume to Purged based on DTSC Guidance for vapor probe samples = 3 System (Total dead space) Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1713.6 mL = 8.5" Hg @ 1 = Total Dead Space Vol (Sample Flow Rate)

## Sampling and Leak Check Information

Summa Canister:  
 Canister Volume: 1.4L Manifold Shut-in check duration: 1 minute Manifold Leaking: Yes  No   
 Leak Check Tracer Compound: IPA (Leak tracer compound applied in shroud enclosing probe system)

Time	Elapsed time	Shroud leak tracer concentration (ppm)	Vapor Probe Vacuum (Hg)	Canister Vacuum (Hg)	Initial canister vacuum:
1549	0	--	2	30	30 "Hg
1551	2	60-200	3	22	
1553	4	100-300	4	15	
1555	6	100-200	5	10	
1557	8	100-200	5	5	
Average					5 "Hg

Post-Sample PID Reading: TVOCs

Comments: PID datalog #10: 4/1/20  
TVOC reading: 0.2 ppm  
Low flow conditions

# ACTIVE SOIL VAPOR SAMPLING FIELD DATA SHEET

## Sample Location Information

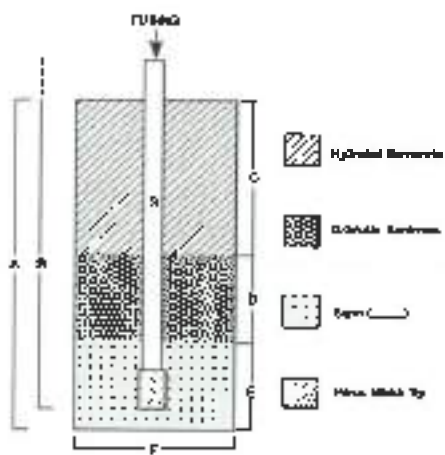
Project Name/No.: Former Fairway Cleaners - 2T0088 Date: April 3, 2020  
 Sample I.D.: SV-6-dis Canister No: 10315 Manifold No: 1172 1088  
 Samplers Name: Nathan Hudak Recorded by: FH

## Sample Analysis Information

Requested Analyses (circle all that apply):  
 VOCs by EPA Method TO-15 or TO-14; M-BTEX & TBA by EPA Method TO-15; Naphthalene by EPA Method TO-15  
 TPH-gas by EPA Method TO-15 Methane, CO<sub>2</sub>, O<sub>2</sub> by ASTM D-1948, IPA by TO-15  
 Sample Collection Media: 1.4-L Summa Canister

Lab: BC Labs Transportation: Cooler

## Semi-Permanent Vapor Probe Construction Details



Probe Tip Set Depth / Sample Depth: 15.0'  
 A: 15.5'  
 B: 18.0'  
 C: 13.5'  
 D: 1'  
 E: 1'  
 F: 2.25"  
 G: 3/16"

Volumes: Conversions (20.317 mL/ft³):  
 Tubing (Hydrant): 1/2-inch (od) tubing = 2.4 mL/ft  
3/8-inch (od) tubing = 0.8 mL/ft  
 Annulus: Sand (#3 or #20) & Granular Bentonite (33.5% porosity)  
5-inch boring = 3,341 mL/ft  
2.25-inch boring = 264 mL/ft  
2.75-inch boring = 360 mL/ft

Annular Dead Space Volume: 528 mL  
 (D - C) x Annulus Volume Conversion  
 Tubing Dead Space Volume: 97.2 mL  
 (D x Tubing Volume Conversion)  
 Total Dead Space Volume (Tubing + Annular): 625.2 mL

## System Purge Information

Required System Volume to Purge based on DTSC Guidance for vapor probe samples = 3 System ("dead space") Volumes  
 Total Site Specific Purge Volume = Total Dead Space Volume x # of System Volumes = 1875.6 mL = 9.38 "Hg Δc (Total Dead Space Vol / Volume of 1.4L)

## Sampling and Leak Check Information

Summa Canister:  
 Canister Volume: 1.4-L Manifold Shut-In check duration: 1 minute Manifold Leaking: Yes / No  
 Leak Check Tracer Compound: IPA (Leak trace compound applied to avoid any purging entire system)

Time	Elapsed Time	Should leak tracer concentration (ppm)	Vapor Probe Vacuum (mmHg)	Canister Vacuum (mmHg)	Initial canister vacuum:
1521	0	--	<1	30	30 "Hg
1523	2	100 - 500	<1	22	
1525	4	100 - 200	<1	15	
1527	6	200 - 300	<1	8	
1528	7	200 - 300	<1	4	
H.H.					Final canister vacuum:
					4 "Hg

Post-Sample PID Reading: TVOCs Average: \_\_\_\_\_  
 Comments: PID data log # 9; 4/1/20  
TVOC reading: 105.4 ppm



**Weber, Hayes & Associates**  
 Hydrogeology and Environmental Engineering  
 191 Arroyo Drive, Menlo Park, CA 94025  
 (650) 321-2500 or web@wheha.com

## SITE HEALTH & SAFETY PLAN

### Onvan Probe Soil, Soil Vapor, and Groundwater Sampling

This Site Health and Safety Plan has been prepared pursuant to the California Occupational Safety and Health Administration Title 8, Section 5192 Hazardous Waste Operations and Emergency Response, and the U.S. Occupational Health and Safety Administration 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response.

### 1.0 PROJECT INFORMATION/CONTACTS

**Job Name and Job Number:** Formerly used location 21005b  
**Site Location:** 1500 Cascade Road, Santa Cruz, CA  
**Client:** Santa Cruz County  
**Type of Facility:** Medical Residential (dentist)  
**Facility Condition:** In the closing back log

#### Subcontractors On-Site:

**Cascade Drilling Incorporated**  
 1117 L Lumber 3058510  
 Attn: Rick Skarsman  
 Phone: 707-438-4363

#### Regulatory Agency Contact(s):

**Local Regulatory Agency:**  
 Central Coast Regional Water Quality Control Board  
 Case Officer: Greg Bishop  
 Phone: 805-525-7132

### 2.0 EXPECTED SCOPE OF WORK

#### Soil Vapor Sampling:

- Install, sample, and destroy soil vapor probes at the site location.

#### Soil and Groundwater Sampling:

- Install, sample, and destroy soil cores and groundwater at the site location.

### Site Safety Plan Onvan Probe Soil, Soil Vapor, and Groundwater Sampling

#### Key Field Personnel:

Michael Hertz – WHA, Project Coordinator	Environmental Engineer & Site Safety Officer	Office: (650) 321-2500 Cell: (650) 320-0980
Ryan Murray – WHA, Project Assistant	Site Safety Officer	Office: (650) 321-2500 Cell: (650) 715-0980
Richard Hays – Cascade Drilling	Contractor	Cell: (408) 218-2758

### 3.0 HAZARD ASSESSMENT & SITE CONTROL MEASURES

The site contains vehicles used in the operation of a dry cleaning facility. The primary health and safety concerns at the site will be from physical activities with equipment. The exposure pathways of concern are inhalation of commercial solvents, ingestion, and dermal contact. Site workers will only be exposed to these elevated concentrations for a very limited amount of time and limited PPE will be used during these times.

#### Site Tasks:

- Drilling soil boring with lead free bit; & installation of temporary soil vapor probes
- Sampling of the soil vapor probes
- Removal/destruction of the temporary soil vapor probes and backfilling with cement grout
- Install at least three depth cation of soil borings to groundwater (approximately 20 feet bgl)

#### Anticipated Physical Hazards:

- Traffic: Truck and heavy equipment traffic hazards within exclusion zone will be avoided by maintaining eye contact and using hand signals. All heavy equipment will be required to have working audible reverse signals.
- Heavy Equipment: Potential physical hazards associated with drilling equipment and noise will be mitigated with proper use of PPE and exclusion of personnel other than those authorized in the drilling areas.
- Underground Hazards: Utilities to be located by Underground Service Alert (USA)





#### 4.0 PERSONAL PROTECTIVE EQUIPMENT & SITE MONITORING

**Personal Protective Equipment:**  
 (PPE required Personal Protective Equipment below.)

Based on the scope and nature of this field program the following appropriate level of personal protective equipment is required: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

R = required, A = as needed

Hard Hat: R	eye protection
Safety Boots: R	Respirator (Type A) (air supply)
Orange Vest: R	Eye Protection (organic vapor & particulate)
Training: Personnel: A	Hand Protection (nitrile)
Tool Controls: A	

##### Site Monitoring:

- As noted in the Site Control Section, laboratory analysis of sedimentation data will be used to periodically monitor activity in the work zone.
- Passive monitoring will be conducted by means of the "buddy system". Appropriate provisions and/or medical/emergency response will be made. Marked signs of low water tables or leakage are dependent on dry seasons.

##### Confined Space Entry Procedures:

Confined space entry is not a component of this investigation.

##### Tailgate Meetings:

The field superintendent will conduct daily Tailgate Safety Meetings prior to commencing work at the Site. In addition, the following minimum information will be provided to all Site personnel involved with the project:

- Name of personnel and alternate responsible for Site safety and health
- Safety Hazards and other hazards present at the Site
- Hospital directions
- General safety procedures and practices to minimize risk from hazards at the Site
- Task order procedures and practices
- Instructions for safe use of equipment
- OSHA rules for safe use of personal protective equipment
- Recognition of hot spots and areas which might indicate non-compliance to standards
- Site control measures
- Social Distancing protocol

#### Airborne Chemical Hazards:

HAZARDOUS MATERIAL	EXPECTED QUANTIFICATION (Soil / Water / Air)	HUMAN HEALTH
FFC 100-10-41	Site soil levels are less than 40,000 ug/m <sup>2</sup> (100 ug/m <sup>2</sup> ) CONCENTRATIONS ARE LESS THAN 1,000,000 ug/m <sup>3</sup>	Respiratory irritation, respiratory system, dizziness, drowsiness, headache, nausea, etc. AT-RISK (WITH PROTECTIVE GEAR TO AVOID CONTACT)

#### Site Control Measures:

##### Ingestion Exposure & Control Measures:

- Ingestion of inhaled materials is a primary (potential) exposure route of concern. This exposure pathway can be controlled with the implementation of proper hygiene practices (i.e., wearing gloves and washing before eating, drinking, or using the restroom).
- Inhalation of contaminants appears to be a primary potential exposure route of concern. A positive photoionization detector will be used to periodically monitor air quality in the work zone. If concentrations of  $\mu\text{O}_3$  exceed 200 ppm for greater than 5 minutes then the work zone will be evacuated, or Class C PPE will be donned (i.e., full-face respirator with organic filter cartridges and goggles).

##### Traffic Control Measures (pedestrian and vehicle):

- No pedestrians will be allowed in the work zone other than authorized personnel.
- Truck and heavy equipment traffic through work areas will be avoided by maintaining eye contact and using hand signals. All heavy equipment will be required to have working red backhoop signals.

##### Decontamination Procedures:

- Personnel must not drink water / eat / work in a decontamination area. All decontamination will be properly contained and properly disposed of following the field investigation.



**1600 Capitola Rd**

- 1 Head east on Capitola Rd toward 15th Ave
- 2 Turn left onto 17th Ave
- 3 Use the 3rd lane to turn left onto Capitola Ave
- 4 Sharp right onto Capitola Ave
- 5 Turn left
- 6 Turn left
- 7 Turn right

**Dominican Hospital**

1000 Capitola Road, Santa Cruz, CA 95062

4. Emergency/Contingency procedures

**5.0 MEDICAL SURVEILLANCE AND EMERGENCY RESPONSE**

Medical surveillance practices for all Site employees will be maintained in accordance with 42 CFR 84 California Code of Regulations, Section 51501.01(MAR)

Appropriate level PPE will be donned when an incident occurs to mitigate potential physical hazards.

In the event of these physical hazards, appropriate first aid will be administered and workers transported to the emergency room if necessary. In the event of significant physical injury beyond the level of first aid response, emergency response personnel will be contacted immediately by calling 911.

**Hospital Directions: See attached Map**

Hospital/Clinic: Dominican Hospital  
 2555 Capitola Drive  
 Santa Cruz, CA

Fire (911) or 911: Phone Number: 911  
 Paramedic: Phone Number: 911  
 Police Department: Phone Number: 911

**DISCLAIMER AND SIGNATURES**

Site Hazard Information Provided By: Kameron Hixon – Site Safety Officer

\_\_\_\_\_  
 Kameron Hixon, Site Safety Officer

Notes: A competent person has supervised the work and is responsible for maintaining the safety of a condition or work conditions to safety conditions. This site safety plan is designed to provide workers right to know information on the consequences of workers and general site hazards with the site safety plan. We trust the professional abilities of Weber, Hayes and Associates, Inc. the University of Weber, Hayes and Associates employees and subcontractors, shall be confident in their Weber, Hayes and Associates has any responsibility for the methods of work we perform in accordance with, respecting of communication of safety information about the site.

PRINT NAME & INITIAL FOLLOWING TRACKING ASSIGNED AND SAFETY INSPECTIONS

Kameron Hixon \_\_\_\_\_

Carlo M... .. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

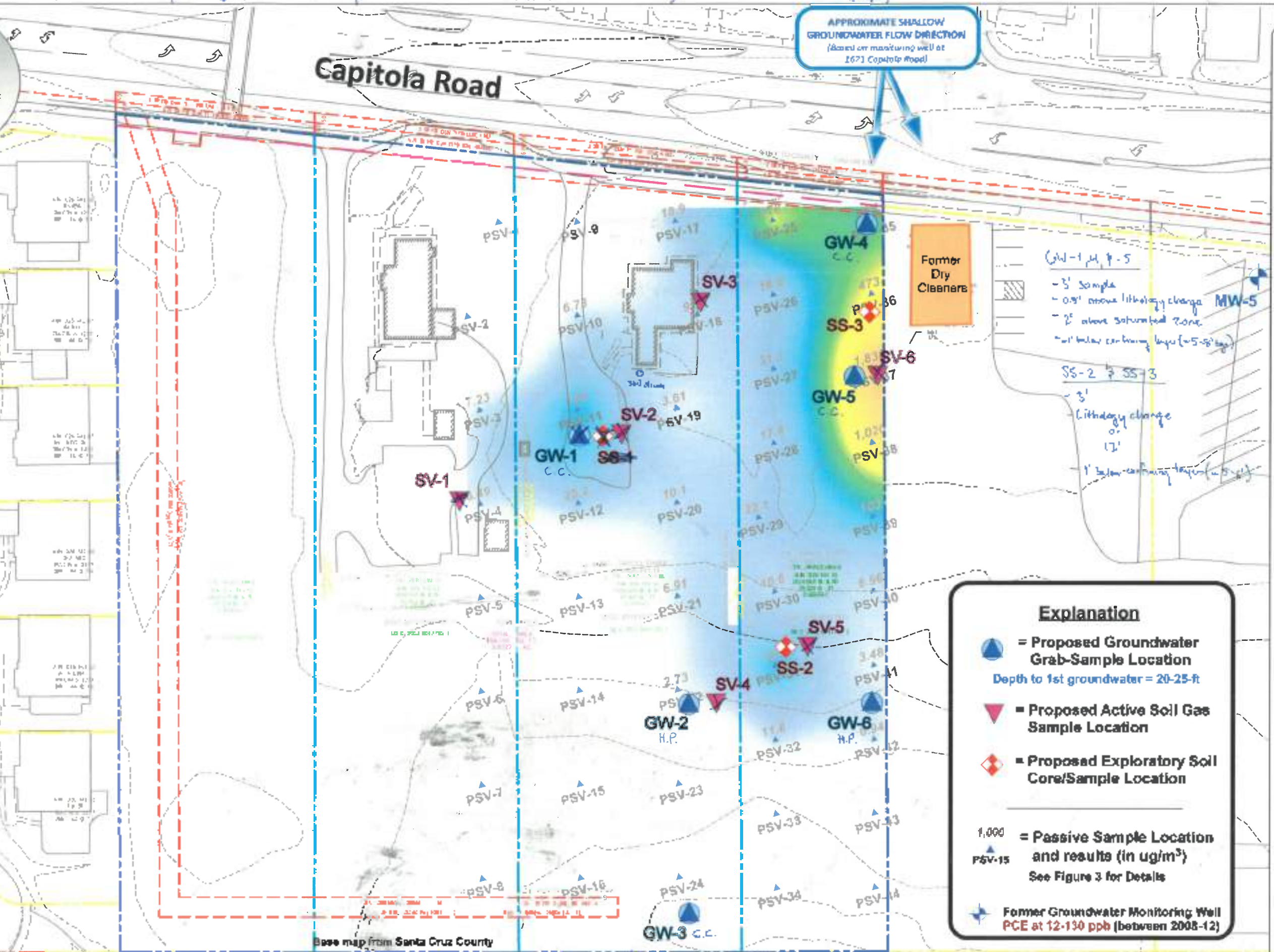
## **5) Groundwater and Soil Sampling**

Project / Client: <u>City of Santa Cruz</u>	Project #: <u>21009</u>
Site Location: <u>Capitola Rd., Santa Cruz</u>	Date: <u>4-1-20</u>
Field tasks: <u>SV, GW, Soil Sampling</u>	Weather: <u>cloudy morning</u>
Personnel / Company On-Site: <u>Cascade (Apostol) ; WHA (HH, EW)</u>	
Attachments: <u>Site Map</u> <u>Data Sheets</u> <u>Geologic Logs</u> <u>Photos</u> <u>COC</u> <u>Chargeable Materials</u>	

Time:	Notes:
0745	- Arrived onsite with Harrison. Cascade is to arrive around 0800. Plan for log and set up soil vapor (dura depth) first (SV-1 through SV-6). Logging all continuously. Cased borings 5' & 15' bgs.
0910	- Site Safety Meeting addressed COVID 19 and to stay 6' away from each other. Also PPE is normal, containment of concern (COC).
0830	- Starting on SV-2 in the partial driveway. Taking samples (septile sealed metal tubes samples) at 5' and 15' bgs for soil vapor backup samples. - Starting Soil Draw (55-gal) directly south of the control house. - SV-2 setting time 0910.
0930	- Starting SV-1. Set Home 0945.
0958	- Finished logging SV-1 and SV-2. Currently deconing drilling equipment. Soil Logging highlight notes: Confining dense silty SAND layer (very stiff) ~ 5'-6' bgs. Change to a loose silty SAND → well graded SAND w/Gravels from 9'-to 5' bgs.
1040	- SV-4 set at 1040. Finished logging (very similar with the other two soil vapor).
1050	- Moving to SV-5. SV-5 set at 110.
1150	- SV-6 set at 1150. Taking backup sample with Terra Core kits because this location is in the contaminated area.
1207	- Moving to the last soil vapor SV-3. SV-6 was very similar to all the rest of the borings.
1210	- Taking Lunch
1230	- Pat arrived onsite. Talked about taking additional samples below the confining dense silty SANDs at ~ 5:10 bgs. Samples will be taken at ~ 13-16' bgs in the well graded sand <del>zone</del> w/Gravels zone from 12-15' bgs to insure there is no below confining layer contamination. We will have a better idea where this sample should be taken after a groundwater sample location. Holding all of these additional samples except for the locations in Pat zones.
1310	- Starting on SV-3. Doctor's note it is very hard (compacted) to drill SV-3. SV-3 set time 1340.
1409	- Moving to GW-1. Targeting first encountered saturated zone (~ 20'-30' bgs) <sup>expected</sup>
1437	- Groundwater at 20-25' bgs in well graded SAND w/Gravels, west to saturated starting from 21-26'. Sample taken 2' above saturated zone at 24' (GW-1-d24)

Project / Client:		Project #:	
Site Location:		Date:	
Field tasks:		Weather:	
Personnel / Company On-Site:			
Attachments:	Site Map	Data Sheets	Geologic Logs
			Photos
			COC
			Chargeable Materials

Time:	Notes:
1430	- Setting up groundwater sampling, using Corcoran peristaltic pump. Sampling with a 5-foot screen from 2'-3' - 28' logs. Sampler ID: GW-1. - Only able to fill one vial after purging. Going to have to reduce the casing and push further. New screen is from 21'-28'. Finished sampling the GW-1 samples. GW-1-d3; GW-1-d7, GW-1-d12, GW-1-d24 (in to casing)
1620	- Finishing up pulling GW-1 and packing up for today. Planning on coming back tomorrow at 0700. Still need to continuously core 3 GW samples and 2 soil samples and hydroprobe 2 GW samples.
4/2 0700	- Arrived onsite with Arturo and Carlos. Today's plan is to continuously core GW-4, GW-3, and GW-5 and log these in detail. Also continuously core SS-3 and SS-2 to 12-feet or deeper if viable contamination is found. And also hydroprobe GW-2 and GW-6 to a target screen of <u>25'-30' logs</u> .
0720	- Starting at <u>GW-5</u> (target zone). Continuous coring to 28'-30' logs unless shallower saturated zone.
0800	- GW at 24.42 and total depth is 32' logs. ~7.63' of water in boring. 10' screen from 22' - 32' logs.
0826	- Finished GW-5. Moving to GW-9.
0915	- <u>GW-4</u> depth is 28' (screened from 28'-28' logs). Water level from 24' logs (3.6' of water) 5' screen
1000	- Finished SS-3. Took sample at (SS-3-d3) 3' to check shallow source, 6' to check directly above very stiff confining layer, and 12' to check below confining layer
1042	- Moved to <u>GW-3</u> . Saturated from surface to confining very dense silt/sandstone. <del>target</del> GW at 21'-24' logs. Screening from 19'-24' (5' screen)
1120	- Harrison came to check in. Working on <u>GW-2</u> (hydroprobing to 24' logs) - GW-2 screened from 19'-24'. Tapped water at 22.1' (1.9' of water)
1154	- Starting SS-2. Got samples at 3' (shallow), 4.5' (above confining layer), and 12' (below confining layer)
1230	- lunch time
1310	- Redrilling GW-6 (no water screened from 19'-24' logs)
1358	- screened from 20'-25' and got water from 20'-25' (3'-4')
1430	- Finished. Going to Field for to ship samples overnight.



APPROXIMATE SHALLOW GROUNDWATER FLOW DIRECTION (Based on monitoring well at 1671 Capitola Road)

Former Dry Cleaners

GW-1 p. 5  
 - 3' sample  
 - 0.5' above lithology change  
 - 2' above saturated zone  
 - 1' below confining layer (~5-8' deep)

SS-2 & SS-3  
 - 3' lithology change  
 - 1' below confining layer (~5-8')

**Explanation**

- = Proposed Groundwater Grab-Sample Location  
Depth to 1st groundwater = 20-25-ft
- = Proposed Active Soil Gas Sample Location
- = Proposed Exploratory Soil Core/Sample Location
- = Passive Sample Location and results (in ug/m<sup>3</sup>)  
See Figure 3 for Details
- = Former Groundwater Monitoring Well  
PCE at 12-130 ppb (between 2008-12)

Base map from Santa Cruz County

Step-out Groundwater, Soil Vapor, & Soil Sample Locations

FIGURE



**Weber, Hayes & Associates - CA**  
 120 Westgate Drive  
 Watsonville, CA 95076

Accounts Payable- Laura Garcia  
 120 Westgate Drive  
 Watsonville, CA 95076

Report to: **Ryan Nyberg**

Project: **Capitola Rd**

City/State: **Santa Cruz**

Phone: **831-722-9500**

Client Project #: **2000**

Job Project #: **WEBHAYWCA-2700**

Collected by: **Ryan Nyberg**

Property to #: **2541 CAPITOLA RD SANTA**

FO #: **21009**

Quota #: **21009**

Remarks:

Sample ID	Comp/Stat	Moist *	Depth	Date	Time	Notes
GW-1		GW	4 1/2'			
GW-2		GW	4 1/2'			
GW-3		GW				
GW-4		GW				
GW-5		GW				
GW-6		GW				
SV-5-05		5" GW	5'	4/1/20		HOLD
CV-5-05		1" GW	15'			HOLD
SV-6-05		5" GW	5'			HOLD
CV-6-05		1" GW	15'			HOLD

1275 868 39226

04-020

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08

**Weber, Hayes & Associates - CA**  
 120 Westgate Drive  
 Watsonville, CA 95076

Accounts Payable- Laura Garcia  
 120 Westgate Drive  
 Watsonville, CA 95076

Report to: **Ryan Nyberg**

Project: **Capitola Rd**

City/State: **Santa Cruz**

Phone: **831-722-9500**

Client Project #: **2000**

Job Project #: **WEBHAYWCA-2700**

Collected by: **Ryan Nyberg**

Property to #: **2541 CAPITOLA RD SANTA**

FO #: **21009**

Quota #: **21009**

Remarks:

Sample ID	Comp/Stat	Moist *	Depth	Date	Time	Notes
SS-2-03		SS	3'			
SS-3-05		SS	1.5'			
SS-3-07		SS	11'			
SS-3-05		SS	3'			
SS-3-06		SS	5'			
SS-3-07		SS	15'			
GW-1-07		SS	7'	4/1/20		
GW-1-07		SS	7'			
GW-1-07		SS	15'			
GW-1-07		SS	20'			

1275 860 39226

04-020

MM  
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12  
13  
14  
15  
16  
17  
18





## **6) Field Methodology**

- **Passive Soil Gas Sampling**
- **Hydraulic Driven Probe Sampling**
- **Active Soil Gas Sampling**

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## **Passive Soil Gas Sampling**

**FIELD KIT GUIDE**  
**FOR**  
**PASSIVE SOIL-GAS INVESTIGATIONS**  
*[READ ENTIRE GUIDE BEFORE STARTING SURVEY]*

**I. General Information**

A. BEACON assembled this kit for **Weber, Hayes & Associates** to perform sampling on the **17th Ave & Capitola Rd. PCE Site in Santa Cruz, CA**. To meet the project objectives, retrieve Samplers **7 days after installation**. Contact BEACON, following installation of the samplers, at [Ryan.Schneider@beacon-usa.com](mailto:Ryan.Schneider@beacon-usa.com) or (800) 878-5510 to schedule analysis in BEACON's laboratory.

B. Inventory the contents of the kit *before going to the field*, check items against the enclosed list to verify and familiarize. The components are thoroughly cleaned prior to shipment. Conduct inventory without opening the plastic bags. Note that Trip Blanks are to remain sealed throughout the Survey.

C. Prior to returning the Kit to BEACON, verify the caps are tight on each Passive Soil-Gas (PSG) Sampler, Samplers are individually bagged and sealed in the small Sampler Bags, and packed together in the larger Return Shipment Bag, containing an adsorbent pak.

D. Upon completion of the survey, fill in the Chain-of-Custody Form with the following information: (i) Field Sample IDs, (ii) the name and contact phone number of the person submitting the samples, (iii) the unique number of the custody seal that will be used, and (iv) signature and date of person relinquishing samples. Return the Chain-of-Custody Form with the Field Kit to BEACON. Retain photocopies or photographs for your record. Next, pack the Samplers in their own 3x4 white labeled bag & put those in a return shipment bag (*Please label the 3x4 bags*), containers, and requisite documentation (in a protective bag) in the Field Kit.

**Note:** Place the Return Shipment Bag, containing the individually bagged PSG Samplers, in the upper tray and place the tools in the lower compartment of the Kit to avoid Sampler damage. Include one trip blank with each Return Shipment Bag containing samplers.

Affix the tug-tight custody seal to the latch on the Field Kit. Pack kit in its original cardboard shipping container, attach the provided return label, and relinquish the package to the nearest Fedex pickup location.

**NOTE: DO NOT USE STYRENE PEANUTS, NEWSPAPER, OR OTHER PACKING MATERIALS THAT MAY CONTAMINATE THE SAMPLES. AVOID SMOKING WHILE HANDLING SAMPLERS.**

## II. Contents

A. This Field Kit contains the components needed for a **45**-point soil-gas survey, plus **2** trip blanks (labeled **Trip-1 and Trip-2**, not to be opened), **4** extra Samplers for use in the event of breakage or accidental contamination, and **4** extra transport vials provided in case a Sampler Vial breaks during retrieval. **Do not open bags until deployment.**

<u>Code/Item</u>	<u>Quantity</u>
(1) PASSIVE SOIL-GAS SAMPLERS (Orange labels)	49
(2) TRIP BLANKS (Blue labels)	2
(3) EXTRA TRANSPORT VIALS (Green labels)	4
(4) SAMPLING CAPS (in container)	50
(5) CAP STORAGE CONTAINERS	1
(6) GAUZE CLOTHS	55
(7) 3" x 4" PLASTIC SAMPLER BAGS (for return shipment of samples)	60
(8) 12" LENGTHS OF PIPE	49
(9) 12" x 12" PLASTIC RETURN SHIPMENT BAG	3
(10) WIRE CUTTERS	1
(11) PIPE CUTTER	1
(12) VISE GRIPS	1
(13) TAPPING DOWEL	1
(14) FEDEX RETURN LABEL	1

B. In addition to the materials found in the kit, field teams will need:

- NITRILE GLOVES
- CLEAN TOWEL
- HAMMER
- ELECTRIC ROTARY HAMMER DRILL WITH:
  - ½"-DIAMETER BIT WITH AT LEAST 36 INCHES OF CUTTING LENGTH and
  - 1¼" to 1½" DIAMETER BIT WITH AT LEAST 12 INCHES OF CUTTING LENGTH
- PIPE WRENCH (to dislodge drill bits should they become stuck)
- BALL-POINT PEN and CLIPBOARD
- PIN FLAGS, WOODEN STAKES, or OTHER LOCATION MARKERS
- SMALL SCREWDRIVER or SCRATCH AWL
- FLAGGING TAPE
- BOX OF ALUMINUM FOIL

C. Additional materials necessary only for deployment through asphalt or concrete:

**Note: Do not use pre-mixed patching compounds. They contain solvents.**

- DRY CONCRETE MORTAR MIX and ASSOCIATED EQUIPMENT (for temporary patching of the sample holes) including:
  - SMALL PAIL, WATER, SMALL PLASTIC PUTTY KNIFE
  - CHISEL or SCREWDRIVER (to remove the temporary patch)
  - ASPHALT COLD PATCH or CEMENT (for final repair of the sample holes)

### III. Instructions

#### A. GENERAL:

Deployment and retrieval of Samplers requires only one person. Separate step-by-step procedures are detailed below for sampling through vegetation or bare soils and areas covered by asphalt, concrete, or gravel. **Keep exposure of sample cartridges to ambient air to a minimum.**

**Note: Do not deploy Samplers within 10 feet of a monitoring well, penetrometer, hypopunch shaft, or other intrusive sampling apparatus that potentially creates a preferential pathway for gases.**

**REMEMBER: TRIP BLANKS ARE TO REMAIN CLOSED.**

#### B. SAMPLER DEPLOYMENT:

##### **Duplicates:**

Duplicate analysis can be performed on/for any field sample because each sampler contains two sets of adsorbent cartridges. To select field sample duplicates, note them on the CoC; a second (co-located) sample is not necessary. Add a second entry to the CoC with the field sample ID followed by "D" or "Dup" (i.e., PSG-08-Dup is the duplicate for PSG-08). There is an additional per sample charge for analysis of any duplicates.

##### Vegetation or Bare Soils:

1. At each survey point, clear vegetation as necessary and, using a hammer drill and drill bit, create a 1¼"- to 1½"-diameter hole approximately 12-14 inches deep. Using the ½" drill bit, extend the hole to a three-foot depth.

**Note: In areas of very organic topsoil or landscaped areas (i.e., mulched areas, gardens, etc.) it is imperative to get beneath the organic soil layer to the underlying soil below.**

2. When the holes have been drilled, take a 12-inch length of 1"-diameter metal pipe and lower it into the sample hole, being careful not to touch the inside of the pipe. Any portion of pipe above grade is cut flush with the ground surface, using the pipe cutter. With the tapping dowel and a hammer, push or tap the pipe one inch into the base of the drilled hole (see **attached figure**).
3. Remove one of the Samplers (a glass vial containing *two sets of hydrophobic* adsorbent cartridges) and unwind the retrieval wire wrapped around it. Holding the capped end of the vial in one hand, pull the wire tight (to straighten it) with the other hand. Remove the solid cap on the Sampler Vial and replace it with a Sampling Cap (a one-hole cap with a screen meshing insert). Place the solid cap in the Field Kit.

**Note: At each sampling location, verify that the (black) sampling cap is on the vial before installing the Sampler.**

4. Lower the Sampler, open-end down, into the metal pipe approximately four inches so that the retrieval wire sticks out of the hole. Cover the open end of the pipe with a balled up **wad** of aluminum foil, pressing it tightly on top of the pipe with the tapping dowel. Next, cover the hole to grade with local soils or sand, leaving the end of the wire exposed above the surface of the ground. Use a hammer to collapse the soils above the Sampler. **Coil the wire and lay it flat on the ground surface.** Place the solid cap in the Cap Storage Container. Mark the sample location with a pin flag or wooden stake.

5. Close the Field Kit. Record on the Chain-of-Custody: (a) sample-point number; (b) date/time of emplacement (to nearest minute); (c) other relevant information (*e.g.*, soil type, vegetation, proximity to potential source areas). Mark the sample location and take detailed notes (*i.e.*, compass bearings and distances from fixed reference points).
6. Move to next location.
7. After installing all field samples; place the Trip Blank in a 3" x 4" Sampler Bag. Store the bagged Trip Blank in the "Return Shipment" bags until retrieval, with one (1) Trip Blank in each Return Shipment bag.

Concrete, Asphalt, or Gravel Covered Areas:

1. At each survey point, drill a 1¼"- to 1½"-diameter hole through the asphalt/concrete/gravel to bare soil using a rotary hammer drill or comparable equipment. This hole should be approximately 12-14 inches deep.

**Note:** When one person is performing fieldwork, it is often more efficient to drill all sample-point holes before beginning Sampler deployment.

2. When the hole through concrete/asphalt/gravel has been completed, using the ½" drill bit, extend the hole to a three-foot depth. Next, take a 12-inch length of 1"-diameter metal pipe and lower it into the sample hole, being careful not to touch the inside of the pipe. Any portion of pipe above grade is cut flush with the ground surface, using the pipe cutter. Use the tapping dowel and a hammer to push or tap the pipe one inch into the base of the drilled hole (see **attached figure**).
3. Remove one of the Samplers (a glass vial containing *two sets of hydrophobic* adsorbent cartridges) and unwind the retrieval wire wrapped around it. Holding the capped end of the vial in one hand, pull the wire tight (to straighten it) with the other hand. Remove the white solid cap on the Sampler Vial. Place the solid cap in the Field Kit and screw a black Sampling Cap (a one-hole cap with a screen meshing insert) on the vial.

**Note:** At each sampling location, verify that the (black) sampling cap is on the vial before installing the Sampler.

4. Lower the Sampler, open-end down, into the metal pipe approximately four inches.

If sampling through asphalt or concrete, bend the end of the wire over the top of the pipe so that the coil of wire hangs over the top and outside of the pipe. Next, plug the top of the hole with a wad of aluminum foil. Using the tapping dowel, push down the aluminum foil so it forms a seal on the metal pipe and rests ¼" below the surfacing. Cover the hole to grade with a ¼" **thick** concrete patch. [**Note:** A ¼" thick patch is all that is required. If it is thicker it will be difficult to remove during retrieval.] Next, place the solid cap in the Cap Storage Container.

If sampling through gravel, extend the retrieval wire out of the pipe and plug the pipe with a wad of aluminum foil. Using the tapping dowel, push down the aluminum foil so it forms a seal on the metal pipe. Bend the wire over the aluminum foil plug and while the wire is extended out of the hole, cover the aluminum foil with local soil or sand. **Coil the wire and lay it flat on the ground surface.** Next, place the solid cap in the Cap Storage Container.

If a hole deeper than 12 inches is created, it will be necessary to use more than one wad of aluminum foil. In these situations, extend the wire out of the pipe. While holding onto the wire, plug the top of the pipe and hole loosely with as many wads as needed. Before inserting the last wad of foil, bend the wire so it rests below the uppermost wad of foil. This will make it easier to retrieve the Sampler.

5. Close the Field Kit. Record on the Chain-of-Custody: (a) sample-point number; (b) date and time of emplacement (to nearest minute); (c) type of surfacing and approximate thickness; and (d) other relevant information (*e.g.*, surfacing material, proximity to potential source areas). Mark the sample location and take detailed notes (*i.e.*, compass bearings and distances from fixed reference points).
6. Move to next location.
7. After installing all field samples place the Trip Blank in a 3" x 4" Sampler Bag. Store the bagged Trip Blank in the "Return Shipment" bags until retrieval, with one (1) Trip Blank in each Return Shipment bag.

C. SAMPLER RETRIEVAL:

**Prior to retrieving samples, seal each Trip Blank in a 3"x4" Sampler Bag, and place the bagged Trip Blank in a separate larger bag marked "Return Shipment Bag." Include one trip blank with each Return Shipment Bag. Stow the sampler blocks, with the Transport vials and extra samplers, in the lower compartment of the kit. The sampler blocks are to be returned to BEACON's lab along with the samples.**

**Duplicates:**

Duplicate analysis can be performed on/for any field sample because each sampler contains two sets of adsorbent cartridges. To select field sample duplicates, note them on the CoC; a second (co-located) sample is not necessary. Add a second entry to the CoC with the field sample ID followed by "D" or "Dup" (*i.e.*, PSG-08-Dup is the duplicate for PSG-08). There is an additional per sample charge for analysis of any duplicates.

Vegetation or Bare Soils:

1. At each sample location open the Field Kit and place it and the wire cutters within easy reach. Remove a square of gauze cloth and place it and a clean towel on the open Kit. Remove a solid cap from the Cap Storage Container and place it on the Kit.
2. Remove the aluminum foil plug, using vise grips and the scratch awl or small screwdriver and retrieve the Sampler from the hole.
3. Hold the Sampler upright; clean the sides of the vial with the clean towel (especially close to the Sampling Cap). Remove the Sampling Cap, cut all wire from the vial with the wire cutters, and clean the vial threads completely with the gauze cloth.

**Note: Remove all wire to ensure a tight cap seal on the vial.**

4. Firmly screw the solid cap on the Sampler Vial and clean the vial completely with the gauze cloth. Use a **ballpoint pen** to record the sample number, corresponding to the sample location, on the cap's label.

**Note: Do not use a Sharpie marker.**

5. Place the sealed and labeled Sampler Vial in the smaller 3" x 4" plastic Sampler Bag and record the sample number on the white block using a ballpoint pen. Then place the individually bagged and labeled sampler into the larger bag labeled "Return Shipment Bag."

**Note: Each Sampler must be individually bagged and placed in a Return Shipment Bag with approximately 23 samplers and one trip blank per bag. If you know or suspect some sample(s) collected unusually high levels of contaminants, separately place these sample(s) in the extra bag provided.**

6. Record on the Chain-of-Custody: (a) date and time of retrieval (to nearest minute); and (b) any other relevant information.
7. After all samples have been retrieved, verify that the caps on each Sampler are sealed tightly and that the seals on the Sampler Bags are closed. Verify all Samplers are stored in the Return Shipment Bag, containing an adsorbent pak. Seal the Return Shipment Bag and place it in the upper tray of the Field Kit, and place the provided tools and materials in the lower compartment of the Field Kit.

**Note: Do not return use sampling caps, used pipe, or the wire with the Field Kit as they may bias the samplers. Return *all* the other materials and equipment (blocks, extra samplers, tools, containers, etc.).**

8. Cover sampling holes to grade with surrounding soil, as necessary.
9. Affix the tug-tight custody seal to the latch on the Field Kit. Pack kit in its original cardboard shipping container, attach the provided return label, and relinquish the package to the nearest Fedex pickup location.

Asphalt, Concrete, or Gravel:

1. At each sample point covered by gravel, clear away the soil or sand to expose the aluminum-foil plug. For those locations covered by asphalt or concrete, use a small chisel and hammer to remove the concrete patch to expose the aluminum foil.
2. Next, open the Field Kit; place it and the wire cutters within easy reach. Remove a square of gauze cloth and place it and a clean towel on the open Kit. Remove a solid cap from the Cap Storage Container and place it on the Kit, also.
3. While securely holding onto the retrieval wire, remove the aluminum-foil plug, using the scratch awl or small screwdriver, as necessary. Holding the Sampler upright, clean the sides of the vial with the clean towel (especially close to the Sampling Cap). Remove the Sampling Cap, cut all the wire from the vial with the wire cutters, and clean the vial threads completely with gauze cloth.

**Note: Remove all wire to ensure a tight cap seal on the vial.**

4. Firmly screw the solid cap on the Sampler Vial and clean the vial completely with the gauze cloth. With a **ballpoint pen** record the sample number, corresponding to the sample location, on the cap's label.

**Note: Do not use a Sharpie marker.**



5. Place the sealed and labeled Sampler Vial in the smaller 3" x 4" plastic Sampler Bag and record the sample number on the white block using a ballpoint pen. Then place the individually bagged and labeled sampler into the larger bag labeled "Return Shipment Bag."

**Note: Each Sampler must be individually bagged and placed in a Return Shipment Bag with approximately 23 samplers and one trip blank per bag. If you know or suspect some sample(s) collected unusually high levels of contaminants, separately place these sample(s) in the extra bag provided.**

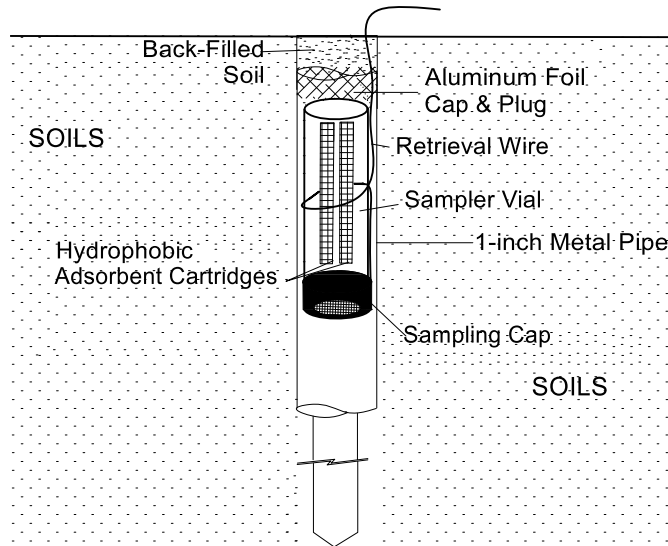
6. Record on the Chain-of-Custody: (a) date and time of retrieval (to nearest minute); and (b) any other relevant information.
7. After all samples have been retrieved, verify that the caps on each Sampler are sealed tightly and that the seals on the Sampler Bags are closed. Verify that all Samplers are stored in the Return Shipment Bag, containing an adsorbent pak. Seal the Return Shipment Bag and place it in the upper tray of the Field Kit, and place the provided tools and materials in the lower compartment of the Field Kit.

**Note: Do not return used sampling caps, used pipe, or the wire with the Field Kit as they may bias the samplers. Return *all* the other materials and equipment (blocks, extra samplers, tools, containers, *etc.*).**

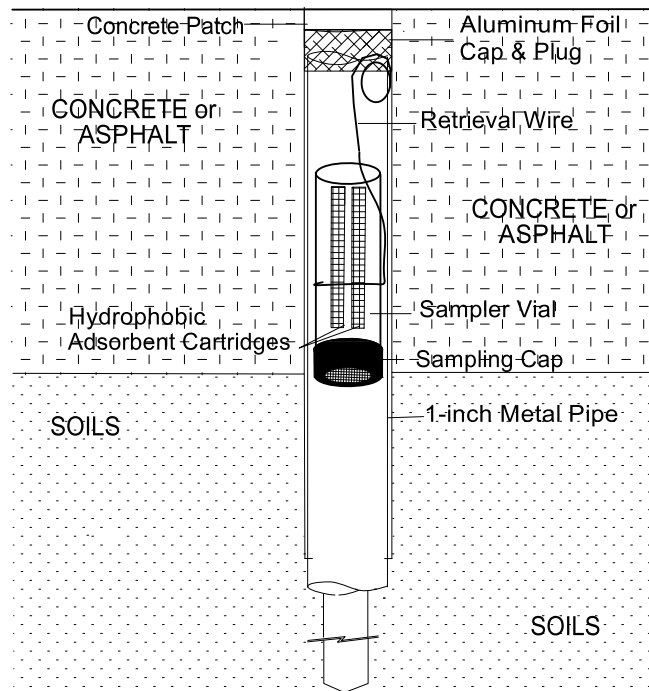
8. Fill sampling holes to grade with an asphalt cold patch or cement.
9. Affix the tug-tight custody seal to the latch on the Field Kit. Pack kit in its original cardboard shipping container, attach the provided return label, and relinquish the package to the nearest Fedex pickup location.

## BEACON'S PASSIVE SOIL-GAS SAMPLER

### DEPLOYMENT THROUGH SOILS



### DEPLOYMENT THROUGH AN ASPHALT/CONCRETE CAP



Please, remember:

- Remove all wire from the sampler vials
- Label, seal, and individually bag Soil-Gas Samplers in 3”x4” bags provided, with all the samples in the larger bag marked “Return Shipment” with approximately 30 Samplers plus a Trip Blank in each bag
- Include the signed and dated Chain-of-Custody Form
- Return all tools (including wooden blocks and all containers)
- Return any unused pipe
- Use the blue numbered tug tight custody seal on the front of the Kit
- Only use approved packaging materials (*i.e.*, no Styrofoam peanuts, etc.)
- E-mail a CAD version of the Site Map showing soil-gas sample locations to Ryan Schneider at BEACON ([ryan.schneider@beacon-usa.com](mailto:ryan.schneider@beacon-usa.com))
- Notify BEACON’s laboratory that samples are being returned

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**THE FOLLOWING TOOLS WERE INCLUDED WITH YOUR FIELD KIT(S).**

**PLEASE CHECK-OFF (√) IN THE COLUMN BELOW TO VERIFY THAT  
THE TOTAL NUMBER OF EACH TOOL HAS BEEN  
PACKAGED IN THE KIT(S) FOR RETURN SHIPMENT.**

<b>Tool</b>	<b>Number</b>	<b>Returned</b>
TAPPING DOWELS	1	
WIRE CUTTERS	1	
PIPE CUTTER	1	
WISE GRIPS	1	
UNUSED METAL PIPE		

Please return any unused pipes included in the Field Kit; however,  
do not return any of the used pipes.

**THANK YOU!**

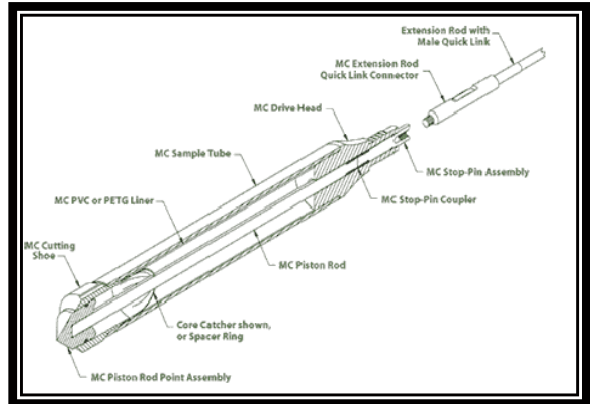
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## **Hydraulic Driven Probe Sampling**

## FIELD METHODOLOGY FOR: HYDRAULIC DRIVEN PROBES

### Using Macro-Core®, Large Bore® or Dual Tube® Hydraulic Driven Probes

Direct push exploratory borings are “drilled” with a Hydraulic Driven Probe drill rig, which hydraulically vibrates and drives steel probes into the soil. This sampling technology has the ability for either continuous or discrete sampling using a 4-foot long nickel-plated sampling probes fitted with clear acetate liners. During coring operations, the sampler remains open as it is driven into undisturbed soil over its entire 4-foot sampling interval.



The soil cores are logged by an experienced geologist using the Unified Soil Classification System (USCS), noting in particular, the lithology of the soils, moisture content, and any unusual odor or discoloration. Relatively undisturbed soil samples are obtained for both lithologic logging and laboratory analysis. A portion of individual soil cores are stored in a sealed plastic bags for field screening of hydrocarbons and/or volatile organic compounds by a Photoionization Detector (PID). Vapor readings in parts per million (ppm) are recorded on the boring logs. The PID is also used during drilling for monitoring the work area for site safety.

All drilling equipment is decontaminated prior to arriving on-site to prevent possible transfer of contamination from another site. The sampling probe and all other soil sampling equipment are thoroughly cleaned between each borehole by washing in a Liqui-Nox or Alconox solution followed by a double rinsing with distilled water to prevent the transfer of contamination.

After drilling, all exploratory boreholes are grouted with continuous pour neat cement grout from the bottom of the borehole to the ground surface.

#### Samples Targeted for Laboratory Analysis:

Soil samples targeted for laboratory analysis are immediately cut from the acetate sample liner and protected at both ends with Teflon tape, sealed with non-reactive caps, taped, labeled, placed in a plastic ZipLock baggie, and immediately stored in an insulated container chilled to a temperature of 4 degree Celsius. Soil samples selected for Volatile Organic Compound (VOC) analysis will follow field preservation protocols according to EPA Method 5035, as described in DTSC's *Guidance Document for the Implementation of United States Environmental Protection Agency Method 5035:*



*Methodologies for Collection, Preservation, Storage, and Preparation of Soils to be Analyzed for Volatile Organic Compounds*, dated November 2004.

Groundwater samples are collected after temporary PVC casing is placed in the hole and at least one borehole volume is purged and groundwater is visually observed to be free of sediment. Relatively representative groundwater samples are either: 1) collected with a peristaltic pump and dedicated polyethylene tubing and dispensed directly into containers specifically prepared for the analyses (groundwater encountered at depths of less than 27 feet bgs) or 2) collected by mechanically lifting groundwater through a clean stainless steel foot valve and dedicated polyethylene and dispensed directly into containers specifically prepared for the analyses (groundwater encountered at depths greater than 27 feet bgs where a peristaltic pump cannot be used). Samples being analyzed for dissolved metals will be preserved and acidified by the testing laboratory following their receipt of samples. Once collected, groundwater sample containers are placed in ZipLock bags and are stored in an insulated container chilled to a temperature of 4 degree Celsius.

All samples are transported in chilled coolers to a State-certified laboratory under appropriate chain-of-custody documents. Soil samples that may be put on "hold" for potential future analysis will be stored in a dedicated sample freezer, be frozen, and stored under chain-of-custody documentation. Hold times will be confirmed with the testing laboratory to ensure that potential analysis of any "hold" samples will be analyzed within the laboratory hold times.

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## **Active Soil Gas Sampling**

## Field Methodology for Active Soil Gas Sampling

Active soil gas / soil vapor (we use the terms interchangeably) sampling is conducted in general accordance with the procedures outlined in the CalEPA's/DTSC/LARWQCB/SFRWQCB *Advisory – Active Soil Gas Investigations* (July 2015)<sup>1</sup>, and the DTSC/CalEPA's final *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (October 2011). We use the terms soil gas and soil vapor interchangeably. The field methodology for active soil gas/vapor sampling entails:

- Constructing Soil Gas Sample Points/Probes
- Setting up the sampling and leak testing equipment; and
- Soil Vapor Sampling

### Constructing & Decommissioning Soil Vapor Sample Points/Probes

Soil vapor sample points can be either semi-permanent or temporary. A semi-permanent sample probe is constructed with a secure surface completion consisting of bolt-down flush-mounted well vault so it can be reused. A field geologist or engineer logs the soils encountered using the Unified Soil Classification System (USCS), unless the site is already well characterized geologically.

Shallow Soil Vapor Probe: The soil vapor/gas probe is installed to the target sampling depth via a Geo-Probe drill rig, which hydraulically drives and vibrates steel probes into the soil. The soil is cored out using a 4-foot long nickel-plated sampling barrel fitted with a clear acetate liner. During coring operations, the sample barrel remains open as it is driven into undisturbed soil over its entire 4-foot sampling interval. Alternatively, the soil gas probe borehole can be created via a hollow stem auger or hand auger. Shallow soil gas / soil vapor sample depths



Shallow soil vapor probe installation via GeoProbe drill rig

will be no less than 5 feet deep (if possible) in order to avoid breakthrough of ambient air from the surface. Shallow and deeper soil gas points are constructed in a similar manner. Once the probe hole is cored to the desired sample depth, a length of 3/16-inch inner diameter Teflon or Nylaflo tubing (Teflon is preferred, especially if testing for naphthalene) having a porous media tip (i.e., ceramic filter stone) attached at the down-hole end of the tubing is inserted through a

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<sup>1</sup>: [https://www.dtsc.ca.gov/SiteCleanup/upload/VI\\_ActiveSoilGasAdvisory\\_FINAL.pdf](https://www.dtsc.ca.gov/SiteCleanup/upload/VI_ActiveSoilGasAdvisory_FINAL.pdf)



1-inch diameter tremie-pipe that is extended down to 6-inches above the base of the borehole. The sample tubing end with the ceramic filter stone is also placed approximately 6-inches above the base of the borehole. A minimum of a one-foot sand pack is emplaced at the base of the borehole (the grain size of the sand pack is larger than the grain size of the adjacent formation), followed by at least one foot of dry granular bentonite. The probe tip is emplaced midway within the sand pack. While the sand pack and granular bentonite is slowly added to the borehole, the tremie-pipe is correspondingly pulled out of the boring (with the bottom of the tremie pipe periodically “tapping” the top surface of sand pack and granular bentonite to ensure that no bridging occurs). The remainder of the borehole is sealed to the ground surface with hydrated bentonite gel for temporary points or neat cement mixed with 1% – 5% bentonite, which are both pre-mixed at the ground surface; this ensures a sound surface seal and/or seal between multi-depth nested probe sample intervals.

Decommissioning Shallow Soil Vapor Points: Following sample collection the vapor probe is properly decommissioned by one of the following regulatory approved techniques:

- The sample tubing is completely removed from the ground surface (if possible) allowing the bentonite gel slurry to flow into the small vertical void thereby sealing the borehole. Subsequently, approximately 6-inches of bentonite slurry is removed below the ground surface and the surface is patched to match the existing grade.
- The sample tubing is properly destroyed by injecting neat cement grout into the tubing via a syringe. The volume of grout injected into the tubing is monitored to ensure that the entire tubing is completely sealed. Subsequently, the tubing is cut off approximately 6-inches below the ground surface and the surface is patched to match the existing grade.
- The vapor probe is properly destroyed by over-drilling the sample tubing and annular seal material. Once the material has been removed, the subsequent borehole is filled with neat cement grout to within about 6-inches of the ground surface and the surface is patched to match the existing grade.

Sub-Slab Soil Vapor Probe: The emplacement of the sub-slab soil vapor sampling probe is conducted by coring a 1 to 1-1/4-inch diameter hole via an electric hand rotary hammer drill through the slab foundation. The sub-slab borehole is advanced approximately 3 to 4-inches below the base of the slab and into the sub-slab material. Once the probe hole is cored to the desired sample depth a length of 3/16–inch inner diameter Teflon or Nylaflo or inert, cleaned metal tubing with a porous media tip (i.e., ceramic filter stone) attached at the down-hole end of the tubing is inserted into the borehole. The probe tip is emplaced 1 to 2-inches above the base of the bore hole. A minimum of 2 to 4-inches of sand pack is emplaced at the base of the borehole followed by at least 1 to 2-inches of dry granular bentonite to above the base of the

slab. The probe tip is emplaced midway within the sand pack. The remainder of the borehole is sealed to the ground surface with hydrated bentonite for temporary points or hydrated bentonite followed by neat cement for permanent points to ensure a sound surface seal. Permanent points have a flush-mount inert metal fitting for providing a good seal when connecting the above-ground sample tubing and for plugging between sampling events. Following sample collection from a temporary probe the sample tubing is removed and the subsequent void is sealed with hydrated bentonite and the surface is patched with concrete.

### **Purging**

Prior to soil gas sample collection, a purge volume or “dead space volume” will be calculated in order to purge ambient or stagnant air from the sampling system to ensure that collected samples are representative.

Per the procedures outlined in the CalEPA’s Advisory, a default of three purge volumes will be extracted prior to sampling. The purge volume consists of approximately three system volumes (i.e. tubing and annular space) of soil gas, while capturing the purge effluent. One system volume is calculated by summing the inner diameter (id) tubing volume (i.e., id area times the length of tubing) and the annular pore space volume (i.e., area of the borehole times the length of sand pack and granular bentonite surrounding the ceramic filter stone tip times an estimated sand-pack pore space volume of 33.8%). The purge rate will be conducted at the same rate soil gas is sampled (approximately 200-mL/min flow). We note that Cal-EPA guidance recommends purging or sampling at rates between 100 to 200-mL/min for soil vapor points at all depths, including sub-slab vapor points, to limit air stripping and to prevent ambient air from diluting the sample. After the specific pre-determined purge volume is removed, a soil vapor/gas sample is collected for laboratory analyses for the site-specific target compounds as discussed below.

### **Sample Collection**

Before purging the appropriate “dead space volume” from the soil vapor/gas probe, the probe seal is allowed to cure and the subsurface is allowed to equilibrate for the appropriate amount of time per the procedures outlined in the CalEPA’s Advisory. We note that an equilibration time of 2-hours is required for soil vapor/gas points installed via a direct push drill rig and 48-hours for soil vapor/gas points installed via a hollow stem auger drill rig, hand-auger, or an electric hand rotary hammer drill. Once the appropriate “dead space volume” has been purged, the sample tubing will be attached to a laboratory prepared soil vapor manifold and 1 or 6-liter Summa canister or sorbent sampling media depending on required laboratory analysis. We note that the choice between using a 1-L or 6-L canister is typically dependent on the purpose of the site investigation. However, for soil vapor/gas samples collected at a depth

less than 5-feet, including sub-slab vapor points, a 1-L canister should be used to avoid excessive air removal and to prevent ambient air from entering the sub-surface and sample. When sampling for ambient indoor air, a 6-L canister is nearly always required because of the extremely low detection limits required to meet Indoor Air ESLs. For soil vapor collection, a 1-L canister may be all that is necessary if the site is known to contain high concentrations of contaminants of interest that make achieving low detection limits a secondary concern. In those cases, only a small volume of the 1-L collected is necessary for analysis of both the TO-15 and the TO-3 compounds. However, if a site does not have historical data indicating that it is significantly contaminated, or if multiple analytical runs become necessary to achieve reporting limit/CHHSL/ESL goals, it becomes critical to have a larger initial volume of collected sample. A 6-L volume allows the laboratory to provide the lowest possible detection for the compounds of interest for full list TO-15 while providing enough volume for the additional analysis of individual compounds that may require dilution to bring them within the instrument calibration range. The 6-L volume will provide enough residual sample to analyze for additional contaminants (e.g., EPA Method TO-3) and/or fixed Gases (ASTM D1946) including Helium, which may be used as a tracer or leak check compound in the investigation. A consultation with the selected testing laboratory will be conducted for each investigation to ensure that appropriate sample volumes are obtained.

The following sample collection procedures are followed for each sample collection media:

- The Summa canisters will be supplied by the analytical laboratory with a vacuum of approximately 30-inches of mercury and outfitted with a 200-mL/min flow control valve. The tubing will be connected to the soil vapor manifold and Summa canister using airtight stainless-steel or brass fittings. The flow control valve will then be opened slowly to draw the vapor sample from the target depth.
- Laboratory sorbent media and canister with a vacuum of approximately 30-inches of mercury and outfitted with a 200- mL/min flow control valve or sampling pump (10 to 200 mL/min) will be supplied by the analytical laboratory. The tubing will be connected to the sorbent media sample tube, upstream of the vacuum canister/sample pump/syringe using airtight stainless-steel or brass fittings. The sample



**Sample collection with Summa canisters**



**Sample collection with sorbent tube**

vacuum canister/ pump/syringe will then be activated to draw approximately 1 to 3-L of sample volume for TO-17 analysis from the target depth at a flow rate of 200- mL/min or less per sorbent media sample tube manufacturer and/or laboratory guidelines.

Schematic diagrams of sample configurations for the different sampling media (i.e., Summa canister and sorbent media) and probe construction (i.e., shallow soil and sub-slab) are included as attachments 1, 2, and 3 of this field methodology.

### **Leak Detection Monitoring**

Leak detection monitoring will be conducted during soil gas sampling by applying a tracer compound (i.e., isopropyl alcohol [isopropanol, IPA] or helium) to the sample system connections and bentonite seal. Specifically, a shroud will be used to encapsulate the entire system (i.e., the sample canister and surface bentonite seal) so as to trap the applied tracer compound. The leak detection monitoring configuration is graphically depicted on attachments 1, 2, and 3 of this field methodology. The concentration of the leak check compound within



**Monitoring leak check compound within shroud during sample collection**

the shroud will be monitored periodically throughout the sample collection period with a PID calibrated to the specific tracer gas compound and these values will be recorded into the field notes. The tracer compound (i.e., IPA or helium) is maintained within the shroud at a concentration of approximately two (2) orders of magnitude higher than the detection limit of the field meter used throughout the duration of sample collection. The testing laboratory will screen for this compound in all analyzed air samples when IPA is used. If helium is used the laboratory can screen for this compound if collected in Summa canisters, or the sample effluent after passing through the sorbent media will be field screened for the presence of the helium.

Prior to purging and sample collection, a “shut-in test” is performed to check the above-ground sample system connections downstream from the top of the soil vapor/gas probe, including the laboratory provided sample manifold (“sample train”). The “shut-in test” is completed in the field by closing off all valves to the laboratory provided soil vapor manifold and the soil vapor/gas probe tubing, and subsequently opening the valve to the connected “purge” Summa canister to increase the vacuum in the sample train to a minimum of 30-inches of mercury, at which point the purge canister is closed. Then the vacuum gauge on the sample train is observed for at least 1-minute to confirm it remains stable.

### **Low Flow Sampling Conditions**

A low flow sampling condition is characterized as a condition where the sample probe cannot sustain a flow rate of 100-mL/min for more than three minutes while maintaining an applied vacuum of less than 100-inches of water (or 7.4-inches of mercury). The vacuum applied to the sample probe will be measured and monitored via a vacuum gauge installed between the sample probe and the sample collection flow regulator. If the vacuum measured within the sample probe exceeds 100-inches of water during dead space volume purging, then one of the following sample collection procedures will be employed:

- If the lithology observed during sample probe installation indicates potential for low permeability / low flow conditions a representative soil sample at the soil vapor sample depth will be collected and put on ice for possible laboratory analysis.
- If extreme low flow conditions are observed during purging, excessive time will be required to purge and collect a sample. We will contact the regulating agency to confirm collecting a purge volume approximating one dead space volume (i.e., volume of the sample tube plus the volume of the sand pack pore space and granular bentonite pore space surrounding the probe tip) will be evacuated prior to sample collection. Sample collection will proceed until the sample probe vacuum equals 100-inches of water. The sample system will then be closed off to allow the probe to relax and equilibrate. Over time the vacuum will eventually dissipate, the rate of which can be monitored via an in-line vacuum gauge installed as described above. Once the vacuum in the sample probe has dissipated, sampling will resume as described above. This process will be repeated until an adequate sample volume has been obtained for the required laboratory analysis.
- If during low flow sampling as stated above, the sample system when closed off to allow the probe to relax and equilibrate the probe vacuum does not reduce by 13.5 inches of water (1 inch of mercury) in 3-minutes, soil vapor sampling will cease and the previously collected soil sample will be submitted to the laboratory for potential analysis for site specific constituents.

### **Sample Storage and Transport**

Once collected, the soil gas samples are then transported to a State-certified laboratory under appropriate chain-of-custody documentation. Sorbent media are wrapped in foil and placed in individual zip-lock type bags and immediately placed in a chilled cooler (chilled to 4 degrees Celsius) for storage and transport to the testing laboratory. Summa canisters are placed in laboratory provided cardboard boxes and stored at ambient temperature for transport to the testing laboratory.

PORTABLE SHROUD (30-GALLON POLY CONTAINER)

1/8" - I.D. TEFLON TUBING  
(CONTINUOUS FROM DOWN HOLE DIFFUSER TIP TO SUMMA MANIFOLD)

FLOW CONTROL REGULATOR  
BUILT INTO MANIFOLD  
(PRE-SET BY LAB)

1/8" - I.D. TEFLON TUBING  
(SUPPLIED BY LAB)

MANIFOLD

6 L OR 1 L  
SUMMA  
CANISTER

PURGE  
SUMMA  
CANISTER

QUICK CONNECT FOR:  
CHARGING SHROUD w/ He OR IPA &  
PORT FOR He OR IPA METER PROBE INSERTION

He DELIVERY HOSE

He TANK DELIVERY  
REGULATOR

He  
TANK

GROUND SURFACE

5.5'  
DEEP  
BOREHOLE

5'  
SAMPLE  
DEPTH

3.5' THICK BENTONITE SLURRY

1' GRANULAR BENTONITE

POROUS STONE DIFFUSER

1' SAND ANNULUS

2" - DIA.

## EXPLANATION

⊗ GATE OR SIMILAR VALVE

⊞ BALL VALVE FOR He DELIVERY CONTROL

⓪ VACUUM GAUGE

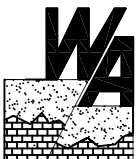
Ⓟ PRESSURE GAUGE

■ STAINLESS STEEL OR BRASS CONNECTIONS  
CONSISTING OF COMPRESSION FITTINGS  
(NUT, BODY & FERRULE) w/ TEFLON TAPE

He HELIUM GAS

IPA ISOPROPYL ALCOHOL

AJOBIA\_Forms01\_WHA Forms-&MOCs03-Tables-and Figures\CAD-drawings\SVP\_schematic.dwg\_SUMMA\_TEMP



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www.weber-hayes.com

## Temporary Soil Vapor Probe Construction Details

Figure  
B

PORTABLE SHROUD (30-GALLON POLY CONTAINER)

1/8" - I.D. TEFLON TUBING  
(CONTINUOUS FROM SURFACE COMPLETION TO SUMMA MANIFOLD)

FLOW CONTROL REGULATOR  
BUILT INTO MANIFOLD  
(PRE-SET BY LAB)

MANIFOLD  
1/8" - I.D. TEFLON TUBING  
(SUPPLIED BY LAB)

SEMI-PERMANENT SAMPLE  
POINTS INCLUDE FLUSH  
SURFACE COMPLETION  
(BRASS OR S.S. FITTINGS)

6 L OR 1 L  
SUMMA  
CANISTER

PURGE  
SUMMA  
CANISTER

QUICK CONNECT FOR:  
CHARGING SHROUD w/ He OR IPA &  
PORT FOR He OR IPA METER PROBE INSERTION

He DELIVERY HOSE  
He TANK DELIVERY  
REGULATOR  
He TANK

SLAB SURFACE

1/8" - I.D.  
TEFLON TUBING

NEAT CEMENT

CONCRETE SLAB  
(THICKNESS VARIES)

SLAB BASE

HYDRATED BENTONITE

SUB-SLAB  
MATERIAL

1" GRANULAR BENTONITE

SUB-SLAB MATERIAL





TOTAL  
BORE-  
HOLE  
DEPTH

2"  
SAMPLE  
DEPTH  
BENEATH  
SLAB

1.25" - DIA.

POROUS STONE DIFFUSER

# EXPLANATION

-  GATE OR SIMILAR VALVE
-  BALL VALVE FOR PURGE / SAMPLING CONTROL & He DELIVERY CONTROL
-  PRESSURE GAUGE
-  STAINLESS STEEL OR BRASS CONNECTIONS CONSISTING OF COMPRESSION FITTINGS (NUT, BODY & FERRULE) w/ TEFLON TAPE
- He HELIUM GAS
- IPA ISOPROPYL ALCOHOL

AJOBIA\_Forms\01\_WHA Forms-&MOCs\03-Tables-and Figures\CAD-drawings\SVP\_schematic.dwg\_SUB-SLAB\_PERM



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## Semi-Permanent, Sub-Slab Soil Vapor Probe Construction Details

Figure  
A

**Appendix B**

**State Certified Laboratory Reports**

- **Soil and Groundwater Analysis – Pace Analytical Laboratory**
- **Soil Vapor Analysis – BC Laboratories, Inc.**



---

**Soil and Groundwater Analysis**

—

**Pace Analytical**

April 10, 2020

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Weber, Hayes & Associates - CA

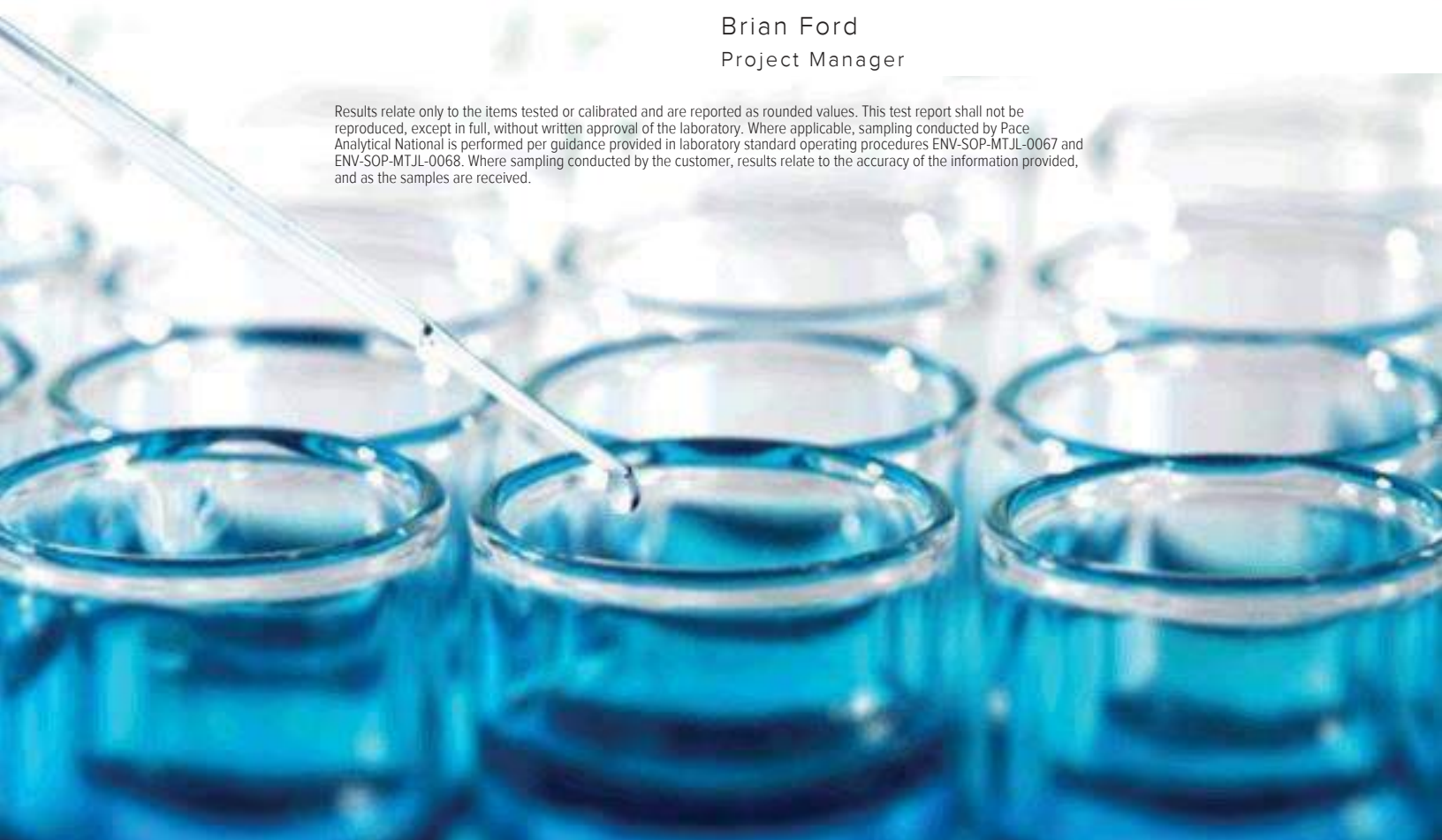
Sample Delivery Group: L1205565  
Samples Received: 04/03/2020  
Project Number: 2t009  
Description: Capitola Rd  
Site: 1541 CAPITOLA RD SANTA CRUZ  
Report To: Ryan Nyberg  
120 Westgate Drive  
Watsonville, CA 95076

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.





<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>7</b>
<b>Sr: Sample Results</b>	<b>8</b>
GW-1 L1205565-03	8
GW-2 L1205565-04	10
GW-3 L1205565-05	12
GW-4 L1205565-06	14
GW-5 L1205565-07	16
GW-6 L1205565-08	18
SS-2-D3 L1205565-09	20
SS-2-D4.5 L1205565-10	22
SS-2-D12 L1205565-11	24
SS-3-D3 L1205565-12	26
SS-3-D6 L1205565-13	28
SS-3-D12 L1205565-14	30
GW-1-D3 L1205565-15	32
GW-1-D7 L1205565-16	34
GW-1-D12 L1205565-17	36
GW-1-D24 L1205565-18	38
GW-3-D3 L1205565-19	40
GW-3-D6 L1205565-20	42
GW-3-D12 L1205565-21	44
GW-3-D19 L1205565-22	46
GW-4-D3 L1205565-23	48
GW-4-D6 L1205565-24	50
GW-4-D12 L1205565-25	52
GW-4-D23 L1205565-26	54
GW-5-D3 L1205565-27	56
GW-5-D6 L1205565-28	58
GW-5-D12 L1205565-29	60
GW-5-D27 L1205565-30	62
<b>Qc: Quality Control Summary</b>	<b>64</b>
<b>Total Solids by Method 2540 G-2011</b>	<b>64</b>
<b>Volatile Organic Compounds (GC/MS) by Method 8260B</b>	<b>68</b>
<b>Gl: Glossary of Terms</b>	<b>83</b>
<b>Al: Accreditations &amp; Locations</b>	<b>84</b>
<b>Sc: Sample Chain of Custody</b>	<b>85</b>

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

# SAMPLE SUMMARY

## GW-1 L1205565-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
				Ryan Nyberg	04/01/20 00:00	04/03/20 08:30
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455716	1	04/04/20 19:02	04/04/20 19:02	JCP	Mt. Juliet, TN

1  
Cp

## GW-2 L1205565-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
				Ryan Nyberg	04/02/20 00:00	04/03/20 08:30
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455716	1	04/04/20 19:22	04/04/20 19:22	JCP	Mt. Juliet, TN

2  
Tc

3  
Ss

4  
Cn

5  
Sr

## GW-3 L1205565-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
				Ryan Nyberg	04/02/20 00:00	04/03/20 08:30
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455716	1	04/04/20 19:42	04/04/20 19:42	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1458412	10	04/09/20 21:03	04/09/20 21:03	ADM	Mt. Juliet, TN

6  
Qc

7  
Gl

8  
Al

## GW-4 L1205565-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
				Ryan Nyberg	04/02/20 00:00	04/03/20 08:30
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455716	1	04/04/20 20:02	04/04/20 20:02	JCP	Mt. Juliet, TN

9  
Sc

## GW-5 L1205565-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
				Ryan Nyberg	04/02/20 00:00	04/03/20 08:30
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455716	1	04/04/20 20:22	04/04/20 20:22	JCP	Mt. Juliet, TN

## GW-6 L1205565-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
				Ryan Nyberg	04/02/20 00:00	04/03/20 08:30
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455716	1	04/04/20 20:42	04/04/20 20:42	JCP	Mt. Juliet, TN

## SS-2-D3 L1205565-09 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
				Ryan Nyberg	04/01/20 00:00	04/03/20 08:30
Total Solids by Method 2540 G-2011	WG1456965	1	04/08/20 21:52	04/08/20 22:08	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 04:56	BMB	Mt. Juliet, TN

## SS-2-D4.5 L1205565-10 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Collected by				Collected date/time	Received date/time	
				Ryan Nyberg	04/01/20 00:00	04/03/20 08:30
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 05:15	BMB	Mt. Juliet, TN

# SAMPLE SUMMARY

## SS-2-D12 L1205565-11 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/01/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 05:34	BMB	Mt. Juliet, TN

- 1  
Cp
- 2  
Tc
- 3  
Ss
- 4  
Cn
- 5  
Sr
- 6  
Qc
- 7  
Gl
- 8  
Al
- 9  
Sc

## SS-3-D3 L1205565-12 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/01/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 05:53	BMB	Mt. Juliet, TN

## SS-3-D6 L1205565-13 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/01/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 06:12	BMB	Mt. Juliet, TN

## SS-3-D12 L1205565-14 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/01/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 06:31	BMB	Mt. Juliet, TN

## GW-1-D3 L1205565-15 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/01/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 06:50	BMB	Mt. Juliet, TN

## GW-1-D7 L1205565-16 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/01/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 07:09	BMB	Mt. Juliet, TN

## GW-1-D12 L1205565-17 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/01/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 07:28	BMB	Mt. Juliet, TN

# SAMPLE SUMMARY

## GW-1-D24 L1205565-18 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/01/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/01/20 00:00	04/05/20 07:47	BMB	Mt. Juliet, TN

- 1  
Cp
- 2  
Tc
- 3  
Ss
- 4  
Cn
- 5  
Sr
- 6  
Qc
- 7  
Gl
- 8  
Al
- 9  
Sc

## GW-3-D3 L1205565-19 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456966	1	04/08/20 21:31	04/08/20 21:48	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 08:06	BMB	Mt. Juliet, TN

## GW-3-D6 L1205565-20 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 08:25	BMB	Mt. Juliet, TN

## GW-3-D12 L1205565-21 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 08:45	BMB	Mt. Juliet, TN

## GW-3-D19 L1205565-22 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 09:04	BMB	Mt. Juliet, TN

## GW-4-D3 L1205565-23 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 09:23	BMB	Mt. Juliet, TN

## GW-4-D6 L1205565-24 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 09:42	BMB	Mt. Juliet, TN

# SAMPLE SUMMARY

## GW-4-D12 L1205565-25 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 10:01	BMB	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## GW-4-D23 L1205565-26 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 10:20	BMB	Mt. Juliet, TN

## GW-5-D3 L1205565-27 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455717	1	04/02/20 00:00	04/05/20 10:39	BMB	Mt. Juliet, TN

## GW-5-D6 L1205565-28 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455731	1	04/02/20 00:00	04/04/20 22:47	BMB	Mt. Juliet, TN

## GW-5-D12 L1205565-29 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456967	1	04/08/20 21:14	04/08/20 21:27	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455731	1	04/02/20 00:00	04/04/20 23:06	BMB	Mt. Juliet, TN

## GW-5-D27 L1205565-30 Solid

Collected by  
Ryan Nyberg

Collected date/time  
04/02/20 00:00

Received date/time  
04/03/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456968	1	04/08/20 19:21	04/08/20 19:42	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455731	1	04/02/20 00:00	04/04/20 23:25	BMB	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Collected date/time: 04/01/20 00:00

L1205565

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	14.0	J	10.0	50.0	1	04/04/2020 19:02	WG1455716
Acrolein	U	J4	8.87	50.0	1	04/04/2020 19:02	WG1455716
Acrylonitrile	U		1.87	10.0	1	04/04/2020 19:02	WG1455716
Benzene	0.354	J	0.331	1.00	1	04/04/2020 19:02	WG1455716
Bromobenzene	U	J4	0.352	1.00	1	04/04/2020 19:02	WG1455716
Bromodichloromethane	U		0.380	1.00	1	04/04/2020 19:02	WG1455716
Bromoform	U		0.469	1.00	1	04/04/2020 19:02	WG1455716
Bromomethane	U		0.866	5.00	1	04/04/2020 19:02	WG1455716
n-Butylbenzene	U		0.361	1.00	1	04/04/2020 19:02	WG1455716
sec-Butylbenzene	U		0.365	1.00	1	04/04/2020 19:02	WG1455716
tert-Butylbenzene	U		0.399	1.00	1	04/04/2020 19:02	WG1455716
Carbon tetrachloride	U		0.379	1.00	1	04/04/2020 19:02	WG1455716
Chlorobenzene	U		0.348	1.00	1	04/04/2020 19:02	WG1455716
Chlorodibromomethane	U		0.327	1.00	1	04/04/2020 19:02	WG1455716
Chloroethane	U		0.453	5.00	1	04/04/2020 19:02	WG1455716
Chloroform	U		0.324	5.00	1	04/04/2020 19:02	WG1455716
Chloromethane	0.428	J	0.276	2.50	1	04/04/2020 19:02	WG1455716
2-Chlorotoluene	U		0.375	1.00	1	04/04/2020 19:02	WG1455716
4-Chlorotoluene	U		0.351	1.00	1	04/04/2020 19:02	WG1455716
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/04/2020 19:02	WG1455716
1,2-Dibromoethane	U		0.381	1.00	1	04/04/2020 19:02	WG1455716
Dibromomethane	U		0.346	1.00	1	04/04/2020 19:02	WG1455716
1,2-Dichlorobenzene	U		0.349	1.00	1	04/04/2020 19:02	WG1455716
1,3-Dichlorobenzene	U		0.220	1.00	1	04/04/2020 19:02	WG1455716
1,4-Dichlorobenzene	U		0.274	1.00	1	04/04/2020 19:02	WG1455716
Dichlorodifluoromethane	U		0.551	5.00	1	04/04/2020 19:02	WG1455716
1,1-Dichloroethane	U		0.259	1.00	1	04/04/2020 19:02	WG1455716
1,2-Dichloroethane	U		0.361	1.00	1	04/04/2020 19:02	WG1455716
1,1-Dichloroethene	U		0.398	1.00	1	04/04/2020 19:02	WG1455716
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/04/2020 19:02	WG1455716
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/04/2020 19:02	WG1455716
1,2-Dichloropropane	U		0.306	1.00	1	04/04/2020 19:02	WG1455716
1,1-Dichloropropene	U		0.352	1.00	1	04/04/2020 19:02	WG1455716
1,3-Dichloropropane	U		0.366	1.00	1	04/04/2020 19:02	WG1455716
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/04/2020 19:02	WG1455716
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/04/2020 19:02	WG1455716
2,2-Dichloropropane	U		0.321	1.00	1	04/04/2020 19:02	WG1455716
Di-isopropyl ether	U		0.320	1.00	1	04/04/2020 19:02	WG1455716
Ethylbenzene	U		0.384	1.00	1	04/04/2020 19:02	WG1455716
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/04/2020 19:02	WG1455716
Isopropylbenzene	U		0.326	1.00	1	04/04/2020 19:02	WG1455716
p-Isopropyltoluene	U		0.350	1.00	1	04/04/2020 19:02	WG1455716
2-Butanone (MEK)	U		3.93	10.0	1	04/04/2020 19:02	WG1455716
Methylene Chloride	U		1.00	5.00	1	04/04/2020 19:02	WG1455716
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/04/2020 19:02	WG1455716
Methyl tert-butyl ether	U		0.367	1.00	1	04/04/2020 19:02	WG1455716
Naphthalene	U		1.00	5.00	1	04/04/2020 19:02	WG1455716
n-Propylbenzene	U		0.349	1.00	1	04/04/2020 19:02	WG1455716
Styrene	U		0.307	1.00	1	04/04/2020 19:02	WG1455716
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/04/2020 19:02	WG1455716
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/04/2020 19:02	WG1455716
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/04/2020 19:02	WG1455716
Tetrachloroethene	4.64		0.372	1.00	1	04/04/2020 19:02	WG1455716
Toluene	0.614	J	0.412	1.00	1	04/04/2020 19:02	WG1455716
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/04/2020 19:02	WG1455716
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/04/2020 19:02	WG1455716

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.319	1.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
Trichloroethene	U		0.398	1.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
Trichlorofluoromethane	U		1.20	5.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
1,2,3-Trichloropropane	U	J4	0.807	2.50	1	04/04/2020 19:02	<a href="#">WG1455716</a>
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
1,3,5-Trimethylbenzene	U	J4	0.387	1.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
Vinyl chloride	U		0.259	1.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
Xylenes, Total	U		1.06	3.00	1	04/04/2020 19:02	<a href="#">WG1455716</a>
(S) Toluene-d8	113			80.0-120		04/04/2020 19:02	<a href="#">WG1455716</a>
(S) 4-Bromofluorobenzene	108			77.0-126		04/04/2020 19:02	<a href="#">WG1455716</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/04/2020 19:02	<a href="#">WG1455716</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Acrolein	U	J4	8.87	50.0	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Acrylonitrile	U		1.87	10.0	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Benzene	U		0.331	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Bromobenzene	U	J4	0.352	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Bromodichloromethane	U		0.380	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Bromoform	U		0.469	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Bromomethane	U		0.866	5.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
n-Butylbenzene	U		0.361	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
sec-Butylbenzene	U		0.365	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
tert-Butylbenzene	U		0.399	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Carbon tetrachloride	U		0.379	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Chlorobenzene	U		0.348	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Chlorodibromomethane	U		0.327	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Chloroethane	U		0.453	5.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Chloroform	U		0.324	5.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Chloromethane	U		0.276	2.50	1	04/04/2020 19:22	<a href="#">WG1455716</a>
2-Chlorotoluene	U		0.375	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
4-Chlorotoluene	U		0.351	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2-Dibromoethane	U		0.381	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Dibromomethane	U		0.346	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Dichlorodifluoromethane	U		0.551	5.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,1-Dichloroethane	U		0.259	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2-Dichloroethane	U		0.361	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,1-Dichloroethene	U		0.398	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2-Dichloropropane	U		0.306	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,1-Dichloropropene	U		0.352	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,3-Dichloropropane	U		0.366	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
2,2-Dichloropropane	U		0.321	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Di-isopropyl ether	0.417	J	0.320	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Ethylbenzene	U		0.384	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Isopropylbenzene	U		0.326	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
p-Isopropyltoluene	U		0.350	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
2-Butanone (MEK)	U		3.93	10.0	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Methylene Chloride	U		1.00	5.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Methyl tert-butyl ether	U		0.367	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Naphthalene	U		1.00	5.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
n-Propylbenzene	U		0.349	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Styrene	U		0.307	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Tetrachloroethene	161		0.372	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Toluene	U		0.412	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.319	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Trichloroethene	U		0.398	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Trichlorofluoromethane	U		1.20	5.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2,3-Trichloropropane	U	J4	0.807	2.50	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
1,3,5-Trimethylbenzene	U	J4	0.387	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Vinyl chloride	U		0.259	1.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
Xylenes, Total	U		1.06	3.00	1	04/04/2020 19:22	<a href="#">WG1455716</a>
(S) Toluene-d8	116			80.0-120		04/04/2020 19:22	<a href="#">WG1455716</a>
(S) 4-Bromofluorobenzene	104			77.0-126		04/04/2020 19:22	<a href="#">WG1455716</a>
(S) 1,2-Dichloroethane-d4	99.5			70.0-130		04/04/2020 19:22	<a href="#">WG1455716</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Acrolein	U	J4	8.87	50.0	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Acrylonitrile	U		1.87	10.0	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Benzene	U		0.331	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Bromobenzene	U	J4	0.352	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Bromodichloromethane	U		0.380	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Bromoform	U		0.469	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Bromomethane	U		0.866	5.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
n-Butylbenzene	U		0.361	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
sec-Butylbenzene	U		0.365	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
tert-Butylbenzene	U		0.399	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Carbon tetrachloride	U		0.379	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Chlorobenzene	U		0.348	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Chlorodibromomethane	U		0.327	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Chloroethane	U		0.453	5.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Chloroform	U		0.324	5.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Chloromethane	U		0.276	2.50	1	04/04/2020 19:42	<a href="#">WG1455716</a>
2-Chlorotoluene	U		0.375	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
4-Chlorotoluene	U		0.351	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2-Dibromoethane	U		0.381	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Dibromomethane	U		0.346	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Dichlorodifluoromethane	U		0.551	5.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,1-Dichloroethane	U		0.259	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2-Dichloroethane	U		0.361	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,1-Dichloroethene	U		0.398	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2-Dichloropropane	U		0.306	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,1-Dichloropropene	U		0.352	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,3-Dichloropropane	U		0.366	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
2,2-Dichloropropane	U		0.321	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Di-isopropyl ether	U		0.320	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Ethylbenzene	U		0.384	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Isopropylbenzene	U		0.326	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
p-Isopropyltoluene	U		0.350	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
2-Butanone (MEK)	U		3.93	10.0	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Methylene Chloride	U		1.00	5.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Methyl tert-butyl ether	U		0.367	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Naphthalene	U		1.00	5.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
n-Propylbenzene	U		0.349	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Styrene	U		0.307	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Tetrachloroethene	136		3.72	10.0	10	04/09/2020 21:03	<a href="#">WG1458412</a>
Toluene	U		0.412	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.319	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Trichloroethene	U		0.398	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Trichlorofluoromethane	U		1.20	5.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2,3-Trichloropropane	U	J4	0.807	2.50	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
1,3,5-Trimethylbenzene	U	J4	0.387	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Vinyl chloride	U		0.259	1.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
Xylenes, Total	U		1.06	3.00	1	04/04/2020 19:42	<a href="#">WG1455716</a>
(S) Toluene-d8	115			80.0-120		04/04/2020 19:42	<a href="#">WG1455716</a>
(S) Toluene-d8	106			80.0-120		04/09/2020 21:03	<a href="#">WG1458412</a>
(S) 4-Bromofluorobenzene	105			77.0-126		04/04/2020 19:42	<a href="#">WG1455716</a>
(S) 4-Bromofluorobenzene	94.4			77.0-126		04/09/2020 21:03	<a href="#">WG1458412</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/04/2020 19:42	<a href="#">WG1455716</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		04/09/2020 21:03	<a href="#">WG1458412</a>

- 1 Cp
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Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Acrolein	U	J4	8.87	50.0	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Acrylonitrile	U		1.87	10.0	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Benzene	U		0.331	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Bromobenzene	U	J4	0.352	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Bromodichloromethane	U		0.380	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Bromoform	U		0.469	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Bromomethane	U		0.866	5.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
n-Butylbenzene	U		0.361	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
sec-Butylbenzene	U		0.365	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
tert-Butylbenzene	U		0.399	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Carbon tetrachloride	U		0.379	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Chlorobenzene	U		0.348	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Chlorodibromomethane	U		0.327	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Chloroethane	U		0.453	5.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Chloroform	U		0.324	5.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Chloromethane	U		0.276	2.50	1	04/04/2020 20:02	<a href="#">WG1455716</a>
2-Chlorotoluene	U		0.375	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
4-Chlorotoluene	U		0.351	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2-Dibromoethane	U		0.381	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Dibromomethane	U		0.346	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Dichlorodifluoromethane	U		0.551	5.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,1-Dichloroethane	U		0.259	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2-Dichloroethane	U		0.361	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,1-Dichloroethene	U		0.398	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2-Dichloropropane	U		0.306	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,1-Dichloropropene	U		0.352	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,3-Dichloropropane	U		0.366	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
2,2-Dichloropropane	U		0.321	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Di-isopropyl ether	U		0.320	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Ethylbenzene	U		0.384	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Isopropylbenzene	U		0.326	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
p-Isopropyltoluene	U		0.350	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
2-Butanone (MEK)	U		3.93	10.0	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Methylene Chloride	U		1.00	5.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Methyl tert-butyl ether	U		0.367	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Naphthalene	U		1.00	5.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
n-Propylbenzene	U		0.349	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Styrene	U		0.307	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Tetrachloroethene	9.54		0.372	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Toluene	U		0.412	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.319	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Trichloroethene	U		0.398	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Trichlorofluoromethane	U		1.20	5.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2,3-Trichloropropane	U	J4	0.807	2.50	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
1,3,5-Trimethylbenzene	U	J4	0.387	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Vinyl chloride	U		0.259	1.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
Xylenes, Total	U		1.06	3.00	1	04/04/2020 20:02	<a href="#">WG1455716</a>
(S) Toluene-d8	117			80.0-120		04/04/2020 20:02	<a href="#">WG1455716</a>
(S) 4-Bromofluorobenzene	107			77.0-126		04/04/2020 20:02	<a href="#">WG1455716</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		04/04/2020 20:02	<a href="#">WG1455716</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 04/02/20 00:00

L1205565

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Acrolein	U	J4	8.87	50.0	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Acrylonitrile	U		1.87	10.0	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Benzene	U		0.331	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Bromobenzene	U	J4	0.352	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Bromodichloromethane	U		0.380	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Bromoform	U		0.469	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Bromomethane	U		0.866	5.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
n-Butylbenzene	U		0.361	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
sec-Butylbenzene	U		0.365	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
tert-Butylbenzene	U		0.399	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Carbon tetrachloride	U		0.379	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Chlorobenzene	U		0.348	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Chlorodibromomethane	U		0.327	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Chloroethane	U		0.453	5.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Chloroform	U		0.324	5.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Chloromethane	U		0.276	2.50	1	04/04/2020 20:22	<a href="#">WG1455716</a>
2-Chlorotoluene	U		0.375	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
4-Chlorotoluene	U		0.351	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2-Dibromoethane	U		0.381	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Dibromomethane	U		0.346	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Dichlorodifluoromethane	U		0.551	5.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,1-Dichloroethane	U		0.259	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2-Dichloroethane	U		0.361	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,1-Dichloroethene	U		0.398	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2-Dichloropropane	U		0.306	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,1-Dichloropropene	U		0.352	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,3-Dichloropropane	U		0.366	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
2,2-Dichloropropane	U		0.321	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Di-isopropyl ether	U		0.320	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Ethylbenzene	U		0.384	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Isopropylbenzene	U		0.326	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
p-Isopropyltoluene	U		0.350	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
2-Butanone (MEK)	U		3.93	10.0	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Methylene Chloride	U		1.00	5.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Methyl tert-butyl ether	U		0.367	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Naphthalene	U		1.00	5.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
n-Propylbenzene	U		0.349	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Styrene	U		0.307	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Tetrachloroethene	16.9		0.372	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Toluene	U		0.412	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.319	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Trichloroethene	U		0.398	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Trichlorofluoromethane	U		1.20	5.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2,3-Trichloropropane	U	J4	0.807	2.50	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
1,3,5-Trimethylbenzene	U	J4	0.387	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Vinyl chloride	U		0.259	1.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
Xylenes, Total	U		1.06	3.00	1	04/04/2020 20:22	<a href="#">WG1455716</a>
(S) Toluene-d8	112			80.0-120		04/04/2020 20:22	<a href="#">WG1455716</a>
(S) 4-Bromofluorobenzene	107			77.0-126		04/04/2020 20:22	<a href="#">WG1455716</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/04/2020 20:22	<a href="#">WG1455716</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Acrolein	U	J4	8.87	50.0	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Acrylonitrile	U		1.87	10.0	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Benzene	U		0.331	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Bromobenzene	U	J4	0.352	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Bromodichloromethane	U		0.380	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Bromoform	U		0.469	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Bromomethane	U		0.866	5.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
n-Butylbenzene	U		0.361	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
sec-Butylbenzene	U		0.365	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
tert-Butylbenzene	U		0.399	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Carbon tetrachloride	U		0.379	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Chlorobenzene	U		0.348	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Chlorodibromomethane	U		0.327	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Chloroethane	U		0.453	5.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Chloroform	U		0.324	5.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Chloromethane	U		0.276	2.50	1	04/04/2020 20:42	<a href="#">WG1455716</a>
2-Chlorotoluene	U		0.375	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
4-Chlorotoluene	U		0.351	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2-Dibromoethane	U		0.381	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Dibromomethane	U		0.346	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2-Dichlorobenzene	U		0.349	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,3-Dichlorobenzene	U		0.220	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,4-Dichlorobenzene	U		0.274	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Dichlorodifluoromethane	U		0.551	5.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,1-Dichloroethane	U		0.259	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2-Dichloroethane	U		0.361	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,1-Dichloroethene	U		0.398	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
trans-1,2-Dichloroethene	U		0.396	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2-Dichloropropane	U		0.306	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,1-Dichloropropene	U		0.352	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,3-Dichloropropane	U		0.366	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
cis-1,3-Dichloropropene	U		0.418	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
trans-1,3-Dichloropropene	U		0.419	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
2,2-Dichloropropane	U		0.321	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Di-isopropyl ether	U		0.320	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Ethylbenzene	U		0.384	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Hexachloro-1,3-butadiene	U		0.256	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Isopropylbenzene	U		0.326	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
p-Isopropyltoluene	U		0.350	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
2-Butanone (MEK)	U		3.93	10.0	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Methylene Chloride	U		1.00	5.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Methyl tert-butyl ether	U		0.367	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Naphthalene	U		1.00	5.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
n-Propylbenzene	U		0.349	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Styrene	U		0.307	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Tetrachloroethene	192		0.372	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Toluene	U		0.412	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2,3-Trichlorobenzene	U		0.230	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2,4-Trichlorobenzene	U		0.355	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.319	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,1,2-Trichloroethane	U		0.383	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Trichloroethene	0.403	J	0.398	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Trichlorofluoromethane	U		1.20	5.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2,3-Trichloropropane	U	J4	0.807	2.50	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2,4-Trimethylbenzene	U		0.373	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,2,3-Trimethylbenzene	U		0.321	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
1,3,5-Trimethylbenzene	U	J4	0.387	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Vinyl chloride	U		0.259	1.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
Xylenes, Total	U		1.06	3.00	1	04/04/2020 20:42	<a href="#">WG1455716</a>
(S) Toluene-d8	119			80.0-120		04/04/2020 20:42	<a href="#">WG1455716</a>
(S) 4-Bromofluorobenzene	103			77.0-126		04/04/2020 20:42	<a href="#">WG1455716</a>
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		04/04/2020 20:42	<a href="#">WG1455716</a>

- 1 Cp
- 2 Tc
- 3 Ss
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- 5 Sr
- 6 Qc
- 7 Gl
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- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	04/08/2020 22:08	<a href="#">WG1456965</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0156	0.0285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00216	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Benzene	U		0.000455	0.00114	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Bromobenzene	U		0.00120	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000897	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Bromoform	U		0.00681	0.0285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Bromomethane	U		0.00421	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00437	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00288	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00176	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00123	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000652	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000512	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Chloroethane	U		0.00123	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Chloroform	U		0.000472	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Chloromethane	U		0.00158	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00105	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00129	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00581	0.0285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000598	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Dibromomethane	U		0.00114	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00165	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00194	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00224	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000931	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000655	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000541	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000569	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000785	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00163	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00145	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000797	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00199	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000772	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00174	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000903	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000398	0.00114	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000603	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0145	0.0285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.000982	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00265	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0223	B J	0.0142	0.0285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00756	0.0285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0114	0.0285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000336	0.00114	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Naphthalene	U		0.00355	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00134	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Styrene	U		0.00311	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000569	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000444	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
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- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000768	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Tetrachloroethene	0.00162	J	0.000797	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Toluene	U		0.00142	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000711	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00549	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000313	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00101	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Trichloroethene	U		0.000455	0.00114	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000569	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00581	0.0142	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00132	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00131	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00123	0.00569	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000777	0.00285	1	04/05/2020 04:56	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00544	0.00740	1	04/05/2020 04:56	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 04:56	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	98.6			67.0-138		04/05/2020 04:56	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		04/05/2020 04:56	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.1		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0163	0.0297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00226	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Benzene	U		0.000475	0.00119	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Bromobenzene	U		0.00125	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000937	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Bromoform	U		0.00711	0.0297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Bromomethane	U		0.00440	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00456	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00301	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00184	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00128	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000681	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000535	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Chloroethane	U		0.00128	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Chloroform	U		0.000493	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Chloromethane	U		0.00165	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00109	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00134	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00606	0.0297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000624	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Dibromomethane	U		0.00119	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00172	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00202	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00234	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000972	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000683	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000565	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000594	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000820	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00170	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00151	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000832	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00208	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000806	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00182	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000942	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000416	0.00119	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000630	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00103	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00277	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0308	B	0.0149	0.0297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00789	0.0297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000351	0.00119	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Naphthalene	U		0.00371	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00140	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Styrene	U		0.00324	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000594	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000464	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000802	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Tetrachloroethene	0.00132	J	0.000832	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Toluene	U		0.00149	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000743	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00573	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000327	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00105	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Trichloroethene	U		0.000475	0.00119	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000594	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00606	0.0149	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00138	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00137	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00128	0.00594	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000812	0.00297	1	04/05/2020 05:15	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00568	0.00773	1	04/05/2020 05:15	<a href="#">WG1455717</a>
(S) Toluene-d8	106			75.0-131		04/05/2020 05:15	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	98.5			67.0-138		04/05/2020 05:15	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	94.0			70.0-130		04/05/2020 05:15	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.1		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0147	0.0268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00204	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Benzene	U		0.000430	0.00107	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Bromobenzene	U		0.00113	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000846	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Bromoform	U		0.00642	0.0268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Bromomethane	U		0.00397	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00412	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00272	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00166	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00116	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000615	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000483	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Chloroethane	U		0.00116	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Chloroform	U		0.000446	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Chloromethane	U		0.00149	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.000988	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00121	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00548	0.0268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000564	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Dibromomethane	U		0.00107	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00156	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00183	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00212	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000878	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000617	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000510	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000537	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000741	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00154	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00136	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000752	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00188	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000728	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00164	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000852	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000376	0.00107	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000569	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.000927	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00250	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0160	B J	0.0134	0.0268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00713	0.0268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000317	0.00107	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Naphthalene	U		0.00335	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00127	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Styrene	U		0.00293	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000537	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000419	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000725	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Tetrachloroethene	0.0871		0.000752	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Toluene	U		0.00134	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000671	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00518	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000295	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.000948	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Trichloroethene	U		0.000430	0.00107	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000537	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00548	0.0134	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00125	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00123	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00116	0.00537	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000733	0.00268	1	04/05/2020 05:34	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00513	0.00698	1	04/05/2020 05:34	<a href="#">WG1455717</a>
(S) Toluene-d8	106			75.0-131		04/05/2020 05:34	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	97.8			67.0-138		04/05/2020 05:34	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		04/05/2020 05:34	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.5		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0172	0.0315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00239	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Benzene	U		0.000503	0.00126	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Bromobenzene	U		0.00132	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000991	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Bromoform	U		0.00752	0.0315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Bromomethane	U		0.00466	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00483	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00318	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00195	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00136	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000721	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000566	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Chloroethane	U		0.00136	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Chloroform	U		0.000522	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Chloromethane	U		0.00175	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00116	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00142	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00642	0.0315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000661	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Dibromomethane	U		0.00126	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00182	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00214	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00248	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.00103	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000723	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000598	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000629	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000868	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00180	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00160	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000881	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00220	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000853	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00193	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000998	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000440	0.00126	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000667	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0160	0.0315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00109	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00293	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0488	B	0.0157	0.0315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00835	0.0315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000371	0.00126	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Naphthalene	U		0.00393	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00148	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Styrene	U		0.00343	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000629	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000491	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000849	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Tetrachloroethene	0.0200		0.000881	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Toluene	U		0.00157	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000786	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00606	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000346	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00111	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Trichloroethene	0.00423		0.000503	0.00126	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000629	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00642	0.0157	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00146	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00145	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00136	0.00629	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000859	0.00315	1	04/05/2020 05:53	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00601	0.00818	1	04/05/2020 05:53	<a href="#">WG1455717</a>
(S) Toluene-d8	106			75.0-131		04/05/2020 05:53	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	98.4			67.0-138		04/05/2020 05:53	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		04/05/2020 05:53	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0160	0.0292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00222	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Benzene	U		0.000468	0.00117	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Bromobenzene	U		0.00123	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000922	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Bromoform	U		0.00700	0.0292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Bromomethane	U		0.00433	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00449	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00296	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00181	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00126	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000670	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000526	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Chloroethane	U		0.00126	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Chloroform	U		0.000485	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Chloromethane	U		0.00163	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00108	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00132	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00597	0.0292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000614	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Dibromomethane	U		0.00117	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00170	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00199	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00230	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000957	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000673	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000556	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000585	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000807	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00167	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00149	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000819	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00205	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000793	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00179	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000928	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000409	0.00117	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000620	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0149	0.0292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00101	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00273	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0475	B	0.0146	0.0292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00777	0.0292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000345	0.00117	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Naphthalene	U		0.00365	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00138	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Styrene	U		0.00319	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000585	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000456	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000790	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Tetrachloroethene	0.484		0.000819	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Toluene	U		0.00146	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000731	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00564	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000322	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00103	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Trichloroethene	0.00253		0.000468	0.00117	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000585	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00597	0.0146	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00136	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00135	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00126	0.00585	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000799	0.00292	1	04/05/2020 06:12	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00559	0.00760	1	04/05/2020 06:12	<a href="#">WG1455717</a>
(S) Toluene-d8	106			75.0-131		04/05/2020 06:12	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	96.9			67.0-138		04/05/2020 06:12	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	90.1			70.0-130		04/05/2020 06:12	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00207	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Benzene	U		0.000437	0.00109	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Bromobenzene	U		0.00115	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000860	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Bromoform	U		0.00653	0.0273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Bromomethane	U		0.00404	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00419	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00276	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00169	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00118	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000626	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000491	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Chloroethane	U		0.00118	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Chloroform	U		0.000453	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Chloromethane	U		0.00152	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00100	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00123	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000573	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Dibromomethane	U		0.00109	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00158	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00186	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00215	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000893	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000628	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000519	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000546	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000753	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00156	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00139	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000764	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00191	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000866	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000382	0.00109	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000579	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.000942	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00254	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0247	B J	0.0137	0.0273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00725	0.0273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000322	0.00109	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Naphthalene	U		0.00341	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00129	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Styrene	U		0.00298	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000737	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Tetrachloroethene	0.103		0.000764	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Toluene	U		0.00137	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000683	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00526	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000300	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.000964	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Trichloroethene	U		0.000437	0.00109	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000546	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00557	0.0137	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00127	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00126	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000746	0.00273	1	04/05/2020 06:31	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00522	0.00710	1	04/05/2020 06:31	<a href="#">WG1455717</a>
(S) Toluene-d8	107			75.0-131		04/05/2020 06:31	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	97.4			67.0-138		04/05/2020 06:31	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	93.0			70.0-130		04/05/2020 06:31	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.9		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0169	0.0309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00235	0.0155	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Benzene	U		0.000494	0.00124	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Bromobenzene	U		0.00130	0.0155	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000974	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Bromoform	U		0.00739	0.0309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Bromomethane	U		0.00457	0.0155	1	04/05/2020 06:50	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00475	0.0155	1	04/05/2020 06:50	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00313	0.0155	1	04/05/2020 06:50	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00192	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00133	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000708	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000556	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Chloroethane	U		0.00133	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Chloroform	U		0.000513	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Chloromethane	U		0.00172	0.0155	1	04/05/2020 06:50	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00114	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00140	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00630	0.0309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000649	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Dibromomethane	U		0.00124	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00179	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00210	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00244	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.00101	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000711	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000587	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000618	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000853	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00177	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00157	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000865	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00216	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000838	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00189	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000980	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000433	0.00124	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000655	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0157	0.0309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00107	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00288	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0607	B	0.0155	0.0309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00821	0.0309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000365	0.00124	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Naphthalene	U		0.00386	0.0155	1	04/05/2020 06:50	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00146	0.00618	1	04/05/2020 06:50	<a href="#">WG1455717</a>
Styrene	U		0.00337	0.0155	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000618	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000482	0.00309	1	04/05/2020 06:50	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000834	0.00309	1	04/05/2020 06:50	WG1455717
Tetrachloroethene	0.00213	J	0.000865	0.00309	1	04/05/2020 06:50	WG1455717
Toluene	U		0.00155	0.00618	1	04/05/2020 06:50	WG1455717
1,2,3-Trichlorobenzene	U		0.000773	0.0155	1	04/05/2020 06:50	WG1455717
1,2,4-Trichlorobenzene	U		0.00596	0.0155	1	04/05/2020 06:50	WG1455717
1,1,1-Trichloroethane	U		0.000340	0.00309	1	04/05/2020 06:50	WG1455717
1,1,2-Trichloroethane	U		0.00109	0.00309	1	04/05/2020 06:50	WG1455717
Trichloroethene	U		0.000494	0.00124	1	04/05/2020 06:50	WG1455717
Trichlorofluoromethane	U		0.000618	0.00309	1	04/05/2020 06:50	WG1455717
1,2,3-Trichloropropane	U		0.00630	0.0155	1	04/05/2020 06:50	WG1455717
1,2,4-Trimethylbenzene	U		0.00143	0.00618	1	04/05/2020 06:50	WG1455717
1,2,3-Trimethylbenzene	U		0.00142	0.00618	1	04/05/2020 06:50	WG1455717
1,3,5-Trimethylbenzene	U		0.00133	0.00618	1	04/05/2020 06:50	WG1455717
Vinyl chloride	U		0.000844	0.00309	1	04/05/2020 06:50	WG1455717
Xylenes, Total	U		0.00591	0.00803	1	04/05/2020 06:50	WG1455717
(S) Toluene-d8	106			75.0-131		04/05/2020 06:50	WG1455717
(S) 4-Bromofluorobenzene	97.4			67.0-138		04/05/2020 06:50	WG1455717
(S) 1,2-Dichloroethane-d4	87.6			70.0-130		04/05/2020 06:50	WG1455717

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0162	0.0295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00224	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Benzene	U		0.000472	0.00118	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Bromobenzene	U		0.00124	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000930	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Bromoform	U		0.00705	0.0295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Bromomethane	U		0.00436	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00453	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00298	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00183	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00127	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000676	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000531	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Chloroethane	U		0.00127	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Chloroform	U		0.000490	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Chloromethane	U		0.00164	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00109	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00133	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00602	0.0295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000619	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Dibromomethane	U		0.00118	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00171	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00201	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00232	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000965	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000678	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000560	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000590	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000814	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00169	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00150	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000826	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00206	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000800	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00180	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000935	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000413	0.00118	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000625	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0150	0.0295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00102	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00275	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0438	B	0.0147	0.0295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00783	0.0295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0118	0.0295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000348	0.00118	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Naphthalene	U		0.00368	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00139	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Styrene	U		0.00322	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000590	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000460	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000796	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Tetrachloroethene	0.00500		0.000826	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Toluene	U		0.00147	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000737	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00569	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000324	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00104	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Trichloroethene	U		0.000472	0.00118	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000590	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00602	0.0147	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00137	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00136	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00127	0.00590	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000806	0.00295	1	04/05/2020 07:09	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00564	0.00767	1	04/05/2020 07:09	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 07:09	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	99.7			67.0-138		04/05/2020 07:09	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		04/05/2020 07:09	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.2		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0150	0.0274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00208	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Benzene	U		0.000439	0.00110	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Bromobenzene	U		0.00115	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000864	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Bromoform	U		0.00656	0.0274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Bromomethane	U		0.00406	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00421	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00277	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00170	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00118	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000628	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000493	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Chloroethane	U		0.00118	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Chloroform	U		0.000455	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Chloromethane	U		0.00152	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00101	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00124	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00559	0.0274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000576	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Dibromomethane	U		0.00110	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00159	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00186	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00216	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000897	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000630	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000521	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000548	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000756	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00157	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00139	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000767	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00192	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000743	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00168	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000869	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000384	0.00110	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000581	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.000946	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00255	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0386	B	0.0137	0.0274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00728	0.0274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000323	0.00110	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Naphthalene	U		0.00342	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00129	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Styrene	U		0.00299	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000548	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000428	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000740	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Tetrachloroethene	0.00137	U	0.000767	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Toluene	0.00375	U	0.00137	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000685	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00528	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000301	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.000968	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Trichloroethene	U		0.000439	0.00110	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000548	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00559	0.0137	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00127	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00126	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00118	0.00548	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000749	0.00274	1	04/05/2020 07:28	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00524	0.00713	1	04/05/2020 07:28	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 07:28	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	98.2			67.0-138		04/05/2020 07:28	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	90.6			70.0-130		04/05/2020 07:28	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.2		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0169	0.0308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00234	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Benzene	U		0.000493	0.00123	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Bromobenzene	U		0.00129	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000971	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Bromoform	U		0.00737	0.0308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Bromomethane	U		0.00456	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00473	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00312	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00191	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00133	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000706	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000554	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Chloroethane	U		0.00133	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Chloroform	U		0.000511	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Chloromethane	U		0.00171	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00113	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00139	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00628	0.0308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000647	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Dibromomethane	U		0.00123	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00179	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00209	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00243	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.00101	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000708	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000585	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000616	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000850	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00176	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00156	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000863	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00216	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000835	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00189	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000977	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000431	0.00123	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000653	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0156	0.0308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00106	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00287	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0175	B J	0.0154	0.0308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00818	0.0308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0123	0.0308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000363	0.00123	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Naphthalene	U		0.00384	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00145	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Styrene	U		0.00336	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000616	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000481	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/01/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000832	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Tetrachloroethene	U		0.000863	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Toluene	0.00258	J	0.00154	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000770	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00594	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000339	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00109	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Trichloroethene	U		0.000493	0.00123	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000616	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00628	0.0154	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00143	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00142	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00133	0.00616	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000842	0.00308	1	04/05/2020 07:47	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00589	0.00801	1	04/05/2020 07:47	<a href="#">WG1455717</a>
(S) Toluene-d8	106			75.0-131		04/05/2020 07:47	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	95.4			67.0-138		04/05/2020 07:47	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		04/05/2020 07:47	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	04/08/2020 21:48	<a href="#">WG1456966</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0168	0.0306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00233	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Benzene	U		0.000490	0.00122	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Bromobenzene	U		0.00128	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000964	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Bromoform	U		0.00732	0.0306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Bromomethane	U		0.00453	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00470	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00310	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00190	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00132	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000701	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000551	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Chloroethane	U		0.00132	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Chloroform	U		0.000508	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Chloromethane	U		0.00170	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00113	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00138	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00624	0.0306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000642	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Dibromomethane	U		0.00122	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00177	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00208	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00241	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.00100	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000704	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000581	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000612	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000844	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00175	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00155	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000857	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00214	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000830	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00187	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000970	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000428	0.00122	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Ethylbenzene	0.000929	J	0.000649	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0155	0.0306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00106	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00285	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0322	B	0.0153	0.0306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00813	0.0306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0122	0.0306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000361	0.00122	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Naphthalene	U		0.00382	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00144	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Styrene	U		0.00334	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000612	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000477	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000826	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Tetrachloroethene	U		0.000857	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Toluene	0.0176		0.00153	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000765	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00590	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000337	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00108	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Trichloroethene	U		0.000490	0.00122	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000612	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00624	0.0153	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00142	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00141	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00132	0.00612	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000836	0.00306	1	04/05/2020 08:06	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00585	0.00795	1	04/05/2020 08:06	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 08:06	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	96.7			67.0-138		04/05/2020 08:06	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		04/05/2020 08:06	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.5		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0166	0.0303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00230	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Benzene	U		0.000485	0.00121	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Bromobenzene	U		0.00127	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000956	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Bromoform	U		0.00725	0.0303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Bromomethane	U		0.00449	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00466	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00307	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00188	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00131	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000695	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000546	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Chloroethane	U		0.00131	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Chloroform	U		0.000503	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Chloromethane	U		0.00169	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00112	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00137	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00618	0.0303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000637	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Dibromomethane	U		0.00121	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00176	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00206	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00239	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000992	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000697	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000576	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000606	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000837	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00173	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00154	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000849	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00212	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000822	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00186	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000962	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000424	0.00121	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000643	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00105	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00283	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0198	B J	0.0152	0.0303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00805	0.0303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000358	0.00121	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Naphthalene	U		0.00378	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00143	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Styrene	U		0.00331	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000606	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000473	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000819	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Tetrachloroethene	U		0.000849	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Toluene	0.00192	J	0.00152	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000758	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00585	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000333	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00107	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Trichloroethene	U		0.000485	0.00121	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000606	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00618	0.0152	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00141	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00139	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00131	0.00606	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000828	0.00303	1	04/05/2020 08:25	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00580	0.00788	1	04/05/2020 08:25	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 08:25	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	96.5			67.0-138		04/05/2020 08:25	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	91.8			70.0-130		04/05/2020 08:25	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.2		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0157	0.0287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00218	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Benzene	U		0.000459	0.00115	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Bromobenzene	U		0.00120	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000903	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Bromoform	U		0.00686	0.0287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Bromomethane	U		0.00424	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00440	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00290	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00178	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00124	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000657	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000516	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Chloroethane	U		0.00124	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Chloroform	U		0.000476	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Chloromethane	U		0.00159	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00105	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00130	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00585	0.0287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000602	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Dibromomethane	U		0.00115	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00166	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00195	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00226	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000938	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000659	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000545	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000573	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000791	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00164	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00146	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000802	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00201	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000777	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00175	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000909	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000401	0.00115	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000608	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0146	0.0287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.000989	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00267	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0368	B	0.0143	0.0287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00761	0.0287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000338	0.00115	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Naphthalene	U		0.00358	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00135	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Styrene	U		0.00313	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000573	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000447	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000774	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Tetrachloroethene	U		0.000802	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Toluene	U		0.00143	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000717	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00553	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000315	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00101	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Trichloroethene	U		0.000459	0.00115	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000573	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00585	0.0143	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00133	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00132	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00124	0.00573	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000783	0.00287	1	04/05/2020 08:45	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00548	0.00745	1	04/05/2020 08:45	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 08:45	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	97.6			67.0-138		04/05/2020 08:45	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		04/05/2020 08:45	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.1		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0163	0.0297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00226	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Benzene	U		0.000476	0.00119	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Bromobenzene	U		0.00125	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000937	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Bromoform	U		0.00711	0.0297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Bromomethane	U		0.00440	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00457	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00301	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00184	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00128	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000682	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000535	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Chloroethane	U		0.00128	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Chloroform	U		0.000494	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Chloromethane	U		0.00165	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00109	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00134	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00607	0.0297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000625	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Dibromomethane	U		0.00119	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00173	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00202	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00234	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000973	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000684	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000565	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000595	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000821	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00170	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00151	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000833	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00208	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000807	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00182	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000943	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000416	0.00119	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000631	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00103	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00277	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0429	B	0.0149	0.0297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00790	0.0297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000351	0.00119	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Naphthalene	U		0.00371	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00140	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Styrene	U		0.00325	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000595	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000464	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000803	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Tetrachloroethene	0.00698		0.000833	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Toluene	U		0.00149	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000744	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00573	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000327	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00105	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Trichloroethene	U		0.000476	0.00119	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000595	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00607	0.0149	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00138	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00137	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00128	0.00595	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000813	0.00297	1	04/05/2020 09:04	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00569	0.00773	1	04/05/2020 09:04	<a href="#">WG1455717</a>
(S) Toluene-d8	104			75.0-131		04/05/2020 09:04	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	95.9			67.0-138		04/05/2020 09:04	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		04/05/2020 09:04	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.6		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0172	0.0314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00239	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Benzene	U		0.000503	0.00126	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Bromobenzene	U		0.00132	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000990	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Bromoform	U		0.00752	0.0314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Bromomethane	U		0.00465	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00483	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00318	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00195	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00136	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000720	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000566	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Chloroethane	U		0.00136	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Chloroform	U		0.000522	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Chloromethane	U		0.00175	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00116	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00142	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00641	0.0314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000660	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Dibromomethane	U		0.00126	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00182	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00214	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00248	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.00103	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000723	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000597	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000628	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000867	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00180	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00160	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000880	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00220	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000852	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00192	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000997	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000440	0.00126	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000666	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0160	0.0314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00108	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00293	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0584	B	0.0157	0.0314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00835	0.0314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0126	0.0314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000371	0.00126	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Naphthalene	U		0.00392	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00148	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Styrene	U		0.00343	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000628	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000490	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000848	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Tetrachloroethene	0.0196		0.000880	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Toluene	U		0.00157	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000786	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00606	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000346	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00111	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Trichloroethene	U		0.000503	0.00126	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000628	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00641	0.0157	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00146	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00145	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00136	0.00628	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000859	0.00314	1	04/05/2020 09:23	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00601	0.00817	1	04/05/2020 09:23	<a href="#">WG1455717</a>
(S) Toluene-d8	106			75.0-131		04/05/2020 09:23	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	93.5			67.0-138		04/05/2020 09:23	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		04/05/2020 09:23	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.1		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0201	0.0367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00279	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Benzene	U		0.000588	0.00147	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Bromobenzene	U		0.00154	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.00116	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Bromoform	U		0.00878	0.0367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Bromomethane	U		0.00543	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00564	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00372	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00228	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00159	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000842	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000661	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Chloroethane	U		0.00159	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Chloroform	U		0.000610	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Chloromethane	U		0.00204	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00135	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00166	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00749	0.0367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000771	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Dibromomethane	U		0.00147	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00213	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00250	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00289	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.00120	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000845	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000698	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000734	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.00101	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00210	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00187	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.00103	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00257	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000996	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00225	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.00116	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000514	0.00147	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000779	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0187	0.0367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00127	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00342	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0527	B	0.0184	0.0367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00975	0.0367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0147	0.0367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000433	0.00147	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Naphthalene	U		0.00458	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00173	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Styrene	U		0.00401	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000734	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000573	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000992	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Tetrachloroethene	0.00922		0.00103	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Toluene	U		0.00184	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000918	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00708	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000404	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00130	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Trichloroethene	U		0.000588	0.00147	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000734	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00749	0.0184	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00170	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00169	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00159	0.00734	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Vinyl chloride	U		0.00100	0.00367	1	04/05/2020 09:42	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00702	0.00955	1	04/05/2020 09:42	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 09:42	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	96.3			67.0-138		04/05/2020 09:42	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	91.4			70.0-130		04/05/2020 09:42	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0206	J	0.0147	0.0268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00203	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Benzene	U		0.000428	0.00107	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Bromobenzene	U		0.00112	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000844	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Bromoform	U		0.00640	0.0268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Bromomethane	U		0.00396	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00411	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00271	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00166	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00116	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000614	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000482	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Chloroethane	U		0.00116	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Chloroform	U		0.000444	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Chloromethane	U		0.00149	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.000985	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00121	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00546	0.0268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000562	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Dibromomethane	U		0.00107	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00155	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00182	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00211	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000876	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000616	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000509	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000535	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000739	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00153	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00136	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000750	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00187	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000726	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00164	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000849	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000375	0.00107	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000568	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.000924	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00250	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0255	B J	0.0134	0.0268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00711	0.0268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000316	0.00107	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Naphthalene	U		0.00334	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00126	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Styrene	U		0.00292	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000535	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000418	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000723	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Tetrachloroethene	0.0259		0.000750	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Toluene	0.00908		0.00134	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000669	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000295	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.000946	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Trichloroethene	U		0.000428	0.00107	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000535	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00546	0.0134	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00124	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00116	0.00535	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000731	0.00268	1	04/05/2020 10:01	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00512	0.00696	1	04/05/2020 10:01	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 10:01	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	96.6			67.0-138		04/05/2020 10:01	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		04/05/2020 10:01	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.1		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0146	0.0266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00202	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Benzene	U		0.000425	0.00106	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Bromobenzene	U		0.00112	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.000838	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Bromoform	U		0.00636	0.0266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Bromomethane	U		0.00393	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00408	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00269	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00165	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00115	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000609	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000478	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Chloroethane	U		0.00115	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Chloroform	U		0.000441	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Chloromethane	U		0.00148	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.000978	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00120	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00542	0.0266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000558	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Dibromomethane	U		0.00106	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00154	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00181	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00209	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.000870	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000611	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000505	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000532	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	U		0.000734	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00152	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00135	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000744	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00186	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000721	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00163	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.000843	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000372	0.00106	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000563	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0135	0.0266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.000917	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00248	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0165	B J	0.0133	0.0266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00706	0.0266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000314	0.00106	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Naphthalene	U		0.00332	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00125	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Styrene	U		0.00290	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000532	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000415	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000718	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Tetrachloroethene	0.0934		0.000744	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Toluene	U		0.00133	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000664	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00512	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000292	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.000939	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Trichloroethene	U		0.000425	0.00106	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000532	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00542	0.0133	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00123	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00122	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00115	0.00532	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000726	0.00266	1	04/05/2020 10:20	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00508	0.00691	1	04/05/2020 10:20	<a href="#">WG1455717</a>
(S) Toluene-d8	106			75.0-131		04/05/2020 10:20	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	97.2			67.0-138		04/05/2020 10:20	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		04/05/2020 10:20	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.3		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0175	0.0319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Acrylonitrile	U		0.00243	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Benzene	U		0.000511	0.00128	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Bromobenzene	U		0.00134	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Bromodichloromethane	U		0.00101	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Bromoform	U		0.00764	0.0319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Bromomethane	U		0.00473	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
n-Butylbenzene	U		0.00491	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
sec-Butylbenzene	U		0.00323	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
tert-Butylbenzene	U		0.00198	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Carbon tetrachloride	U		0.00138	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Chlorobenzene	U		0.000732	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Chlorodibromomethane	U		0.000575	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Chloroethane	U		0.00138	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Chloroform	U		0.000530	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Chloromethane	U		0.00178	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
2-Chlorotoluene	U		0.00118	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
4-Chlorotoluene	U		0.00144	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2-Dibromo-3-Chloropropane	U		0.00652	0.0319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2-Dibromoethane	U		0.000671	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Dibromomethane	U		0.00128	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2-Dichlorobenzene	U		0.00185	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,3-Dichlorobenzene	U		0.00217	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,4-Dichlorobenzene	U		0.00252	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Dichlorodifluoromethane	U	J4	0.00104	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,1-Dichloroethane	U		0.000735	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2-Dichloroethane	U		0.000607	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,1-Dichloroethene	U		0.000639	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
cis-1,2-Dichloroethene	0.00189	J	0.000881	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
trans-1,2-Dichloroethene	U		0.00183	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2-Dichloropropane	U	J4	0.00162	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,1-Dichloropropene	U		0.000894	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,3-Dichloropropane	U		0.00224	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
cis-1,3-Dichloropropene	U		0.000866	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
trans-1,3-Dichloropropene	U		0.00195	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
2,2-Dichloropropane	U		0.00101	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Di-isopropyl ether	U		0.000447	0.00128	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Ethylbenzene	U		0.000677	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Hexachloro-1,3-butadiene	U		0.0162	0.0319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Isopropylbenzene	U		0.00110	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
p-Isopropyltoluene	U		0.00298	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
2-Butanone (MEK)	0.0487	B	0.0160	0.0319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Methylene Chloride	U		0.00848	0.0319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
4-Methyl-2-pentanone (MIBK)	U		0.0128	0.0319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Methyl tert-butyl ether	U		0.000377	0.00128	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Naphthalene	U		0.00399	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
n-Propylbenzene	U		0.00151	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Styrene	U		0.00349	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,1,1,2-Tetrachloroethane	U		0.000639	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,1,2,2-Tetrachloroethane	U		0.000498	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000862	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Tetrachloroethene	0.0179		0.000894	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Toluene	U		0.00160	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2,3-Trichlorobenzene	U		0.000798	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2,4-Trichlorobenzene	U		0.00616	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,1,1-Trichloroethane	U		0.000351	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,1,2-Trichloroethane	U		0.00113	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Trichloroethene	0.00309		0.000511	0.00128	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Trichlorofluoromethane	U		0.000639	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2,3-Trichloropropane	U		0.00652	0.0160	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2,4-Trimethylbenzene	U		0.00148	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,2,3-Trimethylbenzene	U		0.00147	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
1,3,5-Trimethylbenzene	U		0.00138	0.00639	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Vinyl chloride	U		0.000873	0.00319	1	04/05/2020 10:39	<a href="#">WG1455717</a>
Xylenes, Total	U		0.00611	0.00830	1	04/05/2020 10:39	<a href="#">WG1455717</a>
(S) Toluene-d8	105			75.0-131		04/05/2020 10:39	<a href="#">WG1455717</a>
(S) 4-Bromofluorobenzene	95.0			67.0-138		04/05/2020 10:39	<a href="#">WG1455717</a>
(S) 1,2-Dichloroethane-d4	89.0			70.0-130		04/05/2020 10:39	<a href="#">WG1455717</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0161	0.0294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Acrylonitrile	U		0.00223	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Benzene	U		0.000470	0.00117	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Bromobenzene	U		0.00123	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Bromodichloromethane	U		0.000926	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Bromoform	U		0.00703	0.0294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Bromomethane	U		0.00435	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
n-Butylbenzene	U		0.00451	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
sec-Butylbenzene	U		0.00297	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
tert-Butylbenzene	U		0.00182	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Carbon tetrachloride	U		0.00127	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Chlorobenzene	U		0.000673	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Chlorodibromomethane	U		0.000529	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Chloroethane	U		0.00127	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Chloroform	U		0.000488	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Chloromethane	U		0.00163	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
2-Chlorotoluene	U		0.00108	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
4-Chlorotoluene	U		0.00133	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2-Dibromo-3-Chloropropane	U		0.00599	0.0294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2-Dibromoethane	U		0.000617	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Dibromomethane	U		0.00117	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2-Dichlorobenzene	U		0.00170	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,3-Dichlorobenzene	U		0.00200	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,4-Dichlorobenzene	U		0.00231	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Dichlorodifluoromethane	U		0.000961	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,1-Dichloroethane	U		0.000676	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2-Dichloroethane	U		0.000558	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,1-Dichloroethene	U		0.000587	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
cis-1,2-Dichloroethene	U		0.000811	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
trans-1,2-Dichloroethene	U		0.00168	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2-Dichloropropane	U		0.00149	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,1-Dichloropropene	U		0.000822	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,3-Dichloropropane	U		0.00206	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
cis-1,3-Dichloropropene	U		0.000797	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
trans-1,3-Dichloropropene	U		0.00180	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
2,2-Dichloropropane	U		0.000932	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Di-isopropyl ether	U		0.000411	0.00117	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Ethylbenzene	U		0.000623	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Hexachloro-1,3-butadiene	U		0.0149	0.0294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Isopropylbenzene	U		0.00101	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
p-Isopropyltoluene	U		0.00274	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
2-Butanone (MEK)	0.0204	<b>B J</b>	0.0147	0.0294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Methylene Chloride	U		0.00780	0.0294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
4-Methyl-2-pentanone (MIBK)	U		0.0117	0.0294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Methyl tert-butyl ether	U		0.000347	0.00117	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Naphthalene	U		0.00367	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
n-Propylbenzene	U		0.00139	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Styrene	U		0.00321	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,1,1,2-Tetrachloroethane	U		0.000587	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,1,2,2-Tetrachloroethane	U		0.000458	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000793	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Tetrachloroethene	0.164		0.000822	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Toluene	U		0.00147	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2,3-Trichlorobenzene	U		0.000734	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2,4-Trichlorobenzene	U		0.00566	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,1,1-Trichloroethane	U		0.000323	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,1,2-Trichloroethane	U		0.00104	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Trichloroethene	0.000665	J	0.000470	0.00117	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Trichlorofluoromethane	U		0.000587	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2,3-Trichloropropane	U		0.00599	0.0147	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2,4-Trimethylbenzene	U		0.00136	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,2,3-Trimethylbenzene	U		0.00135	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
1,3,5-Trimethylbenzene	U		0.00127	0.00587	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Vinyl chloride	U		0.000802	0.00294	1	04/04/2020 22:47	<a href="#">WG1455731</a>
Xylenes, Total	U		0.00562	0.00764	1	04/04/2020 22:47	<a href="#">WG1455731</a>
(S) Toluene-d8	115			75.0-131		04/04/2020 22:47	<a href="#">WG1455731</a>
(S) 4-Bromofluorobenzene	89.6			67.0-138		04/04/2020 22:47	<a href="#">WG1455731</a>
(S) 1,2-Dichloroethane-d4	89.2			70.0-130		04/04/2020 22:47	<a href="#">WG1455731</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4		1	04/08/2020 21:27	<a href="#">WG1456967</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0153	0.0280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Acrylonitrile	U		0.00213	0.0140	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Benzene	U		0.000448	0.00112	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Bromobenzene	U		0.00118	0.0140	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Bromodichloromethane	U		0.000882	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Bromoform	U		0.00669	0.0280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Bromomethane	U		0.00414	0.0140	1	04/04/2020 23:06	<a href="#">WG1455731</a>
n-Butylbenzene	U		0.00430	0.0140	1	04/04/2020 23:06	<a href="#">WG1455731</a>
sec-Butylbenzene	U		0.00283	0.0140	1	04/04/2020 23:06	<a href="#">WG1455731</a>
tert-Butylbenzene	U		0.00173	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Carbon tetrachloride	U		0.00121	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Chlorobenzene	U		0.000641	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Chlorodibromomethane	U		0.000504	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Chloroethane	U		0.00121	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Chloroform	U		0.000464	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Chloromethane	U		0.00156	0.0140	1	04/04/2020 23:06	<a href="#">WG1455731</a>
2-Chlorotoluene	U		0.00103	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
4-Chlorotoluene	U		0.00126	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,2-Dibromo-3-Chloropropane	U		0.00571	0.0280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,2-Dibromoethane	U		0.000588	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Dibromomethane	U		0.00112	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,2-Dichlorobenzene	U		0.00162	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,3-Dichlorobenzene	U		0.00190	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,4-Dichlorobenzene	U		0.00220	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Dichlorodifluoromethane	U		0.000915	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,1-Dichloroethane	U		0.000643	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,2-Dichloroethane	U		0.000532	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,1-Dichloroethene	U		0.000560	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
cis-1,2-Dichloroethene	U		0.000772	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
trans-1,2-Dichloroethene	U		0.00160	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,2-Dichloropropane	U		0.00142	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,1-Dichloropropene	U		0.000783	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,3-Dichloropropane	U		0.00196	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
cis-1,3-Dichloropropene	U		0.000759	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
trans-1,3-Dichloropropene	U		0.00171	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
2,2-Dichloropropane	U		0.000887	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Di-isopropyl ether	U		0.000392	0.00112	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Ethylbenzene	U		0.000593	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Isopropylbenzene	U		0.000966	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
p-Isopropyltoluene	U		0.00261	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
2-Butanone (MEK)	0.0489	<b>B</b>	0.0140	0.0280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Methylene Chloride	U		0.00743	0.0280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Methyl tert-butyl ether	U		0.000330	0.00112	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Naphthalene	U		0.00349	0.0140	1	04/04/2020 23:06	<a href="#">WG1455731</a>
n-Propylbenzene	U		0.00132	0.00560	1	04/04/2020 23:06	<a href="#">WG1455731</a>
Styrene	U		0.00306	0.0140	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,1,1,2-Tetrachloroethane	U		0.000560	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>
1,1,2,2-Tetrachloroethane	U		0.000436	0.00280	1	04/04/2020 23:06	<a href="#">WG1455731</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000755	0.00280	1	04/04/2020 23:06	WG1455731
Tetrachloroethene	0.0338		0.000783	0.00280	1	04/04/2020 23:06	WG1455731
Toluene	U		0.00140	0.00560	1	04/04/2020 23:06	WG1455731
1,2,3-Trichlorobenzene	U		0.000699	0.0140	1	04/04/2020 23:06	WG1455731
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	04/04/2020 23:06	WG1455731
1,1,1-Trichloroethane	U		0.000308	0.00280	1	04/04/2020 23:06	WG1455731
1,1,2-Trichloroethane	U		0.000988	0.00280	1	04/04/2020 23:06	WG1455731
Trichloroethene	U		0.000448	0.00112	1	04/04/2020 23:06	WG1455731
Trichlorofluoromethane	U		0.000560	0.00280	1	04/04/2020 23:06	WG1455731
1,2,3-Trichloropropane	U		0.00571	0.0140	1	04/04/2020 23:06	WG1455731
1,2,4-Trimethylbenzene	U		0.00130	0.00560	1	04/04/2020 23:06	WG1455731
1,2,3-Trimethylbenzene	U		0.00129	0.00560	1	04/04/2020 23:06	WG1455731
1,3,5-Trimethylbenzene	U		0.00121	0.00560	1	04/04/2020 23:06	WG1455731
Vinyl chloride	U		0.000764	0.00280	1	04/04/2020 23:06	WG1455731
Xylenes, Total	U		0.00535	0.00727	1	04/04/2020 23:06	WG1455731
(S) Toluene-d8	114			75.0-131		04/04/2020 23:06	WG1455731
(S) 4-Bromofluorobenzene	89.2			67.0-138		04/04/2020 23:06	WG1455731
(S) 1,2-Dichloroethane-d4	87.1			70.0-130		04/04/2020 23:06	WG1455731

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.2		1	04/08/2020 19:42	<a href="#">WG1456968</a>

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Acrylonitrile	U		0.00220	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Benzene	U		0.000464	0.00116	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Bromobenzene	U		0.00122	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Bromodichloromethane	U		0.000914	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Bromoform	U		0.00694	0.0290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Bromomethane	U		0.00429	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
n-Butylbenzene	U		0.00446	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
sec-Butylbenzene	U		0.00294	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
tert-Butylbenzene	U		0.00180	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Carbon tetrachloride	U		0.00125	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Chlorobenzene	U		0.000665	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Chlorodibromomethane	U		0.000522	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Chloroethane	U		0.00125	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Chloroform	U		0.000482	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Chloromethane	U		0.00161	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
2-Chlorotoluene	U		0.00107	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
4-Chlorotoluene	U		0.00131	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2-Dibromo-3-Chloropropane	U		0.00592	0.0290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2-Dibromoethane	U		0.000609	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Dibromomethane	U		0.00116	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2-Dichlorobenzene	U		0.00168	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,3-Dichlorobenzene	U		0.00197	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,4-Dichlorobenzene	U		0.00229	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Dichlorodifluoromethane	U		0.000949	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,1-Dichloroethane	U		0.000667	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2-Dichloroethane	U		0.000551	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,1-Dichloroethene	U		0.000580	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
cis-1,2-Dichloroethene	U		0.000801	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
trans-1,2-Dichloroethene	U		0.00166	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2-Dichloropropane	U		0.00147	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,1-Dichloropropene	U		0.000812	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,3-Dichloropropane	U		0.00203	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
cis-1,3-Dichloropropene	U		0.000787	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
trans-1,3-Dichloropropene	U		0.00178	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
2,2-Dichloropropane	U		0.000920	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Di-isopropyl ether	U		0.000406	0.00116	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Ethylbenzene	U		0.000615	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Isopropylbenzene	U		0.00100	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
p-Isopropyltoluene	U		0.00270	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
2-Butanone (MEK)	0.0303	<b>B</b>	0.0145	0.0290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Methylene Chloride	U		0.00770	0.0290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Methyl tert-butyl ether	U		0.000342	0.00116	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Naphthalene	U		0.00362	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
n-Propylbenzene	U		0.00137	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Styrene	U		0.00317	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,1,1,2-Tetrachloroethane	U		0.000580	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,1,2,2-Tetrachloroethane	U		0.000453	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 04/02/20 00:00

L1205565

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000783	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Tetrachloroethene	0.220		0.000812	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Toluene	U		0.00145	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2,3-Trichlorobenzene	U		0.000725	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2,4-Trichlorobenzene	U		0.00559	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,1,1-Trichloroethane	U		0.000319	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,1,2-Trichloroethane	U		0.00102	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Trichloroethene	U		0.000464	0.00116	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Trichlorofluoromethane	U		0.000580	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2,3-Trichloropropane	U		0.00592	0.0145	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2,4-Trimethylbenzene	U		0.00135	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,2,3-Trimethylbenzene	U		0.00133	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
1,3,5-Trimethylbenzene	U		0.00125	0.00580	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Vinyl chloride	U		0.000792	0.00290	1	04/04/2020 23:25	<a href="#">WG1455731</a>
Xylenes, Total	U		0.00555	0.00754	1	04/04/2020 23:25	<a href="#">WG1455731</a>
(S) Toluene-d8	118			75.0-131		04/04/2020 23:25	<a href="#">WG1455731</a>
(S) 4-Bromofluorobenzene	91.9			67.0-138		04/04/2020 23:25	<a href="#">WG1455731</a>
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		04/04/2020 23:25	<a href="#">WG1455731</a>

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc





Total Solids by Method 2540 G-2011

[L1205565-09](#)

Method Blank (MB)

(MB) R3517112-1 04/08/20 22:08

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00400			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1205553-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1205553-31 04/08/20 22:08 • (DUP) R3517112-3 04/08/20 22:08

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	86.0	85.6	1	0.564		10

Laboratory Control Sample (LCS)

(LCS) R3517112-2 04/08/20 22:08

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3517107-1 04/08/20 21:48

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1205565-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1205565-10 04/08/20 21:48 • (DUP) R3517107-3 04/08/20 21:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	84.1	84.5	1	0.372		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3517107-2 04/08/20 21:48

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3517104-1 04/08/20 21:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1205565-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1205565-20 04/08/20 21:27 • (DUP) R3517104-3 04/08/20 21:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	82.5	83.2	1	0.844		10

Laboratory Control Sample (LCS)

(LCS) R3517104-2 04/08/20 21:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	



Total Solids by Method 2540 G-2011

[L1205565-30](#)

Method Blank (MB)

(MB) R3517102-1 04/08/20 19:42

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1205570-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1205570-01 04/08/20 19:42 • (DUP) R3517102-3 04/08/20 19:42

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	71.1	70.8	1	0.424		10

Laboratory Control Sample (LCS)

(LCS) R3517102-2 04/08/20 19:42

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3517265-3 04/04/20 18:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	U		0.256	1.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3517265-3 04/04/20 18:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	119			80.0-120
(S) 4-Bromofluorobenzene	105			77.0-126
(S) 1,2-Dichloroethane-d4	98.8			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3517265-2 04/04/20 17:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	30.2	121	19.0-160	
Acrolein	25.0	0.779	3.12	10.0-160	J4
Acrylonitrile	25.0	21.9	87.6	55.0-149	
Benzene	5.00	4.76	95.2	70.0-123	



Laboratory Control Sample (LCS)

(LCS) R3517265-2 04/04/20 17:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	5.00	6.14	123	73.0-121	J4
Bromodichloromethane	5.00	4.68	93.6	75.0-120	
Bromoform	5.00	4.44	88.8	68.0-132	
Bromomethane	5.00	3.84	76.8	10.0-160	
n-Butylbenzene	5.00	6.10	122	73.0-125	
sec-Butylbenzene	5.00	5.63	113	75.0-125	
tert-Butylbenzene	5.00	6.22	124	76.0-124	
Carbon tetrachloride	5.00	4.79	95.8	68.0-126	
Chlorobenzene	5.00	5.09	102	80.0-121	
Chlorodibromomethane	5.00	5.22	104	77.0-125	
Chloroethane	5.00	3.36	67.2	47.0-150	
Chloroform	5.00	4.76	95.2	73.0-120	
Chloromethane	5.00	4.84	96.8	41.0-142	
2-Chlorotoluene	5.00	6.16	123	76.0-123	
4-Chlorotoluene	5.00	6.06	121	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.59	91.8	58.0-134	
1,2-Dibromoethane	5.00	5.42	108	80.0-122	
Dibromomethane	5.00	4.67	93.4	80.0-120	
1,2-Dichlorobenzene	5.00	5.61	112	79.0-121	
1,3-Dichlorobenzene	5.00	5.12	102	79.0-120	
1,4-Dichlorobenzene	5.00	4.96	99.2	79.0-120	
Dichlorodifluoromethane	5.00	6.56	131	51.0-149	
1,1-Dichloroethane	5.00	4.72	94.4	70.0-126	
1,2-Dichloroethane	5.00	4.56	91.2	70.0-128	
1,1-Dichloroethene	5.00	4.70	94.0	71.0-124	
cis-1,2-Dichloroethene	5.00	4.90	98.0	73.0-120	
trans-1,2-Dichloroethene	5.00	4.77	95.4	73.0-120	
1,2-Dichloropropane	5.00	4.62	92.4	77.0-125	
1,1-Dichloropropene	5.00	4.74	94.8	74.0-126	
1,3-Dichloropropane	5.00	5.24	105	80.0-120	
cis-1,3-Dichloropropene	5.00	4.50	90.0	80.0-123	
trans-1,3-Dichloropropene	5.00	4.69	93.8	78.0-124	
2,2-Dichloropropane	5.00	5.23	105	58.0-130	
Di-isopropyl ether	5.00	4.45	89.0	58.0-138	
Ethylbenzene	5.00	4.91	98.2	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.76	115	54.0-138	
Isopropylbenzene	5.00	5.21	104	76.0-127	
p-Isopropyltoluene	5.00	5.19	104	76.0-125	
2-Butanone (MEK)	25.0	24.4	97.6	44.0-160	
Methylene Chloride	5.00	4.98	99.6	67.0-120	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3517265-2 04/04/20 17:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	25.0	21.9	87.6	68.0-142	
Methyl tert-butyl ether	5.00	4.40	88.0	68.0-125	
Naphthalene	5.00	4.58	91.6	54.0-135	
n-Propylbenzene	5.00	6.12	122	77.0-124	
Styrene	5.00	4.68	93.6	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.23	105	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	6.33	127	65.0-130	
Tetrachloroethene	5.00	5.10	102	72.0-132	
Toluene	5.00	5.11	102	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.47	89.4	69.0-132	
1,2,3-Trichlorobenzene	5.00	4.97	99.4	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.28	106	57.0-137	
1,1,1-Trichloroethane	5.00	5.16	103	73.0-124	
1,1,2-Trichloroethane	5.00	5.44	109	80.0-120	
Trichloroethene	5.00	4.72	94.4	78.0-124	
Trichlorofluoromethane	5.00	6.18	124	59.0-147	
1,2,3-Trichloropropane	5.00	6.84	137	73.0-130	J4
1,2,3-Trimethylbenzene	5.00	5.43	109	77.0-120	
1,2,4-Trimethylbenzene	5.00	5.60	112	76.0-121	
1,3,5-Trimethylbenzene	5.00	6.36	127	76.0-122	J4
Vinyl chloride	5.00	4.21	84.2	67.0-131	
Xylenes, Total	15.0	15.2	101	79.0-123	
(S) Toluene-d8			115	80.0-120	
(S) 4-Bromofluorobenzene			107	77.0-126	
(S) 1,2-Dichloroethane-d4			100	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3517527-3 04/09/20 18:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Tetrachloroethene	U		0.372	1.00
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	94.2			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3517527-1 04/09/20 16:23 • (LCSD) R3517527-2 04/09/20 16:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Tetrachloroethene	5.00	4.36	4.51	87.2	90.2	72.0-132			3.38	20
(S) Toluene-d8				105	104	80.0-120				
(S) 4-Bromofluorobenzene				93.8	95.4	77.0-126				
(S) 1,2-Dichloroethane-d4				111	111	70.0-130				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3517285-2 04/05/20 03:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3517285-2 04/05/20 03:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	0.0223	J	0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.0125
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	99.9			67.0-138
(S) 1,2-Dichloroethane-d4	96.3			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3517285-1 04/05/20 02:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.767	123	10.0-160	
Acrylonitrile	0.625	0.725	116	45.0-153	
Benzene	0.125	0.109	87.2	70.0-123	
Bromobenzene	0.125	0.132	106	73.0-121	
Bromodichloromethane	0.125	0.111	88.8	73.0-121	



Laboratory Control Sample (LCS)

(LCS) R3517285-1 04/05/20 02:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.137	110	64.0-132	
Bromomethane	0.125	0.131	105	56.0-147	
n-Butylbenzene	0.125	0.135	108	68.0-135	
sec-Butylbenzene	0.125	0.134	107	74.0-130	
tert-Butylbenzene	0.125	0.119	95.2	75.0-127	
Carbon tetrachloride	0.125	0.107	85.6	66.0-128	
Chlorobenzene	0.125	0.140	112	76.0-128	
Chlorodibromomethane	0.125	0.119	95.2	74.0-127	
Chloroethane	0.125	0.132	106	61.0-134	
Chloroform	0.125	0.0949	75.9	72.0-123	
Chloromethane	0.125	0.117	93.6	51.0-138	
2-Chlorotoluene	0.125	0.140	112	75.0-124	
4-Chlorotoluene	0.125	0.142	114	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.122	97.6	59.0-130	
1,2-Dibromoethane	0.125	0.131	105	74.0-128	
Dibromomethane	0.125	0.136	109	75.0-122	
1,2-Dichlorobenzene	0.125	0.131	105	76.0-124	
1,3-Dichlorobenzene	0.125	0.131	105	76.0-125	
1,4-Dichlorobenzene	0.125	0.120	96.0	77.0-121	
Dichlorodifluoromethane	0.125	0.201	161	43.0-156	J4
1,1-Dichloroethane	0.125	0.107	85.6	70.0-127	
1,2-Dichloroethane	0.125	0.0891	71.3	65.0-131	
1,1-Dichloroethene	0.125	0.126	101	65.0-131	
cis-1,2-Dichloroethene	0.125	0.111	88.8	73.0-125	
trans-1,2-Dichloroethene	0.125	0.123	98.4	71.0-125	
1,2-Dichloropropane	0.125	0.164	131	74.0-125	J4
1,1-Dichloropropene	0.125	0.119	95.2	73.0-125	
1,3-Dichloropropane	0.125	0.125	100	80.0-125	
cis-1,3-Dichloropropene	0.125	0.144	115	76.0-127	
trans-1,3-Dichloropropene	0.125	0.135	108	73.0-127	
2,2-Dichloropropane	0.125	0.109	87.2	59.0-135	
Di-isopropyl ether	0.125	0.131	105	60.0-136	
Ethylbenzene	0.125	0.134	107	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.115	92.0	57.0-150	
Isopropylbenzene	0.125	0.139	111	72.0-127	
p-Isopropyltoluene	0.125	0.131	105	72.0-133	
2-Butanone (MEK)	0.625	0.730	117	30.0-160	
Methylene Chloride	0.125	0.111	88.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.773	124	56.0-143	
Methyl tert-butyl ether	0.125	0.118	94.4	66.0-132	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3517285-1 04/05/20 02:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.125	0.108	86.4	59.0-130	
n-Propylbenzene	0.125	0.136	109	74.0-126	
Styrene	0.125	0.157	126	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.127	102	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.130	104	68.0-128	
Tetrachloroethene	0.125	0.124	99.2	70.0-136	
Toluene	0.125	0.116	92.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.140	112	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.120	96.0	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.109	87.2	62.0-137	
1,1,1-Trichloroethane	0.125	0.119	95.2	69.0-126	
1,1,2-Trichloroethane	0.125	0.112	89.6	78.0-123	
Trichloroethene	0.125	0.135	108	76.0-126	
Trichlorofluoromethane	0.125	0.120	96.0	61.0-142	
1,2,3-Trichloropropane	0.125	0.134	107	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.116	92.8	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.115	92.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.114	91.2	73.0-127	
Vinyl chloride	0.125	0.164	131	63.0-134	
Xylenes, Total	0.375	0.415	111	72.0-127	
(S) Toluene-d8			106	75.0-131	
(S) 4-Bromofluorobenzene			104	67.0-138	
(S) 1,2-Dichloroethane-d4			94.5	70.0-130	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

L1205502-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205502-08 04/05/20 04:37 • (MS) R3517285-3 04/05/20 10:58 • (MSD) R3517285-4 04/05/20 11:18

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.701	0.0711	0.643	0.550	81.5	68.3	1	10.0-160			15.6	40
Acrylonitrile	0.701	U	0.800	0.769	114	110	1	10.0-160			4.01	40
Benzene	0.140	U	0.151	0.158	108	113	1	10.0-149			4.35	37
Bromobenzene	0.140	U	0.181	0.182	129	130	1	10.0-156			0.619	38
Bromodichloromethane	0.140	U	0.148	0.151	106	108	1	10.0-143			2.25	37
Bromoform	0.140	U	0.145	0.153	103	109	1	10.0-146			5.28	36
Bromomethane	0.140	U	0.129	0.142	92.0	102	1	10.0-149			9.92	38
n-Butylbenzene	0.140	U	0.190	0.204	135	146	1	10.0-160			7.41	40
sec-Butylbenzene	0.140	U	0.187	0.204	134	146	1	10.0-159			8.60	39
tert-Butylbenzene	0.140	U	0.167	0.183	119	130	1	10.0-156			8.97	39



L1205502-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205502-08 04/05/20 04:37 • (MS) R3517285-3 04/05/20 10:58 • (MSD) R3517285-4 04/05/20 11:18

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.140	U	0.144	0.157	102	112	1	10.0-145			8.96	37
Chlorobenzene	0.140	U	0.182	0.186	130	133	1	10.0-152			2.44	39
Chlorodibromomethane	0.140	U	0.144	0.149	102	106	1	10.0-146			3.83	37
Chloroethane	0.140	U	0.117	0.111	83.2	79.1	1	10.0-146			5.03	40
Chloroform	0.140	U	0.140	0.137	100	97.6	1	10.0-146			2.43	37
Chloromethane	0.140	U	0.168	0.187	120	134	1	10.0-159			10.7	37
2-Chlorotoluene	0.140	U	0.191	0.202	136	144	1	10.0-159			5.71	38
4-Chlorotoluene	0.140	U	0.200	0.208	142	148	1	10.0-155			3.86	39
1,2-Dibromo-3-Chloropropane	0.140	U	0.113	0.140	80.8	100	1	10.0-151			21.2	39
1,2-Dibromoethane	0.140	U	0.163	0.166	116	118	1	10.0-148			2.05	34
Dibromomethane	0.140	U	0.176	0.172	126	122	1	10.0-147			2.58	35
1,2-Dichlorobenzene	0.140	U	0.171	0.180	122	128	1	10.0-155			5.13	37
1,3-Dichlorobenzene	0.140	U	0.171	0.182	122	130	1	10.0-153			6.37	38
1,4-Dichlorobenzene	0.140	U	0.159	0.167	114	119	1	10.0-151			4.81	38
Dichlorodifluoromethane	0.140	U	0.258	0.306	184	218	1	10.0-160	J5	J5	17.1	35
1,1-Dichloroethane	0.140	U	0.151	0.151	108	108	1	10.0-147			0.000	37
1,2-Dichloroethane	0.140	U	0.121	0.121	86.4	86.4	1	10.0-148			0.000	35
1,1-Dichloroethene	0.140	U	0.174	0.193	124	138	1	10.0-155			10.4	37
cis-1,2-Dichloroethene	0.140	U	0.153	0.151	109	108	1	10.0-149			0.738	37
trans-1,2-Dichloroethene	0.140	U	0.172	0.175	122	125	1	10.0-150			1.94	37
1,2-Dichloropropane	0.140	U	0.231	0.227	165	162	1	10.0-148	J5	J5	1.96	37
1,1-Dichloropropene	0.140	U	0.165	0.176	118	126	1	10.0-153			6.58	35
1,3-Dichloropropane	0.140	U	0.163	0.168	116	120	1	10.0-154			3.39	35
cis-1,3-Dichloropropene	0.140	U	0.195	0.205	139	146	1	10.0-151			5.04	37
trans-1,3-Dichloropropene	0.140	U	0.172	0.180	122	128	1	10.0-148			4.47	37
2,2-Dichloropropane	0.140	U	0.113	0.131	80.8	93.6	1	10.0-138			14.7	36
Di-isopropyl ether	0.140	U	0.177	0.186	126	133	1	10.0-147			4.94	36
Ethylbenzene	0.140	U	0.173	0.185	123	132	1	10.0-160			6.90	38
Hexachloro-1,3-butadiene	0.140	U	0.127	0.156	90.4	111	1	10.0-160			20.6	40
Isopropylbenzene	0.140	U	0.172	0.181	122	129	1	10.0-155			5.10	38
p-Isopropyltoluene	0.140	U	0.180	0.200	128	142	1	10.0-160			10.7	40
2-Butanone (MEK)	0.701	0.0233	0.822	0.785	114	109	1	10.0-160			4.61	40
Methylene Chloride	0.140	U	0.160	0.172	114	122	1	10.0-141			6.76	37
4-Methyl-2-pentanone (MIBK)	0.701	U	0.898	0.901	128	128	1	10.0-160			0.374	35
Methyl tert-butyl ether	0.140	U	0.128	0.136	91.2	96.8	1	11.0-147			5.96	35
Naphthalene	0.140	U	0.114	0.144	81.6	102	1	10.0-160			22.6	36
n-Propylbenzene	0.140	U	0.201	0.209	143	149	1	10.0-158			3.84	38
Styrene	0.140	U	0.195	0.202	139	144	1	10.0-160			3.39	40
1,1,1,2-Tetrachloroethane	0.140	U	0.146	0.153	104	109	1	10.0-149			4.51	39

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



L1205502-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205502-08 04/05/20 04:37 • (MS) R3517285-3 04/05/20 10:58 • (MSD) R3517285-4 04/05/20 11:18

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	0.140	U	0.174	0.183	124	130	1	10.0-160			5.03	35
Tetrachloroethene	0.140	U	0.159	0.171	114	122	1	10.0-156			6.80	39
Toluene	0.140	U	0.154	0.160	110	114	1	10.0-156			4.29	38
1,1,2-Trichlorotrifluoroethane	0.140	U	0.183	0.214	130	153	1	10.0-160			15.8	36
1,2,3-Trichlorobenzene	0.140	U	0.137	0.176	97.6	126	1	10.0-160			25.1	40
1,2,4-Trichlorobenzene	0.140	U	0.121	0.151	86.4	108	1	10.0-160			22.2	40
1,1,1-Trichloroethane	0.140	U	0.160	0.173	114	123	1	10.0-144			7.41	35
1,1,2-Trichloroethane	0.140	U	0.145	0.144	103	102	1	10.0-160			0.778	35
Trichloroethene	0.140	U	0.175	0.185	125	132	1	10.0-156			5.61	38
Trichlorofluoromethane	0.140	U	0.105	0.105	75.0	74.6	1	10.0-160			0.428	40
1,2,3-Trichloropropane	0.140	U	0.169	0.182	121	130	1	10.0-156			7.03	35
1,2,3-Trimethylbenzene	0.140	U	0.158	0.169	113	121	1	10.0-160			6.85	36
1,2,4-Trimethylbenzene	0.140	U	0.162	0.171	115	122	1	10.0-160			5.41	36
1,3,5-Trimethylbenzene	0.140	U	0.164	0.168	117	120	1	10.0-160			2.70	38
Vinyl chloride	0.140	U	0.235	0.267	167	190	1	10.0-160	J5	J5	13.0	37
Xylenes, Total	0.421	U	0.516	0.537	123	128	1	10.0-160			4.05	38
(S) Toluene-d8					102	104		75.0-131				
(S) 4-Bromofluorobenzene					96.1	96.5		67.0-138				
(S) 1,2-Dichloroethane-d4					98.9	91.9		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3517312-1 04/04/20 21:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3517312-1 04/04/20 21:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	0.0274		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.0125
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	116			75.0-131
(S) 4-Bromofluorobenzene	90.4			67.0-138
(S) 1,2-Dichloroethane-d4	87.4			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3517312-2 04/04/20 22:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.466	74.6	10.0-160	
Acrylonitrile	0.625	0.692	111	45.0-153	
Benzene	0.125	0.112	89.6	70.0-123	
Bromobenzene	0.125	0.123	98.4	73.0-121	
Bromodichloromethane	0.125	0.108	86.4	73.0-121	



Laboratory Control Sample (LCS)

(LCS) R3517312-2 04/04/20 22:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.125	0.112	89.6	64.0-132	
Bromomethane	0.125	0.110	88.0	56.0-147	
n-Butylbenzene	0.125	0.0936	74.9	68.0-135	
sec-Butylbenzene	0.125	0.106	84.8	74.0-130	
tert-Butylbenzene	0.125	0.0992	79.4	75.0-127	
Carbon tetrachloride	0.125	0.106	84.8	66.0-128	
Chlorobenzene	0.125	0.115	92.0	76.0-128	
Chlorodibromomethane	0.125	0.102	81.6	74.0-127	
Chloroethane	0.125	0.124	99.2	61.0-134	
Chloroform	0.125	0.118	94.4	72.0-123	
Chloromethane	0.125	0.131	105	51.0-138	
2-Chlorotoluene	0.125	0.105	84.0	75.0-124	
4-Chlorotoluene	0.125	0.109	87.2	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.119	95.2	59.0-130	
1,2-Dibromoethane	0.125	0.112	89.6	74.0-128	
Dibromomethane	0.125	0.106	84.8	75.0-122	
1,2-Dichlorobenzene	0.125	0.113	90.4	76.0-124	
1,3-Dichlorobenzene	0.125	0.115	92.0	76.0-125	
1,4-Dichlorobenzene	0.125	0.111	88.8	77.0-121	
Dichlorodifluoromethane	0.125	0.171	137	43.0-156	
1,1-Dichloroethane	0.125	0.113	90.4	70.0-127	
1,2-Dichloroethane	0.125	0.124	99.2	65.0-131	
1,1-Dichloroethene	0.125	0.114	91.2	65.0-131	
cis-1,2-Dichloroethene	0.125	0.116	92.8	73.0-125	
trans-1,2-Dichloroethene	0.125	0.122	97.6	71.0-125	
1,2-Dichloropropane	0.125	0.117	93.6	74.0-125	
1,1-Dichloropropene	0.125	0.106	84.8	73.0-125	
1,3-Dichloropropane	0.125	0.113	90.4	80.0-125	
cis-1,3-Dichloropropene	0.125	0.107	85.6	76.0-127	
trans-1,3-Dichloropropene	0.125	0.110	88.0	73.0-127	
2,2-Dichloropropane	0.125	0.103	82.4	59.0-135	
Di-isopropyl ether	0.125	0.114	91.2	60.0-136	
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.114	91.2	57.0-150	
Isopropylbenzene	0.125	0.107	85.6	72.0-127	
p-Isopropyltoluene	0.125	0.0996	79.7	72.0-133	
2-Butanone (MEK)	0.625	0.607	97.1	30.0-160	
Methylene Chloride	0.125	0.111	88.8	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.589	94.2	56.0-143	
Methyl tert-butyl ether	0.125	0.118	94.4	66.0-132	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3517312-2 04/04/20 22:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.125	0.120	96.0	59.0-130	
n-Propylbenzene	0.125	0.106	84.8	74.0-126	
Styrene	0.125	0.105	84.0	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.114	91.2	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.134	107	68.0-128	
Tetrachloroethene	0.125	0.131	105	70.0-136	
Toluene	0.125	0.121	96.8	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.123	98.4	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.131	105	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.124	99.2	62.0-137	
1,1,1-Trichloroethane	0.125	0.117	93.6	69.0-126	
1,1,2-Trichloroethane	0.125	0.120	96.0	78.0-123	
Trichloroethene	0.125	0.106	84.8	76.0-126	
Trichlorofluoromethane	0.125	0.117	93.6	61.0-142	
1,2,3-Trichloropropane	0.125	0.112	89.6	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.0963	77.0	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.0992	79.4	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.111	88.8	73.0-127	
Vinyl chloride	0.125	0.152	122	63.0-134	
Xylenes, Total	0.375	0.337	89.9	72.0-127	
<i>(S) Toluene-d8</i>			113	75.0-131	
<i>(S) 4-Bromofluorobenzene</i>			94.4	67.0-138	
<i>(S) 1,2-Dichloroethane-d4</i>			95.4	70.0-130	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

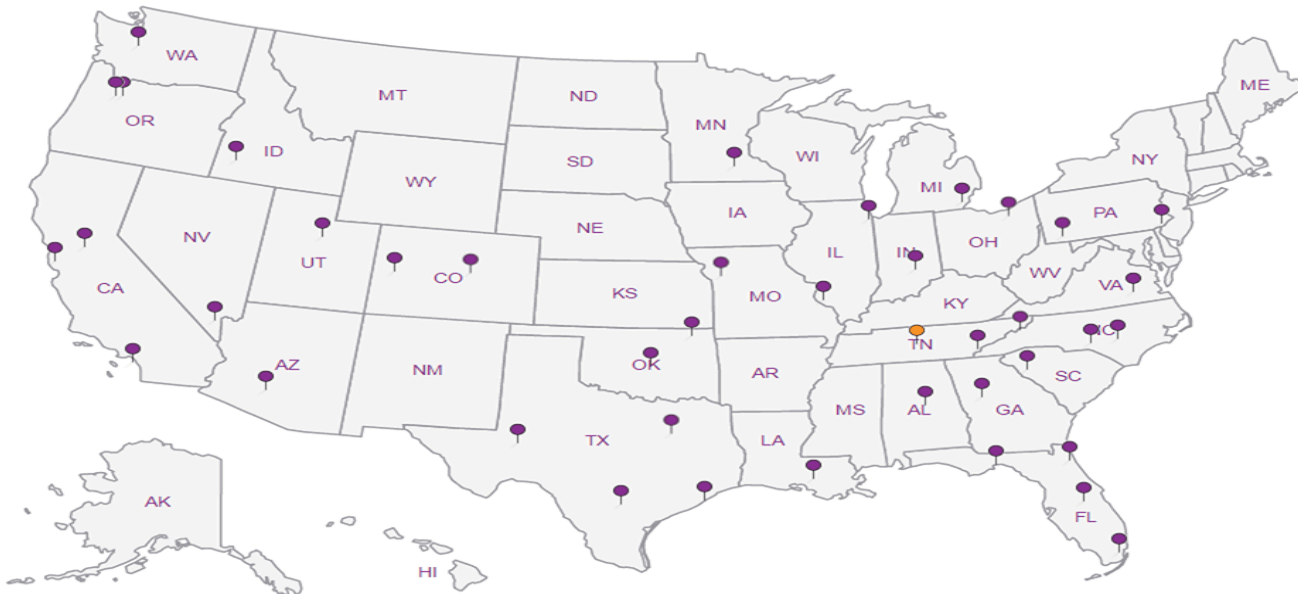
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# Weber, Hayes & Associates - CA

120 Westgate Drive  
Watsonville, CA 95076

Billing information:  
Accounts Payable- Laura Garcia  
120 Westgate Drive  
Watsonville, CA 95076

Report to:  
Ryan Nyberg

Email To: Lab@weber-hayes.com; ryan@weber-hayes.com; harrison@weber-hayes.com

Project Description: Capitola Rd

City/State Collected: Santa Cruz

Please Circle: PT MT CT ET

Phone: 831-722-3580  
Fax:

Client Project #  
21009

Lab Project #  
WEBHAYWCA-2T009

Collected by (print):  
Ryan Nyberg

Site/Facility ID #  
1541 CAPITOLA RD SANTA

P.O. #  
21009

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)

Quote #

Some Day Five Day  
Next Day 5 Day (Rad Only)  
Ten Day 10 Day (Rad Only)  
Three Day

Date Results Needed

Immediately Packed on Ice: N  Y  X

No. of Dets

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Dets	Analysis / Container / Preservative
GW-1		GW		4/1/20		3	soil VOCs 8260 40mlAmb/MeOH5ml/Syr
GW-2		GW		4/2/20			soil dry weight 2ozClr-NoPres
GW-3		GW					water VOCs 8260 40mlAmb-HCl
GW-4		GW					
GW-5		GW					
GW-6		GW					
SV-5-d5		GW	5	4/1/20		1	
SV-5-d15		GW	15			1	
SV-6-d5		SS	5			2	
SV-6-d15		SS	15			2	

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bloatedy  
WW - Waste Water  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:  
UPS FedEx Courier

Tracking #

127586639226

pH Temp

Flow Other

Sample Receipt Checklist  
 CQC Seal Present/Intact:  Y  N  
 CQC signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Term Headpace:  Y  N  
 Residual Vol Correct/Checked:  Y  N  
 RAD Screen off 0.0 ml/hr:  Y  N

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Top Blank Received:  Yes  No

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 10.1°C  
Bottles Received: 24

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 7/3/20 Time: 8:30

04-0028

Condition: NCF /  OK



12005 Jefferson Rd  
Mount Juliet, TN 37122  
Phone: 615-756-5858  
Phone: 800-707-5859  
Fax: 615-756-5859



SDG # L2005265  
A198

Account: WEBHAYWCA

Template: T165307

Project: P763844

PM: 110 - Brian Ford

PI:

Shipped Via:

Remarks Sample # (Det only)

MM  
03  
04  
05  
06  
07  
08

**Weber, Hayes & Associates - CA**

120 Westgate Drive  
Watsonville, CA 95076

Billing Information:  
Accounts Payable- Laura Garcia  
120 Westgate Drive  
Watsonville, CA 95076

Pres  
Chk

Analysis / Container / Preservation

Chain of Custody Page \_\_\_ of \_\_\_



13884 Lakeside Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5855  
Phone: 800-767-5858  
Fax: 615-758-6859



Report to:  
**Ryan Nyberg**

Email To: Lab@weber-hayes.com; ryan@weber-hayes.com; harrison@weber-hayes.com

Project:  
Description: **Capitola Rd**

City/State  
Collected: **Santa Cruz**

Please Circle:  
FT MT CF ET

Phone: **831-722-3580**  
Fax:

Client Project #  
**21009**

Lab Project #  
**WEBHAYWCA-2T009**

Collected by (print):  
**Ryan Nyberg**

Site/Facility ID #  
**1541 CAPITOLA RD SANTA**

P.O. #  
**21009**

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
Date Results Needed

Immediately Packed on Ice: **N**  **X**

soil VOCs 8260 40mlAmb/MeOH+5ml/SW  
 soil dry weight 2oz/Clr-NoPres  
 water VOCs 8260 40mlAmb-HCl

SDG # **L12055615**  
**A199**

Account: **WEBHAYWCA**  
Template: **T165307**  
Project: **P763844**  
PM: **110 - Brian Ford**  
PS

Shipped Via:  
Remarks | Sample # (Lab use)

Sample ID	Comp/Grat	Matrix *	Depth	Date	Time	No. of Ctrns	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
SS-2-d3		SS	3'			2	X	X																	
SS-2-d4.5		SS	4.5'				X	X																	
SS-2-d12		SS	12'				X	X																	
SS-3-d3		SS	3'				X	X																	
SS-3-d6		SS	6'				X	X																	
SS-3-d12		SS	12'				X	X																	
GW-1-d3		SS	3'	4/1/20			X	X																	
GW-1-d7		SS	7'				X	X																	
GW-1-d12		SS	12'				X	X																	
GW-1-d24		SS	24'				X	X																	

07  
09  
10  
11  
12  
13  
14  
15  
16  
17  
18

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  UPS  FedEx  Courier  
Tracking # **1275 86039226**

Sample Receipt Checklist  
 CAC Seal Present/Intact  
 CAC Signed/Accurate  
 Bottles arrive intact  
 Correct bottles used  
 Sufficient volume sent  
 If Applicable  
 VOA Swa Headspace  
 Preservation Current/Checked  
 RAD Screened 40.5 SR/70

Relinquished by: (Signature) <i>[Signature]</i>	Date: <b>4-2-20</b>	Time: <b>3:30pm</b>	Received by: (Signature) <b>FedEx</b>	Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL/MeOH TBA
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <b>10-15.9</b> <sup>u-X</sup> <b>AVC</b> 6000 Received: <b>20</b>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <b>Sandy Yusef</b>	Date: <b>4/3/20</b> Time: <b>8:30</b> Hold: _____ Condition: <b>NCF / OK</b>

**Weber, Hayes & Associates - CA**  
 120 Westgate Drive  
 Watsonville, CA 95076

Billing Information:  
 Accounts Payable- Laura Garcia  
 120 Westgate Drive  
 Watsonville, CA 95076

Report to:  
**Ryan Nyberg**

Email To: lab@weber-hayes.com; ryan@weber-hayes.com; charmon@weber-hayes.com

Project Description: **Capitola Rd**

City/State Collected: **Santa Cruz**

Please Circle: **PT MT CT ET**

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
 Mount Airy, TN 37132  
 Phone: 615-758-1858  
 Phone: 800-787-0859  
 Fax: 615-758-0859



Phone: **831-722-3580**

Client Project #: **21009**

Lab Project #: **WEBHAYWCA-2T009**

Collected by (print): **Ryan Nyberg**

Site/Facility ID #: **1541 CAPITOLA RD SANTA**

P.O. #: **21009**

Collected by (signature): *[Signature]*

Rush? (Lab MUST Be Notified)

Same Day  Five Day   
 Next Day  5 Day (Rad Only)   
 Two Day  10 Day (Rad Only)   
 Three Day

Date Results Needed

Immediately

Packed on Ice **N**  **X**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservation
GW-3-d3		SS	3	4/2/20		2	soil VOCs 8260 40mlAmb/MeOH5ml/Syr soil dry weight 2ozClr-NoPres water VOCs 8260 40mlAmb-HCl
GW-3-d6		SS	6			1	
GW-3-d12		SS	12			1	
GW-3-d19		SS	19			1	
GW-4-d3		SS	3			1	
GW-4-d6		SS	6			1	
GW-4-d12		SS	12			1	
GW-4-d23		SS	23			1	
SV-1-d5		SS	5	4/1/20		1	
SV-1-d15		SS	15	4/1/20		1	

SOS # **L1205666**

Tablet **A200**

Account: **WEBHAYWCA**

Template: **T165307**

Project: **P763844**

PM: **110 - Brian Ford**

PI

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservation
GW-3-d3		SS	3	4/2/20		2	soil VOCs 8260 40mlAmb/MeOH5ml/Syr soil dry weight 2ozClr-NoPres water VOCs 8260 40mlAmb-HCl
GW-3-d6		SS	6			1	
GW-3-d12		SS	12			1	
GW-3-d19		SS	19			1	
GW-4-d3		SS	3			1	
GW-4-d6		SS	6			1	
GW-4-d12		SS	12			1	
GW-4-d23		SS	23			1	
SV-1-d5		SS	5	4/1/20		1	
SV-1-d15		SS	15	4/1/20		1	

Remarks

Sample # (Lab use)

**17**  
**18**  
**19**  
**20**  
**21**  
**22**  
**23**  
**24**  
**25**  
**26**

**HOLD**  
**HOLD**

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - Waste Water  
 DW - Drinking Water  
 OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS \_\_\_\_\_ FedEx \_\_\_\_\_ Courier \_\_\_\_\_

Tracking # **127586039226**

Sample Receipt Checklist:

COC Seal Present/Intact  Y/N

COC Signed/Accurate  Y/N

Bottle arrive intact  Y/N

Correct bottles used  Y/N

Sufficient volume sent  Y/N

IF Applicable

VOL Seal headspace  Y/N

Preservation Correct/Checked  Y/N

RAD Screen w/ 3 MB/HR  Y/N

Relinquished by: (Signature) *[Signature]* Date: **4/2/20** Time: **3:30pm**

Received by: (Signature) *[Signature]* Date: **4/2/20** Time: **8:30**

Temp **10.1 = 9** °C


Bottles Required: **18**

Relinquished by: (Signature) *[Signature]* Date: **4/3/20** Time: **8:30**

Received by: (Signature) *[Signature]* Date: **4/3/20** Time: **8:30**


Condition: **NCF**  **OK**



<b>Weber, Hayes &amp; Associates - CA</b> 120 Westgate Drive Watsonville, CA 95076	Billing Information: <b>Accounts Payable- Laura Garcia</b> 120 Westgate Drive Watsonville, CA 95076	Chain of Custody Page <u>  </u> of <u>  </u>  13005 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-756-8800 Phone: 800-747-5409 Fax: 615-756-8800
	Report to: <b>Ryan Nyberg</b>	


Project Description: <b>Capitola Rd</b>	City/State Collected: <b>Santa Cruz</b>	Please Circle: <b>PT</b> MT CT ET
---	---	-----------------------------------

Phone: <b>831-722-3580</b> Fax:	Client Project # <b>21009</b>	Lab Project # <b>WEBHAYWCA-2T009</b>
Collected by (print): <b>Ryan N</b>	Site/Facility ID # <b>1541 CAPITOLA RD SANTA</b>	P.O. # <b>21009</b>

Collected by (signature):  Immediately Packed on Ice <b>Y</b>	<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day	Quote # Date Results Needed
---	--	--------------------------------

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Ctris	soil VOCs 8260 40mlAmb/MeOH5ml/Sw	soil dry weight 2ozCir-NoPres	water VOCs 8260 40mlAmb-HCl	Analysis / Container / Preservative	Chain of Custody
GW-5-d3		SS	3	4/2/20		2	X	X			
GW-5-d6		SS	6			1	X	X			
GW-5-d12		SS	12			1	X	X			
GW-5-d27		SS	27			1	X	X			
SV-2-d5		SS	5	4/1/20		1					HOLD
SV-2-d15		SS	15			1					
SV-3-d5		SS	5			1					
SV-3-d15		SS	15			1					
SV-4-d5		SS	5			1					
SV-4-d15		SS	15			1					

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Biossay WW - Waste Water DW - Drinking Water OE - Other	Remarks: Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Tracking # <b>127586039226</b>	pH _____ Temp _____ Flow _____ Other _____	Sample Receipt Checklist: VOC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N VOC Signed/Adjustable: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Perm Backpack: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N HAF Screen <0.5 ml/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
--	---	--------------------------------	---	---

Relinquished by: (Signature)  Date: <b>4/2/20</b> Time: <b>3:30pm</b>	Received by: (Signature) <b>FedEx</b> Trip Blank Received: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No HCL/Perm TH
Relinquished by: (Signature) Date: Time:	Received by: (Signature) Temp: <b>10-15.9</b> <b>ARC</b> bottles received: <b>14</b> Date: <b>4/3/20</b> Time: <b>8:30</b>
Relinquished by: (Signature) Date: Time:	Received for lab by: (Signature) <b>Sandy yossef</b> Date: <b>4/3/20</b> Time: <b>8:30</b>

SDG # **U205565**  
 Tab **A201**  
 Account: **WEBHAYWCA**  
 Template: **T165307**  
 Protocol: **P763844**  
 PM: **110 - Brian Ford**  
 PS  
 Shipped Via:

Remarks: **UM**  
 Sample # (Lab only):  
**25 27**  
**26 28**  
**27 29**  
**28 30**

---

**Soil Vapor Analysis**

—

**BC Laboratories, Inc.**



Date of Report: 04/08/2020

Harrison Hucks

Weber, Hayes & Associates

120 Westgate Drive  
Watsonville, CA 95076

Client Project: Former Fairway Cleaners - 2T009b

BCL Project: Air Samples - COELT

BCL Work Order: 2009861

Invoice ID: B376815

Enclosed are the results of analyses for samples received by the laboratory on 4/3/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval  
Client Service Rep

Stuart Buttram  
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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## Table of Contents

### Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	6

### Sample Results

<b>2009861-01 - SV-1-d5</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	11
<b>2009861-02 - SV-1-d15</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	14
<b>2009861-03 - SV-2-d5</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	17
<b>2009861-04 - SV-2-d15</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	20
<b>2009861-05 - SV-3-d5</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	23
<b>2009861-06 - SV-3-d15</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	26
<b>2009861-07 - SV-4-d5</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	29
<b>2009861-08 - SV-4-d15</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	32
<b>2009861-09 - SV-5-d5</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	35
<b>2009861-10 - SV-5-d15</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	38
<b>2009861-11 - SV-6-d5</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	41
<b>2009861-12 - SV-6-d15</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	44
<b>2009861-13 - DUP-A</b>	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP).....	47

### Quality Control Reports

<b>Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)</b>	
Method Blank Analysis.....	50
Laboratory Control Sample.....	52

### Notes

Notes and Definitions.....	53
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CHAIN -OF-CUSTODY RECORD

Webster, Hayes & Associates  
Hydrogeology and Environmental Engineering

120 Westgate Dr., Watsonville, CA 95076  
(831) 722-3680 Fax: (831) 722-1159  
www.webster-hayes.com

PROJECT NAME AND JOB #: Former Fairway Cleaners - 2T0098b

SEND CERTIFIED RESULTS TO: Webster, Hayes & Associates - Attn: Harrison Hucks

ELECTRONIC DELIVERABLE FORMAT:  YES  NO

Sampler: Harrison/Hucks

Date: 4/1/20

LABORATORY: BC Labs

TURNAROUND TIME: Standard Five-Day

24hr Rush 48hr Rush 72hr Rush

GLOBAL I.D.: T10000014098

PAGE 1 OF 1

20-09861

GeoTracker Field Point Name (FPN)	Sample ID	Date Sampled	Matrix	SAMPLE CONTAINERS			REQUESTED ANALYSIS				Additional Analysis					
				40 mL VOCs (preserved)	1.4 L Sorbent Tube	Liter Acids or Bases	Exhaustive Steam & Retort Oil with Silica Gel Cleanup	Gasoline by TO-15 CPO	Naphthalene by TO-17	Full LM-VOCs EPA Method 821-15 SM	Volatile Organics Full Line VOCs EPA Method TO-15	IPA (IOP) EPA Method TO-15	Mercury (MOC) ASTM D-1646	Other	HOLD	
SV-1 -1	SV-1-d5	4/1/20	Air		X											
SV-1 -2	SV-1-d15															
SV-2 -3	SV-2-d5															
SV-2 -4	SV-2-d15															
SV-3 -5	SV-3-d5															
SV-3 -6	SV-3-d15															
SV-4 -7	SV-4-d5															
SV-4 -8	SV-4-d15															
SV-5 -9	SV-5-d5															
SV-5 -10	SV-5-d15															
SV-6 -11	SV-6-d5															
SV-6 -12	SV-6-d15															
-13	DUP-A															

RELEASED BY: Harrison Hucks, [Signature]  
 RECEIVED BY: [Signature] RBINS BOL  
 DATE & TIME: 4/1/20 17:30  
 4/13/20 9:30

RECEIVED BY: [Signature] RBINS BOL  
 DATE & TIME: 4/1/20 17:30  
 4/13/20 9:30

RECEIVED BY: [Signature] RBINS BOL  
 DATE & TIME: 4/1/20 17:30  
 4/13/20 9:30

RECEIVED BY: [Signature] RBINS BOL  
 DATE & TIME: 4/1/20 17:30  
 4/13/20 9:30

RECEIVED BY: [Signature] RBINS BOL  
 DATE & TIME: 4/1/20 17:30  
 4/13/20 9:30

NOTES:

Please use MDL (Minimum Detection Limit) for any diluted samples.

\*Please Report all Results in ug/m<sup>3</sup>.

ADDITIONAL COMMENTS: \*Please email Results to: info@webster-hayes.com & harrison@webster-hayes.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 20-09861

**SHIPPING INFORMATION**  
 Fed Ex  UPS  Ontrac  Hand Delivery   
 BC Lab Field Service  Other  (Specify) 950

**SHIPPING CONTAINER**  
 Ice Chest  None  Box   
 Other  (Specify) \_\_\_\_\_

**FREE LIQUID**  
 YES  NO   
 W / S \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals Ice Chest  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

All samples received?  Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

**COC Received**  
 YES  NO

Emissivity: \_\_\_\_\_ Container: Summa Thermometer ID: \_\_\_\_\_  
 Temperature: (A) \_\_\_\_\_ Room temp \_\_\_\_\_ °C / (C) \_\_\_\_\_ °C

Date/Time 4/3/2018  
 Analyst Init Dml 930

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>4+</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOUR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 503/603/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
5oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
3oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: No find on site

Sample Numbering Completed By: \_\_\_\_\_ Date/Time: 4-3-20 9:42

= Actual / C = Corrected

Rev 21 05/23/2016  
 IS:\WPDec\Wet\Perfect\LAB\_DOC\FORMS\SAMREC rev 20



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 20-09861

**SHIPPING INFORMATION**  
 Fed Ex  UPS  Ontrac  Hand Delivery   
 BC Lab Field Service  Other  (Specify) gso

**SHIPPING CONTAINER**  
 Ice Chest  None  Box   
 Other  (Specify) \_\_\_\_\_

**FREE LIQUID**  
 YES  NO   
 W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received  YES  NO  
 Emissivity: \_\_\_\_\_ Container: Summa Thermometer ID: \_\_\_\_\_  
 Temperature: (A) \_\_\_\_\_ Room Temp (C) \_\_\_\_\_ °C  
 Date/Time 4/3/2018 Analyst Init DM 930

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
10ml VOA VIAL TRAVEL BLANK										
10ml VOA VIAL										
1T EPA 1664										
1T ODR										
LABIOLOGICAL										
ACTERIOLOGICAL										
8 ml VOA VIAL- 504										
1T EPA 508/608/8080										
1T EPA 515.1/8150										
1T EPA 525										
1T EPA 525 TRAVEL BLANK										
1ml EPA 547										
1ml EPA 531.1										
1/2 EPA 548										
1T EPA 549										
1T EPA 5015M										
1T EPA 8370										
1 / 16oz / 32oz AMBER										
1 / 16oz / 32oz JAR										
1IL SLEEVE										
1B VIAL										
1ASTIC BAG										
1DLAR BAG										
1RROUS IRON										
1CORE										
1ART KIT										
1MMA CANISTER	A	A	A							

Comments: \_\_\_\_\_

Sample Numbering Completed By: JHU Date/Time: 4-3-20 9:42 Rev 21 05/23/2016

Actual / C = Corrected

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Weber, Hayes & Associates  
120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2009861-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-1-d5 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-1-d5 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2009861-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-1-d15 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-1-d15 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

<b>2009861-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-2-d5 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-2-d5 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
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Weber, Hayes & Associates  
120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2009861-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-2-d15 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-2-d15 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

<b>2009861-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-3-d5 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-3-d5 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2009861-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-3-d15 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-3-d15 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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Weber, Hayes & Associates  
120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2009861-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-4-d5 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-4-d5 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2009861-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-4-d15 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-4-d15 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

<b>2009861-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-5-d5 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-5-d5 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
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Weber, Hayes & Associates  
120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2009861-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-5-d15 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-5-d15 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
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<b>2009861-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-6-d5 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-6-d5 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
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<b>2009861-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> SV-6-d15 <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): SV-6-d15 Matrix: GS Sample QC Type (SACode): CS Cooler ID:
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120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2009861-13</b>	<b>COC Number:</b> --- <b>Project Number:</b> Former Fairway Cleaners <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-A <b>Sampled By:</b> Harrison Hucks of WHAW	<b>Receive Date:</b> 04/03/2020 09:30 <b>Sampling Date:</b> 04/01/2020 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Air <b>Sample Type:</b> Vapor or Air Delivery Work Order: Global ID: T10000014098 Location ID (FieldPoint): DUP-A Matrix: GS Sample QC Type (SACode): CS Cooler ID:
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120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-01		Client Sample Name: Former Fairway Cleaners, SV-1-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	91	ug/m3	78	6.0	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	31	3.4	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	31	4.0	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	31	2.5	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	160	9.8	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	78	6.2	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	160	11	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	31	8.5	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	31	3.9	EPA-TO-15	ND	A01	1
<b>Carbon disulfide</b>	<b>11</b>	<b>ug/m3</b>	<b>31</b>	<b>2.5</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
Carbon tetrachloride	ND	ug/m3	78	5.9	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	78	5.1	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	31	5.0	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	78	3.9	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	31	4.5	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	31	2.8	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	78	6.7	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	78	6.4	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	78	6.0	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	78	9.5	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	78	8.5	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	78	5.9	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	78	4.3	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	78	3.3	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	78	3.1	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	31	3.6	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	31	3.1	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	78	4.6	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	78	3.6	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	78	4.6	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	78	12	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	78	31	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	31	8.4	EPA-TO-15	ND	A01	1

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Watsonville, CA 95076

Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-01		Client Sample Name: Former Fairway Cleaners, SV-1-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	31	11	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	31	6.2	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	78	5.6	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	78	8.5	EPA-TO-15	ND	A01	1
<b>n-Heptane</b>	<b>19</b>	<b>ug/m3</b>	<b>31</b>	<b>4.6</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
Hexachlorobutadiene	ND	ug/m3	160	39	EPA-TO-15	ND	A01	1
<b>Hexane</b>	<b>48</b>	<b>ug/m3</b>	<b>78</b>	<b>3.1</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
2-Hexanone	ND	ug/m3	78	5.3	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	31	7.3	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	160	3.7	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	31	6.5	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	78	11	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	31	5.6	EPA-TO-15	ND	A01	1
<b>Propylene</b>	<b>2000</b>	<b>ug/m3</b>	<b>62</b>	<b>12</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	2
Styrene	ND	ug/m3	78	5.9	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	78	17	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	31	5.3	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	31	6.5	EPA-TO-15	ND	A01	1
<b>Toluene</b>	<b>28</b>	<b>ug/m3</b>	<b>31</b>	<b>2.9</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
1,2,4-Trichlorobenzene	ND	ug/m3	160	9.0	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	78	4.3	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	78	4.3	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	31	5.9	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	78	4.6	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	78	6.0	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	78	9.9	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	78	23	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	31	4.8	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	31	4.5	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	78	13	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	78	8.2	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	160	22	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	97.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-01	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-1-d5, 4/1/2020 12:00:00AM, Harrison Hucks
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	93.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-TO-15	04/07/20 08:56	04/07/20 13:32		BEP	MS-A1	15.500	B074789	EPA TO-15
2	EPA-TO-15	04/07/20 08:56	04/07/20 15:01		BEP	MS-A1	31	B074789	EPA TO-15

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-02		Client Sample Name: Former Fairway Cleaners, SV-1-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	36	ug/m3	79	6.2	EPA-TO-15	ND	J,A01	1
Acrylonitrile	ND	ug/m3	32	3.5	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	32	4.1	EPA-TO-15	ND	A01	1
<b>Benzene</b>	<b>23</b>	<b>ug/m3</b>	<b>32</b>	<b>2.5</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
Benzyl chloride	ND	ug/m3	160	10	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	79	6.3	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	160	11	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	32	8.7	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	32	4.0	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	32	2.5	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	79	6.0	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	79	5.2	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	32	5.1	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	79	4.0	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	32	4.6	EPA-TO-15	ND	A01	1
<b>Cyclohexane</b>	<b>95</b>	<b>ug/m3</b>	<b>32</b>	<b>2.8</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Dibromochloromethane	ND	ug/m3	79	6.8	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	79	6.5	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	79	6.2	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	79	9.6	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	79	8.7	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	79	6.0	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	79	4.4	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	79	3.3	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	79	3.2	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	32	3.6	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	32	3.2	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	79	4.7	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	79	3.6	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	79	4.7	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	79	12	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	79	32	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	32	8.5	EPA-TO-15	ND	A01	1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-02		Client Sample Name: Former Fairway Cleaners, SV-1-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	32	12	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	32	6.3	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	79	5.7	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	79	8.7	EPA-TO-15	ND	A01	1
<b>n-Heptane</b>	<b>32</b>	<b>ug/m3</b>	<b>32</b>	<b>4.7</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Hexachlorobutadiene	ND	ug/m3	160	40	EPA-TO-15	ND	A01	1
<b>Hexane</b>	<b>61</b>	<b>ug/m3</b>	<b>79</b>	<b>3.2</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
2-Hexanone	ND	ug/m3	79	5.4	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	32	7.4	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	160	3.8	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	32	6.6	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	79	11	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	32	5.7	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	32	6.3	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	79	6.0	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	79	17	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>760</b>	<b>ug/m3</b>	<b>32</b>	<b>5.4</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Tetrahydrofuran	ND	ug/m3	32	6.6	EPA-TO-15	ND	A01	1
<b>Toluene</b>	<b>87</b>	<b>ug/m3</b>	<b>32</b>	<b>3.0</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
1,2,4-Trichlorobenzene	ND	ug/m3	160	9.2	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	79	4.4	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	79	4.4	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	32	6.0	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	79	4.7	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	79	6.2	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	79	10	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	79	24	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	32	4.9	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	32	4.6	EPA-TO-15	ND	A01	1
<b>p- &amp; m-Xylenes</b>	<b>42</b>	<b>ug/m3</b>	<b>79</b>	<b>13</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
o-Xylene	ND	ug/m3	79	8.4	EPA-TO-15	ND	A01	1
<b>Total Xylenes</b>	<b>42</b>	<b>ug/m3</b>	<b>160</b>	<b>22</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
4-Bromofluorobenzene (Surrogate)	95.7	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-02	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-1-d15, 4/1/2020 12:00:00AM, Harrison Hucks
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/20 08:56	04/07/20 14:01	BEP	MS-A1	15.800	B074789 EPA TO-15

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-03		Client Sample Name: Former Fairway Cleaners, SV-2-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	62	ug/m3	80	6.2	EPA-TO-15	ND	J,A01	1
Acrylonitrile	ND	ug/m3	32	3.5	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	32	4.2	EPA-TO-15	ND	A01	1
Benzene	330	ug/m3	32	2.6	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	160	10	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	80	6.4	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	160	11	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	32	8.8	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	32	4.0	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	32	2.6	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	80	6.1	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	80	5.3	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	32	5.1	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	80	4.0	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	32	4.6	EPA-TO-15	ND	A01	1
Cyclohexane	99	ug/m3	32	2.9	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	80	6.9	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	80	6.6	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	80	6.2	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	80	9.8	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	80	8.8	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	80	6.1	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	80	4.5	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	80	3.4	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	80	3.2	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	32	3.7	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	32	3.2	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	80	4.8	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	80	3.7	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	80	4.8	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	80	12	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	80	32	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	32	8.6	EPA-TO-15	ND	A01	1

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Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2009861-03							
Client Sample Name:	Former Fairway Cleaners, SV-2-d5, 4/1/2020 12:00:00AM, Harrison Hucks							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	810	ug/m3	32	12	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	32	6.4	EPA-TO-15	ND	A01	1
Ethylbenzene	190	ug/m3	80	5.8	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	72	ug/m3	80	8.8	EPA-TO-15	ND	J,A01	1
n-Heptane	490	ug/m3	32	4.8	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	160	40	EPA-TO-15	ND	A01	1
Hexane	150	ug/m3	80	3.2	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	80	5.4	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	32	7.5	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	160	3.8	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	32	6.7	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	80	11	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	32	5.8	EPA-TO-15	ND	A01	1
Propylene	360	ug/m3	32	6.4	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	80	6.1	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	80	18	EPA-TO-15	ND	A01	1
Tetrachloroethene	130	ug/m3	32	5.4	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	32	6.7	EPA-TO-15	ND	A01	1
Toluene	1900	ug/m3	32	3.0	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	160	9.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	80	4.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	80	4.5	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	32	6.1	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	80	4.8	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	80	6.2	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	71	ug/m3	80	10	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	34	ug/m3	80	24	EPA-TO-15	ND	J,A01	1
Vinyl acetate	ND	ug/m3	32	5.0	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	32	4.6	EPA-TO-15	ND	A01	1
p- & m-Xylenes	680	ug/m3	80	13	EPA-TO-15	ND	A01	1
o-Xylene	200	ug/m3	80	8.5	EPA-TO-15	ND	A01	1
<b>Total Xylenes</b>	<b>870</b>	<b>ug/m3</b>	<b>160</b>	<b>22</b>	<b>EPA-TO-15</b>	<b>ND</b>	<b>A01</b>	<b>1</b>
4-Bromofluorobenzene (Surrogate)	97.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-03	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-2-d5, 4/1/2020 12:00:00AM, Harrison Hucks
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/20 08:56	04/07/20 14:31	BEP	MS-A1	16	B074789 EPA TO-15

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Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-04		Client Sample Name: Former Fairway Cleaners, SV-2-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	760	59	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	300	33	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	300	39	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	300	24	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	1500	95	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	760	60	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	1500	110	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	300	83	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	300	38	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	300	24	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	760	57	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	760	50	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	300	48	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	760	38	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	300	44	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	300	27	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	760	65	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	760	62	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	760	59	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	760	92	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	760	83	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	760	57	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	760	42	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	760	32	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	760	30	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	300	35	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	300	30	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	760	45	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	760	35	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	760	45	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	760	120	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	760	300	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	300	82	EPA-TO-15	ND	A01	1

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Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2009861-04							
Client Sample Name:	Former Fairway Cleaners, SV-2-d15, 4/1/2020 12:00:00AM, Harrison Hucks							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	300	110	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	300	60	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	760	54	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	760	83	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	300	45	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	1500	380	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	760	30	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	760	51	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	300	71	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	1500	36	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	300	63	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	760	110	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	300	54	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	300	60	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	760	57	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	760	170	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>38000</b>	<b>ug/m3</b>	<b>300</b>	<b>51</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Tetrahydrofuran	ND	ug/m3	300	63	EPA-TO-15	ND	A01	1
<b>Toluene</b>	<b>170</b>	<b>ug/m3</b>	<b>300</b>	<b>29</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
1,2,4-Trichlorobenzene	ND	ug/m3	1500	88	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	760	42	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	760	42	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	300	57	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	760	45	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	760	59	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	760	97	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	760	230	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	300	47	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	300	44	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	760	130	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	760	80	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	1500	210	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-04	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-2-d15, 4/1/2020 12:00:00AM, Harrison Hucks
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/20 08:56	04/07/20 17:32	BEP	MS-A1	151	B074789 EPA TO-15

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-05		Client Sample Name: Former Fairway Cleaners, SV-3-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	120	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	30	3.3	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	30	3.9	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	30	2.4	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	150	9.4	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	75	6.0	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	150	11	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	30	8.2	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	30	3.8	EPA-TO-15	ND	A01	1
<b>Carbon disulfide</b>	<b>21</b>	<b>ug/m3</b>	<b>30</b>	<b>2.4</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
Carbon tetrachloride	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	75	5.0	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	30	4.8	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	75	3.8	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	30	4.4	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	30	2.7	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	75	6.4	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	75	6.2	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	75	9.2	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	75	8.2	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	75	3.2	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	75	3.0	EPA-TO-15	ND	A01	1
<b>cis-1,2-Dichloroethene</b>	<b>21</b>	<b>ug/m3</b>	<b>30</b>	<b>3.4</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
trans-1,2-Dichloroethene	ND	ug/m3	30	3.0	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	75	3.4	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	75	12	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	75	30	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	30	8.1	EPA-TO-15	ND	A01	1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-05		Client Sample Name: Former Fairway Cleaners, SV-3-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	30	11	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	30	6.0	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	75	5.4	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	75	8.2	EPA-TO-15	ND	A01	1
<b>n-Heptane</b>	<b>15</b>	<b>ug/m3</b>	<b>30</b>	<b>4.5</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
Hexachlorobutadiene	ND	ug/m3	150	38	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	75	3.0	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	75	5.1	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	30	7.0	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	150	3.6	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	30	6.3	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	75	10	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	30	5.4	EPA-TO-15	ND	A01	1
<b>Propylene</b>	<b>400</b>	<b>ug/m3</b>	<b>30</b>	<b>6.0</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Styrene	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	75	16	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>250</b>	<b>ug/m3</b>	<b>30</b>	<b>5.1</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Tetrahydrofuran	ND	ug/m3	30	6.3	EPA-TO-15	ND	A01	1
<b>Toluene</b>	<b>82</b>	<b>ug/m3</b>	<b>30</b>	<b>2.8</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
1,2,4-Trichlorobenzene	ND	ug/m3	150	8.7	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	30	5.7	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	75	9.6	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	75	22	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	30	4.6	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	30	4.4	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	75	12	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	75	8.0	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	150	21	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	95.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-05	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-3-d5, 4/1/2020 12:00:00AM, Harrison Hucks
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/20 08:56	04/07/20 15:29	BEP	MS-A1	15	B074789 EPA TO-15

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Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-06		Client Sample Name: Former Fairway Cleaners, SV-3-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	720	56	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	290	32	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	290	37	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	290	23	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	1400	91	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	720	58	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	1400	100	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	290	79	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	290	36	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	290	23	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	720	55	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	720	48	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	290	46	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	720	36	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	290	42	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	290	26	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	720	62	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	720	59	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	720	56	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	720	88	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	720	79	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	720	55	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	720	40	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	720	30	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	720	29	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	290	33	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	290	29	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	720	43	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	720	33	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	720	43	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	720	110	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	720	290	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	290	78	EPA-TO-15	ND	A01	1

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Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-06		Client Sample Name: Former Fairway Cleaners, SV-3-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	290	110	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	290	58	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	720	52	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	720	79	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	290	43	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	1400	360	EPA-TO-15	ND	A01	1
<b>Hexane</b>	<b>470</b>	<b>ug/m3</b>	<b>720</b>	<b>29</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
2-Hexanone	ND	ug/m3	720	49	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	290	68	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	1400	35	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	290	60	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	720	100	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	290	52	EPA-TO-15	ND	A01	1
<b>Propylene</b>	<b>150</b>	<b>ug/m3</b>	<b>290</b>	<b>58</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
Styrene	ND	ug/m3	720	55	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	720	160	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>110000</b>	<b>ug/m3</b>	<b>2900</b>	<b>490</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	2
Tetrahydrofuran	ND	ug/m3	290	60	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3	290	27	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	1400	84	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	720	40	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	720	40	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	290	55	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	720	43	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	720	56	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	720	92	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	720	220	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	290	45	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	290	42	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	720	120	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	720	76	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	1400	200	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	106	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-06	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-3-d15, 4/1/2020 12:00:00AM, Harrison Hucks
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	96.2	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-TO-15	04/07/20 08:56	04/07/20 18:07		BEP	MS-A1	144	B074789	EPA TO-15
2	EPA-TO-15	04/07/20 08:56	04/07/20 21:21		BEP	MS-A1	1440	B074789	EPA TO-15

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-07		Client Sample Name: Former Fairway Cleaners, SV-4-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	150	ug/m3	80	6.2	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	32	3.5	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	32	4.1	EPA-TO-15	ND	A01	1
Benzene	150	ug/m3	32	2.5	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	160	10	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	80	6.4	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	160	11	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	32	8.7	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	32	4.0	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	32	2.5	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	80	6.0	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	80	5.2	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	32	5.1	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	80	4.0	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	32	4.6	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	32	2.9	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	80	6.8	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	80	6.5	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	80	6.2	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	80	9.7	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	80	8.7	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	80	6.0	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	80	4.5	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	80	3.3	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	80	3.2	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	32	3.7	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	32	3.2	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	80	4.8	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	80	3.7	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	80	4.8	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	80	12	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	80	32	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	32	8.6	EPA-TO-15	ND	A01	1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2009861-07							
Client Sample Name:	Former Fairway Cleaners, SV-4-d5, 4/1/2020 12:00:00AM, Harrison Hucks							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	63	ug/m3	32	12	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	32	6.4	EPA-TO-15	ND	A01	1
Ethylbenzene	81	ug/m3	80	5.7	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	28	ug/m3	80	8.7	EPA-TO-15	ND	J,A01	1
n-Heptane	180	ug/m3	32	4.8	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	160	40	EPA-TO-15	ND	A01	1
Hexane	79	ug/m3	80	3.2	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	80	5.4	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	32	7.5	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	160	3.8	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	32	6.7	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	80	11	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	32	5.7	EPA-TO-15	ND	A01	1
Propylene	2800	ug/m3	64	13	EPA-TO-15	ND	A01	2
Styrene	ND	ug/m3	80	6.0	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	80	17	EPA-TO-15	ND	A01	1
Tetrachloroethene	130	ug/m3	32	5.4	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	32	6.7	EPA-TO-15	ND	A01	1
Toluene	810	ug/m3	32	3.0	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	160	9.2	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	80	4.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	80	4.5	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	32	6.0	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	80	4.8	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	80	6.2	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	26	ug/m3	80	10	EPA-TO-15	ND	J,A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	80	24	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	32	4.9	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	32	4.6	EPA-TO-15	ND	A01	1
p- & m-Xylenes	280	ug/m3	80	13	EPA-TO-15	ND	A01	1
o-Xylene	83	ug/m3	80	8.4	EPA-TO-15	ND	A01	1
<b>Total Xylenes</b>	<b>370</b>	<b>ug/m3</b>	<b>160</b>	<b>22</b>	<b>EPA-TO-15</b>	<b>ND</b>	<b>A01</b>	<b>1</b>
4-Bromofluorobenzene (Surrogate)	97.8	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-07	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-4-d5, 4/1/2020 12:00:00AM, Harrison Hucks
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-TO-15	04/07/20 08:56	04/07/20	15:58	BEP	MS-A1	15.900	B074789	EPA TO-15
2	EPA-TO-15	04/07/20 08:56	04/07/20	22:55	BEP	MS-A1	31.800	B074789	EPA TO-15

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Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-08	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-4-d15, 4/1/2020 12:00:00AM, Harrison Hucks
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	780	61	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	310	35	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	310	41	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	310	25	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	1600	99	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	780	63	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	1600	110	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	310	86	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	310	39	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	310	25	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	780	60	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	780	52	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	310	50	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	780	39	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	310	46	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	310	28	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	780	68	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	780	64	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	780	61	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	780	96	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	780	86	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	780	60	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	780	44	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	780	33	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	780	31	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	310	36	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	310	31	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	780	47	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	780	36	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	780	47	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	780	120	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	780	310	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	310	85	EPA-TO-15	ND	A01	1

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120 Westgate Drive  
Watsonville, CA 95076

Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-08		Client Sample Name: Former Fairway Cleaners, SV-4-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	310	120	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	310	63	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	780	57	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	780	86	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	310	47	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	1600	390	EPA-TO-15	ND	A01	1
<b>Hexane</b>	<b>770</b>	<b>ug/m3</b>	<b>780</b>	<b>31</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
2-Hexanone	ND	ug/m3	780	53	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	310	74	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	1600	38	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	310	66	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	780	110	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	310	57	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	310	63	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	780	60	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	780	170	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>43000</b>	<b>ug/m3</b>	<b>310</b>	<b>53</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Tetrahydrofuran	ND	ug/m3	310	66	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3	310	30	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	1600	91	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	780	44	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	780	44	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	310	60	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	780	47	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	780	61	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	780	100	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	780	240	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	310	49	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	310	46	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	780	130	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	780	83	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	1600	220	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	108	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Weber, Hayes & Associates  
120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-08	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-4-d15, 4/1/2020 12:00:00AM, Harrison Hucks
----------------------------------	---

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/20 08:56	04/07/20 18:43	BEP	MS-A1	157	B074789 EPA TO-15

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-09		Client Sample Name: Former Fairway Cleaners, SV-5-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	30	3.3	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	30	3.9	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	30	2.4	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	150	9.4	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	75	6.0	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	150	11	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	30	8.2	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	30	3.8	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	30	2.4	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	75	5.0	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	30	4.8	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	75	3.8	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	30	4.4	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	30	2.7	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	75	6.4	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	75	6.2	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	75	9.2	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	75	8.2	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	75	3.2	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	75	3.0	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	30	3.4	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	30	3.0	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	75	3.4	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	75	12	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	75	30	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	30	8.1	EPA-TO-15	ND	A01	1

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Watsonville, CA 95076

Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-09		Client Sample Name: Former Fairway Cleaners, SV-5-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	30	11	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	30	6.0	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	75	5.4	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	75	8.2	EPA-TO-15	ND	A01	1
<b>n-Heptane</b>	<b>16</b>	<b>ug/m3</b>	<b>30</b>	<b>4.5</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
Hexachlorobutadiene	ND	ug/m3	150	38	EPA-TO-15	ND	A01	1
<b>Hexane</b>	<b>46</b>	<b>ug/m3</b>	<b>75</b>	<b>3.0</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
2-Hexanone	ND	ug/m3	75	5.1	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	30	7.0	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	150	3.6	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	30	6.3	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	75	10	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	30	5.4	EPA-TO-15	ND	A01	1
<b>Propylene</b>	<b>230</b>	<b>ug/m3</b>	<b>30</b>	<b>6.0</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Styrene	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	75	16	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>100</b>	<b>ug/m3</b>	<b>30</b>	<b>5.1</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Tetrahydrofuran	ND	ug/m3	30	6.3	EPA-TO-15	ND	A01	1
<b>Toluene</b>	<b>18</b>	<b>ug/m3</b>	<b>30</b>	<b>2.8</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
1,2,4-Trichlorobenzene	ND	ug/m3	150	8.7	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	30	5.7	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	75	9.6	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	75	22	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	30	4.6	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	30	4.4	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	75	12	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	75	8.0	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	150	21	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	93.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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120 Westgate Drive  
Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-09	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-5-d5, 4/1/2020 12:00:00AM, Harrison Hucks
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/20 08:56	04/07/20 16:28	BEP	MS-A1	15	B074789 EPA TO-15

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Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-10		Client Sample Name: Former Fairway Cleaners, SV-5-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	770	60	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	310	34	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	310	40	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	310	25	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	1500	97	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	770	62	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	1500	110	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	310	85	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	310	38	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	310	25	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	770	59	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	770	51	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	310	49	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	770	38	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	310	45	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	310	28	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	770	66	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	770	63	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	770	60	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	770	94	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	770	85	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	770	59	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	770	43	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	770	32	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	770	31	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	310	35	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	310	31	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	770	46	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	770	35	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	770	46	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	770	120	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	770	310	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	310	83	EPA-TO-15	ND	A01	1

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Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-10		Client Sample Name: Former Fairway Cleaners, SV-5-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	310	110	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	310	62	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	770	55	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	770	85	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	310	46	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	1500	380	EPA-TO-15	ND	A01	1
<b>Hexane</b>	<b>910</b>	<b>ug/m3</b>	<b>770</b>	<b>31</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
2-Hexanone	ND	ug/m3	770	52	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	310	72	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	1500	37	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	310	65	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	770	110	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	310	55	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	310	62	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	770	59	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	770	170	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>64000</b>	<b>ug/m3</b>	<b>3100</b>	<b>520</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	2
Tetrahydrofuran	ND	ug/m3	310	65	EPA-TO-15	ND	A01	1
<b>Toluene</b>	<b>170</b>	<b>ug/m3</b>	<b>310</b>	<b>29</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
1,2,4-Trichlorobenzene	ND	ug/m3	1500	89	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	770	43	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	770	43	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	310	59	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	770	46	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	770	60	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	770	99	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	770	230	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	310	48	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	310	45	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	770	130	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	770	82	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	1500	220	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	108	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Watsonville, CA 95076

**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-10	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-5-d15, 4/1/2020 12:00:00AM, Harrison Hucks
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	100	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-TO-15	04/07/20 08:56	04/07/20	19:18	BEP	MS-A1	154	B074789	EPA TO-15
2	EPA-TO-15	04/07/20 08:56	04/07/20	21:50	BEP	MS-A1	1540	B074789	EPA TO-15

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-11		Client Sample Name: Former Fairway Cleaners, SV-6-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	76	6.0	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	31	3.4	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	31	4.0	EPA-TO-15	ND	A01	1
<b>Benzene</b>	<b>10</b>	<b>ug/m3</b>	<b>31</b>	<b>2.4</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
Benzyl chloride	ND	ug/m3	150	9.6	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	76	6.1	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	150	11	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	31	8.4	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	31	3.8	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	31	2.4	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	76	5.8	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	76	5.0	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	31	4.9	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	76	3.8	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	31	4.4	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	31	2.8	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	76	6.6	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	76	6.3	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	76	6.0	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	76	9.3	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	76	8.4	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	76	5.8	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	76	4.3	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	76	3.2	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	76	3.1	EPA-TO-15	ND	A01	1
<b>cis-1,2-Dichloroethene</b>	<b>170</b>	<b>ug/m3</b>	<b>31</b>	<b>3.5</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
trans-1,2-Dichloroethene	ND	ug/m3	31	3.1	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	76	4.6	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	76	3.5	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	76	4.6	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	76	12	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	76	31	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	31	8.3	EPA-TO-15	ND	A01	1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-11		Client Sample Name: Former Fairway Cleaners, SV-6-d5, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	31	11	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	31	6.1	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	76	5.5	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	76	8.4	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	31	4.6	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	150	38	EPA-TO-15	ND	A01	1
<b>Hexane</b>	<b>41</b>	<b>ug/m3</b>	<b>76</b>	<b>3.1</b>	<b>EPA-TO-15</b>	ND	<b>J,A01</b>	1
2-Hexanone	ND	ug/m3	76	5.2	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	31	7.2	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	150	3.7	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	31	6.4	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	76	11	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	31	5.5	EPA-TO-15	ND	A01	1
<b>Propylene</b>	<b>220</b>	<b>ug/m3</b>	<b>31</b>	<b>6.1</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Styrene	ND	ug/m3	76	5.8	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	76	17	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>1400</b>	<b>ug/m3</b>	<b>31</b>	<b>5.2</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Tetrahydrofuran	ND	ug/m3	31	6.4	EPA-TO-15	ND	A01	1
<b>Toluene</b>	<b>37</b>	<b>ug/m3</b>	<b>31</b>	<b>2.9</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
1,2,4-Trichlorobenzene	ND	ug/m3	150	8.9	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	76	4.3	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	76	4.3	EPA-TO-15	ND	A01	1
<b>Trichloroethene</b>	<b>120</b>	<b>ug/m3</b>	<b>31</b>	<b>5.8</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	1
Trichlorofluoromethane	ND	ug/m3	76	4.6	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	76	6.0	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	76	9.8	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	76	23	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	31	4.7	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	31	4.4	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	76	13	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	76	8.1	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	150	21	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	93.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-11	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-6-d5, 4/1/2020 12:00:00AM, Harrison Hucks
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/20 08:56	04/07/20 16:57	BEP	MS-A1	15.300	B074789 EPA TO-15

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-12	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-6-d15, 4/1/2020 12:00:00AM, Harrison Hucks
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	740	58	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	300	33	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	300	38	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	300	24	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	1500	93	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	740	59	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	1500	110	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	300	81	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	300	37	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	300	24	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	740	56	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	740	49	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	300	47	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	740	37	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	300	43	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	300	27	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	740	64	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	740	61	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	740	58	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	740	90	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	740	81	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	740	56	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	740	41	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	740	31	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	740	30	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	300	34	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	300	30	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	740	44	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	740	34	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	740	44	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	740	110	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	740	300	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	300	80	EPA-TO-15	ND	A01	1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-12		Client Sample Name: Former Fairway Cleaners, SV-6-d15, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	ND	ug/m3	300	110	EPA-TO-15	ND	A01	1
Ethyl acetate	ND	ug/m3	300	59	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	740	53	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	740	81	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	300	44	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	1500	370	EPA-TO-15	ND	A01	1
Hexane	ND	ug/m3	740	30	EPA-TO-15	ND	A01	1
2-Hexanone	ND	ug/m3	740	50	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	300	70	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	1500	36	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	300	62	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	740	100	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	300	53	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	300	59	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	740	56	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	740	160	EPA-TO-15	ND	A01	1
<b>Tetrachloroethene</b>	<b>1500000</b>	<b>ug/m3</b>	<b>30000</b>	<b>5000</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	<b>2</b>
Tetrahydrofuran	ND	ug/m3	300	62	EPA-TO-15	ND	A01	1
<b>Toluene</b>	<b>300</b>	<b>ug/m3</b>	<b>300</b>	<b>28</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	<b>1</b>
1,2,4-Trichlorobenzene	ND	ug/m3	1500	86	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	740	41	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	740	41	EPA-TO-15	ND	A01	1
<b>Trichloroethene</b>	<b>1600</b>	<b>ug/m3</b>	<b>300</b>	<b>56</b>	<b>EPA-TO-15</b>	ND	<b>A01</b>	<b>1</b>
Trichlorofluoromethane	ND	ug/m3	740	44	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	740	58	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	740	95	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	740	220	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	300	46	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	300	43	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	740	120	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	740	78	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	1500	210	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	112	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-12	<b>Client Sample Name:</b> Former Fairway Cleaners, SV-6-d15, 4/1/2020 12:00:00AM, Harrison Hucks
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Bromofluorobenzene (Surrogate)	109	%	70 - 130 (LCL - UCL)		EPA-TO-15			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-TO-15	04/07/20 08:56	04/07/20	19:54	BEP	MS-A1	148	B074789	EPA TO-15
2	EPA-TO-15	04/07/20 08:56	04/07/20	22:25	BEP	MS-A1	14800	B074789	EPA TO-15

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120 Westgate Drive  
Watsonville, CA 95076

Reported: 04/08/2020 14:55  
Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-13		Client Sample Name: Former Fairway Cleaners, DUP-A, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	79	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	30	3.3	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	30	3.9	EPA-TO-15	ND	A01	1
Benzene	ND	ug/m3	30	2.4	EPA-TO-15	ND	A01	1
Benzyl chloride	ND	ug/m3	150	9.4	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	75	6.0	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	150	11	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	30	8.2	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	30	3.8	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	30	2.4	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	75	5.0	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	30	4.8	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	75	3.8	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	30	4.4	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	30	2.7	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	75	6.4	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	75	6.2	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	75	9.2	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	75	8.2	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	75	3.2	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	75	3.0	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	30	3.4	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	30	3.0	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	75	3.4	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	75	12	EPA-TO-15	ND	A01	1
1,1-Difluoroethane	ND	ug/m3	75	30	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	30	8.1	EPA-TO-15	ND	A01	1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2009861-13		Client Sample Name: Former Fairway Cleaners, DUP-A, 4/1/2020 12:00:00AM, Harrison Hucks						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethanol	14	ug/m3	30	11	EPA-TO-15	ND	J,A01	1
Ethyl acetate	ND	ug/m3	30	6.0	EPA-TO-15	ND	A01	1
Ethylbenzene	81	ug/m3	75	5.4	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	170	ug/m3	75	8.2	EPA-TO-15	ND	A01	1
n-Heptane	18	ug/m3	30	4.5	EPA-TO-15	ND	J,A01	1
Hexachlorobutadiene	ND	ug/m3	150	38	EPA-TO-15	ND	A01	1
Hexane	53	ug/m3	75	3.0	EPA-TO-15	ND	J,A01	1
2-Hexanone	ND	ug/m3	75	5.1	EPA-TO-15	ND	A01	1
Isopropyl alcohol	220	ug/m3	30	7.0	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	150	3.6	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	30	6.3	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	75	10	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	30	5.4	EPA-TO-15	ND	A01	1
Propylene	270	ug/m3	30	6.0	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	75	5.7	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	75	16	EPA-TO-15	ND	A01	1
Tetrachloroethene	130	ug/m3	30	5.1	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	30	6.3	EPA-TO-15	ND	A01	1
Toluene	21	ug/m3	30	2.8	EPA-TO-15	ND	J,A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	150	8.7	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	75	4.2	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	30	5.7	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	75	4.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	75	5.8	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	210	ug/m3	75	9.6	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	56	ug/m3	75	22	EPA-TO-15	ND	J,A01	1
Vinyl acetate	ND	ug/m3	30	4.6	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	30	4.4	EPA-TO-15	ND	A01	1
p- & m-Xylenes	240	ug/m3	75	12	EPA-TO-15	ND	A01	1
o-Xylene	74	ug/m3	75	8.0	EPA-TO-15	ND	J,A01	1
<b>Total Xylenes</b>	<b>310</b>	<b>ug/m3</b>	<b>150</b>	<b>21</b>	<b>EPA-TO-15</b>	<b>ND</b>	<b>A01</b>	<b>1</b>
4-Bromofluorobenzene (Surrogate)	102	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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**Reported:** 04/08/2020 14:55  
**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

### Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

<b>BCL Sample ID:</b> 2009861-13	<b>Client Sample Name:</b> Former Fairway Cleaners, DUP-A, 4/1/2020 12:00:00AM, Harrison Hucks
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/20 08:56	04/07/20 20:52	BEP	MS-A1	15	B074789 EPA TO-15

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**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B074789</b>						
Acetone	B074789-BLK1	ND	ug/m3	5.0	0.39	
Acrylonitrile	B074789-BLK1	ND	ug/m3	2.0	0.22	
Allyl chloride	B074789-BLK1	ND	ug/m3	2.0	0.26	
Benzene	B074789-BLK1	ND	ug/m3	2.0	0.16	
Benzyl chloride	B074789-BLK1	ND	ug/m3	10	0.63	
Bromodichloromethane	B074789-BLK1	ND	ug/m3	5.0	0.40	
Bromoform	B074789-BLK1	ND	ug/m3	10	0.71	
Bromomethane	B074789-BLK1	ND	ug/m3	2.0	0.55	
1,3-Butadiene	B074789-BLK1	ND	ug/m3	2.0	0.25	
Carbon disulfide	B074789-BLK1	ND	ug/m3	2.0	0.16	
Carbon tetrachloride	B074789-BLK1	ND	ug/m3	5.0	0.38	
Chlorobenzene	B074789-BLK1	ND	ug/m3	5.0	0.33	
Chloroethane	B074789-BLK1	ND	ug/m3	2.0	0.32	
Chloroform	B074789-BLK1	ND	ug/m3	5.0	0.25	
Chloromethane	B074789-BLK1	ND	ug/m3	2.0	0.29	
Cyclohexane	B074789-BLK1	ND	ug/m3	2.0	0.18	
Dibromochloromethane	B074789-BLK1	ND	ug/m3	5.0	0.43	
1,2-Dibromoethane	B074789-BLK1	ND	ug/m3	5.0	0.41	
1,2-Dichlorobenzene	B074789-BLK1	ND	ug/m3	5.0	0.39	
1,3-Dichlorobenzene	B074789-BLK1	ND	ug/m3	5.0	0.61	
1,4-Dichlorobenzene	B074789-BLK1	ND	ug/m3	5.0	0.55	
Dichlorodifluoromethane	B074789-BLK1	ND	ug/m3	5.0	0.38	
1,1-Dichloroethane	B074789-BLK1	ND	ug/m3	5.0	0.28	
1,2-Dichloroethane	B074789-BLK1	ND	ug/m3	5.0	0.21	
1,1-Dichloroethene	B074789-BLK1	ND	ug/m3	5.0	0.20	
cis-1,2-Dichloroethene	B074789-BLK1	ND	ug/m3	2.0	0.23	
trans-1,2-Dichloroethene	B074789-BLK1	ND	ug/m3	2.0	0.20	
1,2-Dichloropropane	B074789-BLK1	ND	ug/m3	5.0	0.30	
cis-1,3-Dichloropropene	B074789-BLK1	ND	ug/m3	5.0	0.23	
trans-1,3-Dichloropropene	B074789-BLK1	ND	ug/m3	5.0	0.30	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	B074789-BLK1	ND	ug/m3	5.0	0.77	
1,1-Difluoroethane	B074789-BLK1	ND	ug/m3	5.0	2.0	
1,4-Dioxane	B074789-BLK1	ND	ug/m3	2.0	0.54	
Ethanol	B074789-BLK1	ND	ug/m3	2.0	0.74	

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Project: Air Samples - COELT  
Project Number: Former Fairway Cleaners - 2T009b  
Project Manager: Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B074789</b>						
Ethyl acetate	B074789-BLK1	ND	ug/m3	2.0	0.40	
Ethylbenzene	B074789-BLK1	ND	ug/m3	5.0	0.36	
1-Ethyl-4-methylbenzene	B074789-BLK1	ND	ug/m3	5.0	0.55	
n-Heptane	B074789-BLK1	ND	ug/m3	2.0	0.30	
Hexachlorobutadiene	B074789-BLK1	ND	ug/m3	10	2.5	
Hexane	B074789-BLK1	ND	ug/m3	5.0	0.20	
2-Hexanone	B074789-BLK1	ND	ug/m3	5.0	0.34	
Isopropyl alcohol	B074789-BLK1	ND	ug/m3	2.0	0.47	
Methylene chloride	B074789-BLK1	ND	ug/m3	10	0.24	
Methyl ethyl ketone	B074789-BLK1	ND	ug/m3	2.0	0.42	
Methyl isobutyl ketone	B074789-BLK1	ND	ug/m3	5.0	0.70	
Methyl t-butyl ether	B074789-BLK1	ND	ug/m3	2.0	0.36	
Propylene	B074789-BLK1	ND	ug/m3	2.0	0.40	
Styrene	B074789-BLK1	ND	ug/m3	5.0	0.38	
1,1,2,2-Tetrachloroethane	B074789-BLK1	ND	ug/m3	5.0	1.1	
Tetrachloroethene	B074789-BLK1	ND	ug/m3	2.0	0.34	
Tetrahydrofuran	B074789-BLK1	ND	ug/m3	2.0	0.42	
Toluene	B074789-BLK1	ND	ug/m3	2.0	0.19	
1,2,4-Trichlorobenzene	B074789-BLK1	ND	ug/m3	10	0.58	
1,1,1-Trichloroethane	B074789-BLK1	ND	ug/m3	5.0	0.28	
1,1,2-Trichloroethane	B074789-BLK1	ND	ug/m3	5.0	0.28	
Trichloroethene	B074789-BLK1	ND	ug/m3	2.0	0.38	
Trichlorofluoromethane	B074789-BLK1	ND	ug/m3	5.0	0.30	
1,1,2-Trichloro-1,2,2-trifluoroethane	B074789-BLK1	ND	ug/m3	5.0	0.39	
1,2,4-Trimethylbenzene	B074789-BLK1	ND	ug/m3	5.0	0.64	
1,3,5-Trimethylbenzene	B074789-BLK1	ND	ug/m3	5.0	1.5	
Vinyl acetate	B074789-BLK1	ND	ug/m3	2.0	0.31	
Vinyl chloride	B074789-BLK1	ND	ug/m3	2.0	0.29	
p- & m-Xylenes	B074789-BLK1	ND	ug/m3	5.0	0.83	
o-Xylene	B074789-BLK1	ND	ug/m3	5.0	0.53	
Total Xylenes	B074789-BLK1	ND	ug/m3	10	1.4	
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B074789-BLK1</b>	<b>93.6</b>	<b>%</b>	<b>70 - 130 (LCL - UCL)</b>		

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**Project Manager:** Harrison Hucks

## Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B074789</b>										
Benzene	B074789-BS1	LCS	14.613	15.974	ug/m3	91.5		70 - 130		
	B074789-BSD1	LCSD	14.820	15.974	ug/m3	92.8	1.4	70 - 130		30
Chloroform	B074789-BS1	LCS	24.379	24.413	ug/m3	99.9		70 - 130		
	B074789-BSD1	LCSD	25.150	24.413	ug/m3	103	3.1	70 - 130		30
Ethylbenzene	B074789-BS1	LCS	20.126	21.711	ug/m3	92.7		70 - 130		
	B074789-BSD1	LCSD	20.095	21.711	ug/m3	92.6	0.2	70 - 130		30
Tetrachloroethene	B074789-BS1	LCS	31.844	33.913	ug/m3	93.9		70 - 130		
	B074789-BSD1	LCSD	32.522	33.913	ug/m3	95.9	2.1	70 - 130		30
Toluene	B074789-BS1	LCS	17.764	18.842	ug/m3	94.3		70 - 130		
	B074789-BSD1	LCSD	17.780	18.842	ug/m3	94.4	0.1	70 - 130		30
Trichloroethene	B074789-BS1	LCS	25.525	26.869	ug/m3	95.0		70 - 130		
	B074789-BSD1	LCSD	25.735	26.869	ug/m3	95.8	0.8	70 - 130		30
Trichlorofluoromethane	B074789-BS1	LCS	30.704	28.092	ug/m3	109		70 - 130		
	B074789-BSD1	LCSD	31.227	28.092	ug/m3	111	1.7	70 - 130		30
1,1,2-Trichloro-1,2,2-trifluoroethane	B074789-BS1	LCS	38.425	38.318	ug/m3	100		70 - 130		
	B074789-BSD1	LCSD	39.429	38.318	ug/m3	103	2.6	70 - 130		30
p- & m-Xylenes	B074789-BS1	LCS	42.014	43.421	ug/m3	96.8		70 - 130		
	B074789-BSD1	LCSD	42.991	43.421	ug/m3	99.0	2.3	70 - 130		30
o-Xylene	B074789-BS1	LCS	20.768	21.711	ug/m3	95.7		70 - 130		
	B074789-BSD1	LCSD	21.298	21.711	ug/m3	98.1	2.5	70 - 130		30
Total Xylenes	B074789-BS1	LCS	62.783	65.132	ug/m3	96.4		70 - 130		
	B074789-BSD1	LCSD	64.290	65.132	ug/m3	98.7	2.4	70 - 130		30
4-Bromofluorobenzene (Surrogate)	B074789-BS1	LCS	78.4	71.6	ug/m3	109		70 - 130		
	B074789-BSD1	LCSD	79.7	71.6	ug/m3	111	1.6	70 - 130		

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**Project:** Air Samples - COELT  
**Project Number:** Former Fairway Cleaners - 2T009b  
**Project Manager:** Harrison Hucks

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.