



August 4, 2023

1358.001.03

Ms. Maureen Mitchell
Fox Rothschild L.L.P.
1001 Fourth Avenue, Suite 4500
Seattle, Washington 98154

Mr. Kenneth Bloch
Keller Rohrbach L.L.P.
1201 Third Avenue, Suite 3200
Seattle, Washington 98101

**STATUS REPORT – JANUARY 2022 THROUGH JUNE 2023
MANHATTAN VILLAGE SHOPPING CENTER AND HARRIS PROPERTIES
NORMANDY PARK, WASHINGTON**

Dear Ms. Mitchell and Mr. Bloch:

PES Environmental, Inc. (PES), has prepared this letter to summarize the remediation activities performed during the January 2022 through June 2023 reporting period at the Manhattan Village Shopping Center (MVSC) property located at 17835 First Avenue South (the “MVSC property”) and the Harris property located at 17817 – 17825 First Avenue South in Normandy Park, Washington (the “Harris property”), collectively referred to as the “Property.” The location and current features of the Property are shown on Figures 1 and 2. The work was conducted in accordance with the Remedial Action Work Plan (RAWP¹), addendum to the RAWP² (RAWP Addendum No. 1), and the Operations and Maintenance Plan (O&M Plan).³ A Sampling and Analysis Plan (SAP) is included as Appendix H to the RAWP.

The following work was completed during the reporting period in accordance with the RAWP Addendum No. 1 and is described in greater detail in the following sections:

- Soil vapor extraction (SVE) system O&M including stack sampling, SVE well sampling, sub-slab soil vapor probe monitoring, installation of a new sub-slab soil vapor probe inside the Kintsugi Physical Therapy suite in the MVSC strip mall (adjacent to Four Star Cleaners), decommissioning of two sub-slab soil vapor probes

¹ PES Environmental, Inc. 2016. *Remedial Action Work Plan, Manhattan Village Shopping Center and Harris Properties, VCP NW1873, Normandy Park, Washington*. October.

² PES, 2021. *Remedial Action Workplan Addendum No. 1, Manhattan Village Shopping Center and Harris Properties, VCP NW1873, Normandy Park, Washington*. June 29.

³ PES Environmental, Inc. 2016. *Operations and Maintenance Plan, Manhattan Village Shopping Center and Harris Properties, VCP NW1873, Normandy Park, Washington*. December.

which had become unusable, disposal of SVE system condensate, and other related activities;

- The SVE system was taken off-line near the end of the reporting period so that rebound monitoring may be conducted in the sub-slab soil vapor probes as described in the RAWP Addendum No. 1;
- Decommissioning of 30 groundwater monitoring wells due to tetrachloroethene (PCE) concentrations being consistently below the Model Toxics Control Act (MTCA) Method A cleanup level; and
- Implementation of a permeable reactive barrier (PRB) was initiated during the third quarter of 2022. The work was temporarily stopped due to difficult injection conditions. Following evaluation of an alternate injection approach, implementation of the PRB was resumed on July 10, 2023 following Washington Department of Ecology (Ecology) notification on June 16, 2023.

REMEDIATION SYSTEM O&M

Remediation System Description

The expanded SVE system consists of 28 SVE wells (Figure 3). The SVE system consists of two well manifolds, positive displacement blower, inline silencers, moisture knockout, condensate storage and transfer pumps, and a discharge stack installed on a concrete pad inside a locked-fence enclosure. Each leg of the SVE manifold includes a balancing valve, sampling port, and flow and vacuum monitoring port. The discharge stack includes a temperature gauge, flow meter, sampling port, and an inline silencer. The SVE blower is mounted inside a galvanized steel and insulated enclosure to dampen the equipment noise.

The SVE wells are installed at two levels within the vadose zone. Shallow screened wells (5 to 20 ft bgs) target the upper vadose zone, and deeper screened wells (20 to 30 ft or 35 ft bgs depending on location) target the lower vadose zone. Detailed descriptions of the AS and SVE systems and O&M procedures are included in the O&M Plan.

The air sparging (AS) system was shut down in December 2018.

Operations and Maintenance

O&M activities during the reporting period included field inspections, testing, and O&M of SVE system components. Specific work included documenting and maintaining the operational status of the SVE equipment, documenting general operating conditions, and responding to system alarms.

The SVE system continued to operate at 13 wells in three areas.

- **Four Star Cleaners Area Wells.** There are seven operating wells including SVE-5, SVE-6, SVE-7, SVE-8, SVE-20, SVE-21, and SVE-22.

- **Former Manhattan Cleaners Area Wells.** There are four operating wells including SVE-10, SVE-23, SVE-24, and SVE-25.
- **QFC Area Wells.** There are two operating wells including SVE-11A and SVE-12A.

The SVE system operated with 111 days downtime during the reporting period (81 percent uptime). System shutdowns during this period were caused by power outages (8 days), failure and replacement of the blower variable frequency drive in July (VFD; 22 days), condensate system alarms high storage tank levels (7 days), pump fail to start (2 days), failure and replacement of the low-level switch in the condensate knockout vessel in March/April (28 days), and high-level in condensate storage tank pending approval of hazardous waste disposal profile approval (32 days). Other maintenance work included servicing the blower in February 2022, September 2022, and April 2023 (oil change, check/replace belts), reconnection of the auto-dialer phone service (utility mistakenly shut-off service), replacing the auto-dialer battery backup, replacing a cooling fan inside the control panel, and conducting brush and weed management on the Harris Property in 2022. The SVE system went offline in late June 2023 due to a blower low-flow alarm. The blower was inspected on July 7 (after the reporting period), briefly restarted to confirm operation after the low-flow alarm was fixed, and then shut down again.

The remediation system has operated with 89 percent uptime since start-up in 2016 (excluding the 6-month shut-down for rebound testing in 2019). The SVE system operating data is summarized in Table 1.

The SVE system operated with an average total flow rate of approximately 585 standard cubic feet per minute (scfm), with an average vacuum of 32 inches of water column (in. w.c.) at the SVE well manifold. Individual SVE wells operated with an average flow of 44 scfm per well.

SVE Sampling. Performance vapor samples are collected periodically from the SVE discharge stack and analyzed by ALS Environmental (an accredited laboratory) for volatile organic compounds (VOCs) by EPA Method TO-15 to evaluate mass removed and to verify compliance with Puget Sound Clean Air Agency (PSCAA) and Ecology discharge criteria. Samples were collected in March, June, September, and December.

Performance samples were collected from the 13 operating SVE wells in June. The PCE concentrations ranged from 36 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to $660 \mu\text{g}/\text{m}^3$ in the SVE wells. The highest concentrations were observed in the long-time operating wells including SVE-5 ($660 \mu\text{g}/\text{m}^3$) and SVE-6 ($340 \mu\text{g}/\text{m}^3$), and SVE-12A ($330 \mu\text{g}/\text{m}^3$). The PCE concentrations in the newer SVE wells installed in 2021 (SVE-20 through SVE-25 located adjacent to the commercial buildings) were slightly lower compared to 2021 (100 to $200 \mu\text{g}/\text{m}^3$).

SVE well flow rates during sampling were between 13 and 56 scfm; and the flow and PCE concentrations were used to adjust the SVE well flow rates to optimize PCE mass removal. A summary of 2022 SVE well sampling results is included in Table 2.

PCE Mass Removal. PCE concentrations in the SVE stack were highest in August 2022 ($370 \mu\text{g}/\text{m}^3$) and lowest in March 2023 ($86 \mu\text{g}/\text{m}^3$), and on average were slightly lower than the

prior reporting period. The PCE removal rates were also lower with an average mass removal rate of 0.07 pounds per day. A total of 3.9 pounds of PCE was removed during the reporting period, and a total of 130.8 pounds of PCE have been removed throughout the lifetimes of the SVE systems that operated from September 2009 through June 2023.

Charts showing SVE effluent PCE concentrations and cumulative PCE mass removal are included as Attachments A1 and A2, and historical SVE system data is included in Attachments A3 and A4. Copies of the validated laboratory analytical reports are included in Attachment B.

Regulatory Compliance. The SVE system discharge has remained in compliance with the PSCAA exemption limits of 500 pounds per year (lb/year) of total VOCs and is below the Ecology small quantity emission rate of 27 lb/year for PCE.

Sub-Slab Soil Vapor Probe Decommissioning and Installation. Two of the five sub-slab vapor monitoring points located inside Archies Mexican Restaurant, SVS-12 and SVS-16, had become unusable due to becoming clogged with floor wax. Both points were decommissioned on June 2 by extracting the vapor pin components and patching the borings flush with the slab using quick setting concrete.

Sub-slab vapor monitoring point SVS-18 was installed on September 28, 2022 within the employee break room of the Kintsugi Physical Therapy suite on MVSC Property. The physical therapy suite is located directly to the east of Four Star Cleaners near SVE-21. Installation involved drilling through the slab to a total depth of 12.5 inches below the top of the slab, assembling the vapor pin including screen, 5 extension pieces, and monitoring port.

Location of the decommissioned and new sub-slab vapor monitoring points are shown on Figure 4.

Sub-Slab Vacuum Monitoring. Sub-slab vapor monitoring points SVS-10, SVS-11, SVS-13, SVS-14, SVS-15, and SVS-18 were monitored for vacuum and field VOC concentrations multiple times throughout the reporting period (Figure 4). SVS-10 and SVS-11 are located inside the Four Star Dry Cleaners suite in the MVSC strip mall; SVS-13, SVS-14, and SVS-15 are located inside the former Manhattan Cleaners building; and SVS-18 is located inside the Kintsugi Physical Therapy suite in the MVSC strip mall.

Vacuum was recorded in all sub-slab vapor monitoring points and were between 0.1 to 0.9 in. w.c. Field VOC concentrations were measured with a photoionization detector (PID) and were generally low and within the range of typical indoor air background readings. Background adjusted PID readings were between 0 and 1 parts per million by volume (ppmv).

Soil vapor monitoring point SVS-17, located in the alley near SVE-6, was also monitored for comparison to sub-slab monitoring points. Vacuum ranged from 1.8 to 3.7 in. w.c. The field VOC concentration was 0.0 to 0.7 ppmv.

The monitoring results are included in Table 3 and historical results are included in Attachment A5.

MONITORING WELL DECOMMISSIONING

A total of 30 groundwater monitoring wells were decommissioned by Cascade Drilling, Inc. (Cascade; a Washington state licensed drilling company), in September in accordance with criteria developed in Section 5.1.1 of the RAWP Addendum No. 1. The work was coordinated with property owners including the Harris Family, Top Flight Investments (MVSC owner), City of Normandy Park, Westview Townhouses, Dunn Lumber, and the City of Normandy Park.

Three wells, MW-1, MW-2, and DC-5, required over drilling as their well identification tags were missing from Ecology's well construction database. The remaining wells were decommissioned in place by cutting the PVC well casing, filling the well with bentonite chips, capping the PVC casing with cement, and patching up to ground surface level with concrete. The thirteen wells located within paved areas including MW-3, MW-8, MW-12, MW-13, DC-1, DC-2, DC-3, KMW-4, KMW-5, KMW-5D, and KMW-6 also had their metal monuments completely removed prior to decommissioning in place. In asphalt areas, the concrete was dyed black to match asphalt. MW-6 on Dunn Lumber property was not able to be decommissioned because access approval was not secured until after Cascade was offsite. Table C1 and Figures 3 and 4 have been updated to reflect current conditions.

GROUNDWATER SAMPLING

Groundwater sampling was not conducted in 2022. The next round of sampling is scheduled to be completed after the PRB is installed in July 2023. Historical groundwater sampling results, soil sample analytical results, and soil vapor sampling results are included in Attachment C for reference.

RESIDUALS MANAGEMENT AND DISPOSAL

Residuals accumulated during the reporting period included SVE system condensate and soil and decontamination water from monitoring well decommissioning. SVE system condensate is managed within the operating SVE system until sufficient volume can be generated for disposal and a waste profile sample is collected shortly prior to disposal. A total of 1,595 gallons of SVE system condensate were disposed of as non-hazardous wastewater by Marine Vacuum Service, Inc. in 2022; and 2,133 gallons of SVE system condensate, groundwater sampling purge water, and monitoring well decommissioning decontamination water was disposed as F-listed hazardous waste in February 2023. Eight (8) 55-gallon drums of soil from decommissioning groundwater monitoring wells were disposed of as F-listed hazardous waste after the reporting period on July 6, 2023.

Copies of disposal documentation including disposal manifests and copies of laboratory reports containing waste profile data are included in Attachment E. Manifest for the 2023 disposals were not available prior to preparing this report. The manifests and disposal profiling laboratory reports will be included in the next status report.

PERMEABLE REACTIVE BARRIER IMPLEMENTATION INITIATION

Implementation of the PRB on the Harris Property near the northern property line (Figure 5) was initiated in late August and September 2022 in accordance with the procedures described in Section 4.1.3 of the RAWP Addendum No. 1. The work included Underground Injection Control (UIC) program permitting, preparing the PRB work area (cutting down several trees and trimming back overgrown trees and brush), initiating injection of BOS 100[®] using both 2.25-inch and 1.5-inch injection tooling, and testing of an alternate two-step injection approach. Due to difficult injection conditions, a two-step injection technique was developed to facilitate more reliable injection of the BOS 100[®] PRB media. The two-step technique included pre-installing bentonite filled 2.25-inch diameter pilot borings to serve as conduits for injecting the PRB media into the saturated target zones using 1.5-inch diameter injection tooling.

Following field testing of the two-step injection technique, the PRB implementation work was temporarily stopped to allow time to evaluate and refine an injection program using the two-step technique. The PRB implementation has been scheduled to resume in July 2023. Per the conditional UIC approval (Attachment D), the minor changes to the injection program described in RAWP Addendum No. 1 were discussed with the Ecology Voluntary Cleanup Program (VCP) Site manager, Mr. Chris Maurer on June 16, 2023, documented in an e-mail, and followed-up with phone call on August 3, 2023 to discuss status of the PRB installation. Mr. Maurer agreed that the change in injection procedure appears to give the PRB a higher chance of success, and that if the PRB is not successful, that a modified approach will be evaluated. The two new PRB groundwater monitoring wells will be installed following completion of the PRB.

A detailed and comprehensive description of the PRB implementation work completed in 2022 and 2023 will be included in the next status report.

SUMMARY AND CONCLUSIONS

The following includes a brief summary and conclusions for the work completed during the reporting period.

- The SVE system continued to operate. SVE discharge stack concentrations and PCE mass removal rates are low (up to 370 $\mu\text{g}/\text{m}^3$ and 0.018 lb/day, respectively), even after the addition of the five SVE wells in 2021 near the Four Star Cleaners and the former Manhattan Cleaners. Sub-slab soil vapor monitoring probes inside Four Star Cleaners and Archies Mexican Restaurant continue to show vacuum influence from the nearby operating SVE wells.
- Due to declining and asymptotic PCE removal rates (see Attachments A1 and A2), the SVE system has been shutdown to conduct rebound testing by monitoring sub-slab vapors as described Section 5.1.5 of the RAWP Addendum No. 1. As shown in Table C5 in Attachment C, none of the prior sub-slab soil gas results from 2019 exceeded the current screening levels for commercial workers. We would recommend

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leaving the SVE system offline if sub-slab soil gas results continue to stay below screening levels.

- Thirty groundwater monitoring wells were decommissioned due to PCE concentrations being consistently below the MTCA Method A cleanup level.
- Implementation of the BOS 100[®] PRB was initiated during the third quarter and then temporarily stopped to allow time for evaluating an alternative injection approach. Implementation of the PRB resumed in July 2023. Ecology has agreed that the modified injection procedure appears to give the PRB a higher chance of success.

PES appreciates the opportunity to work on this project. If you have any questions regarding this report, or need any additional information, please feel free to contact either of us at (206) 529-3980.

Sincerely,

PES ENVIRONMENTAL, INC., an NV5 company



Matthew Dahl, P.E.
Associate Engineer

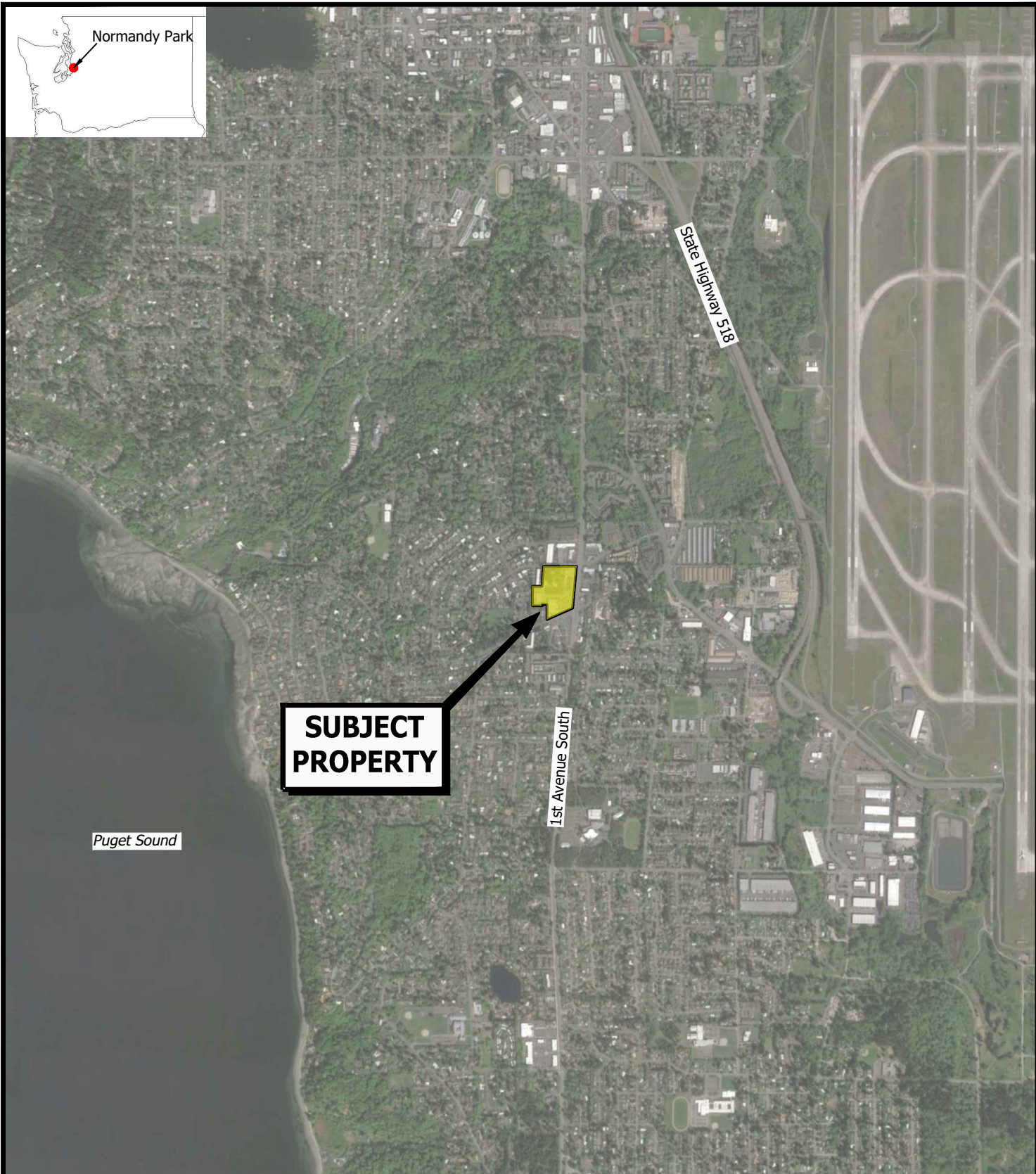
Attachments: List of Abbreviations
Figures 1 through 5
Tables 1 through 3
Attachment A through E

LIST OF ABBREVIATIONS

| | |
|--------------------|---|
| AS | Air Sparging |
| bgs | Below Ground Surface |
| CUL | MTCA Method A Cleanup Level |
| DO | Dissolved Oxygen |
| Ecology | Washington State Department of Ecology |
| EPA | Environmental Protection Agency |
| ft | Foot (or feet) |
| in. w.c. | Inches of Water Column |
| lb | Pound or Pounds |
| Manhattan Cleaners | Manhattan Cleaners and Coin-Op Laundry |
| µg/L | Micrograms per Liter (parts per billion) |
| µg/m ³ | Micrograms per Cubic Meter |
| mg/kg | Milligrams per Kilogram (parts per million) |
| MTCA | Model Toxics Control Act |
| MVSC | Manhattan Village Shopping Center |
| NAD 83 | North American Datum of 1983 |
| NAVD 88 | North American Vertical Datum of 1988 |
| O&M | Operation & Maintenance |
| ORP | Oxidation Reduction Potential |
| PCE | Perchloroethylene/Tetrachloroethylene |
| PES | PES Environmental, Inc. |
| PID | Photoionization Detector |
| PQL | Practical Quantitation Limit |
| ppmv | Parts per Million by Volume |
| PRB | Permeable Reactive Barrier |
| PSCAA | Puget Sound Clean Air Agency |
| PVC | Polyvinyl Chloride |
| RAWP | Remedial Action Work Plan |
| SAP | Sampling and Analysis Plan |
| scfm | Standard Cubic Feet per Minute |
| SVE | Soil Vapor Extraction |
| TOC | Top of Casing |
| UIC | Underground Injection Control |
| VCP | Voluntary Cleanup Program |
| VOA | Volatile Organic Analysis |
| VOC | Volatile Organic Compound |
| WAC | Washington Administrative Code |

LIST OF ILLUSTRATIONS

- Figure 1– Subject Property Location Map
- Figure 2 – Site Plan
- Figure 3 – Existing Remediation Well Locations
- Figure 4 – Well and Boring Location Map
- Figure 5 - Proposed Permeable Reactive Barrier Layout

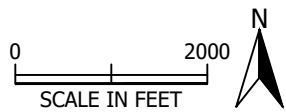


**SUBJECT
PROPERTY**

State Highway 518

1st Avenue South

Puget Sound



Aerial Photo: April 19, 2015 (Google 2016)

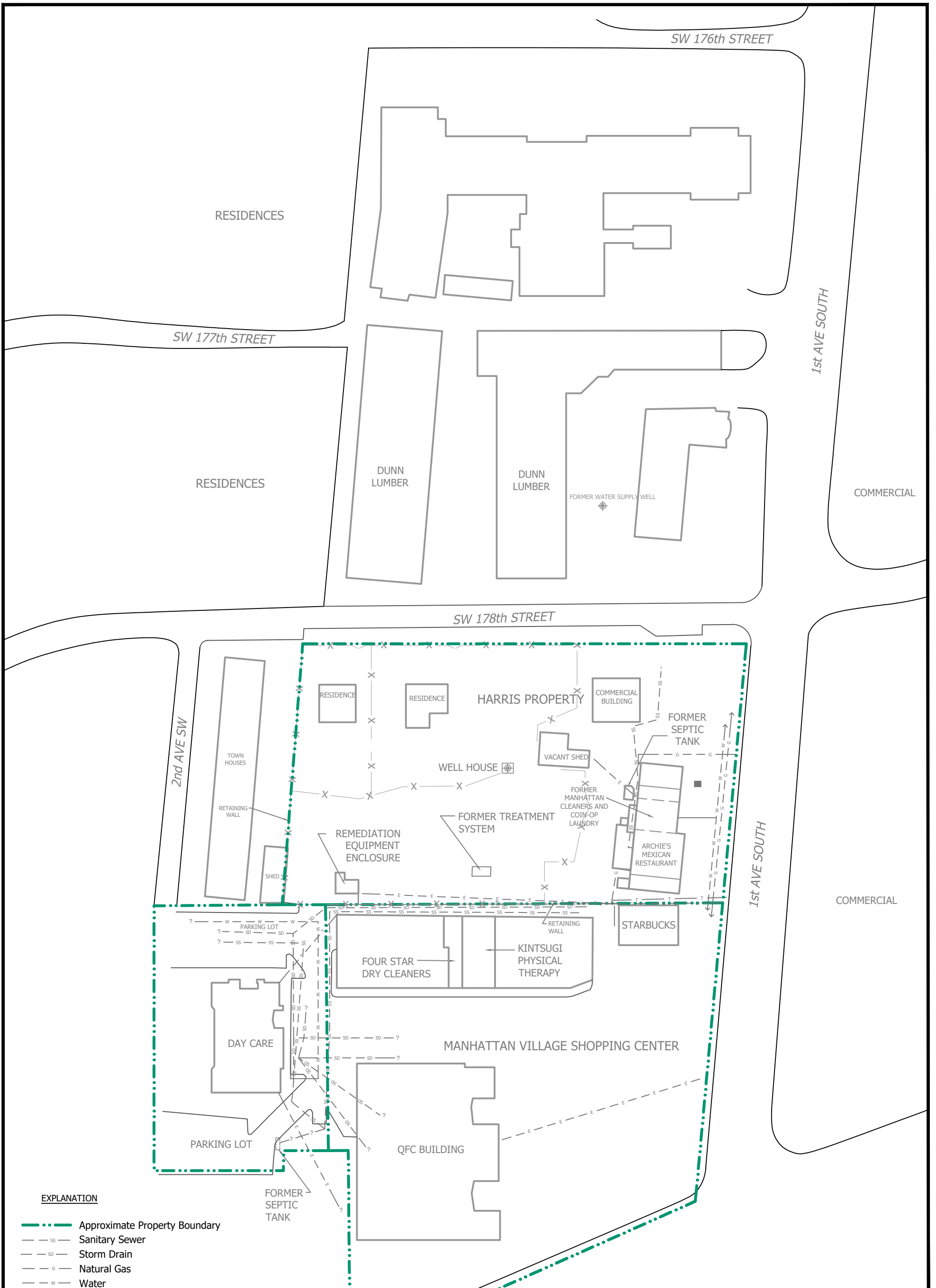


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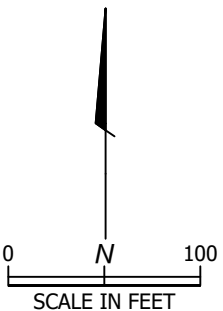
Subject Property Location Map
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

FIGURE
1



EXPLANATION

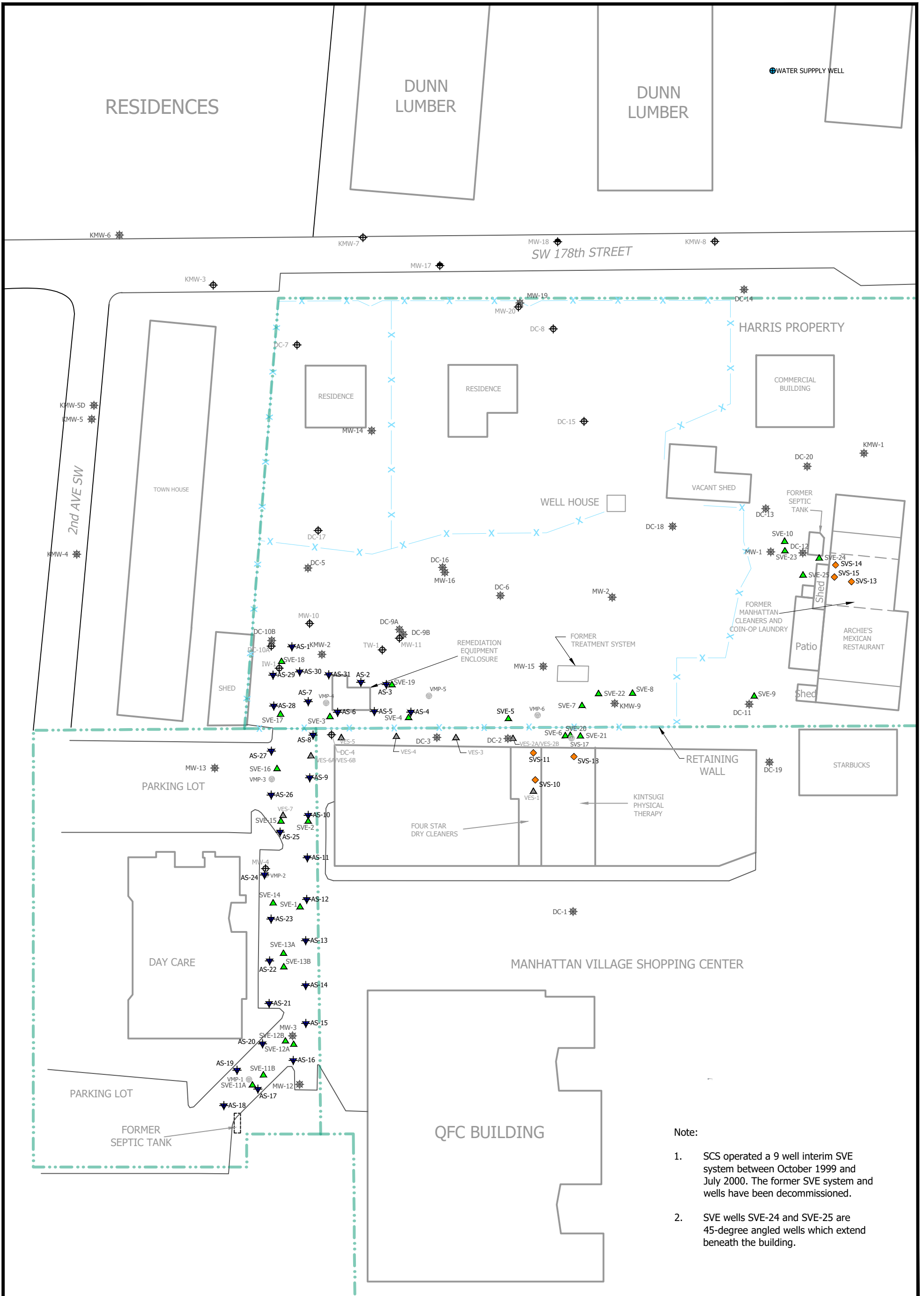
- Approximate Property Boundary
- Sanitary Sewer
- Storm Drain
- Natural Gas
- Water
- Overhead Electrical
- Buried Electrical
- Telephone



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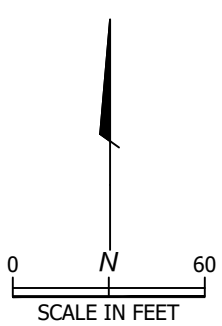
Site Plan
 Manhattan Village/Harris Properties
 17817, 17825, and 17835 1st Avenue South
 Normandy Park, Washington

FIGURE
2



- Note:
1. SCS operated a 9 well interim SVE system between October 1999 and July 2000. The former SVE system and wells have been decommissioned.
 2. SVE wells SVE-24 and SVE-25 are 45-degree angled wells which extend beneath the building.

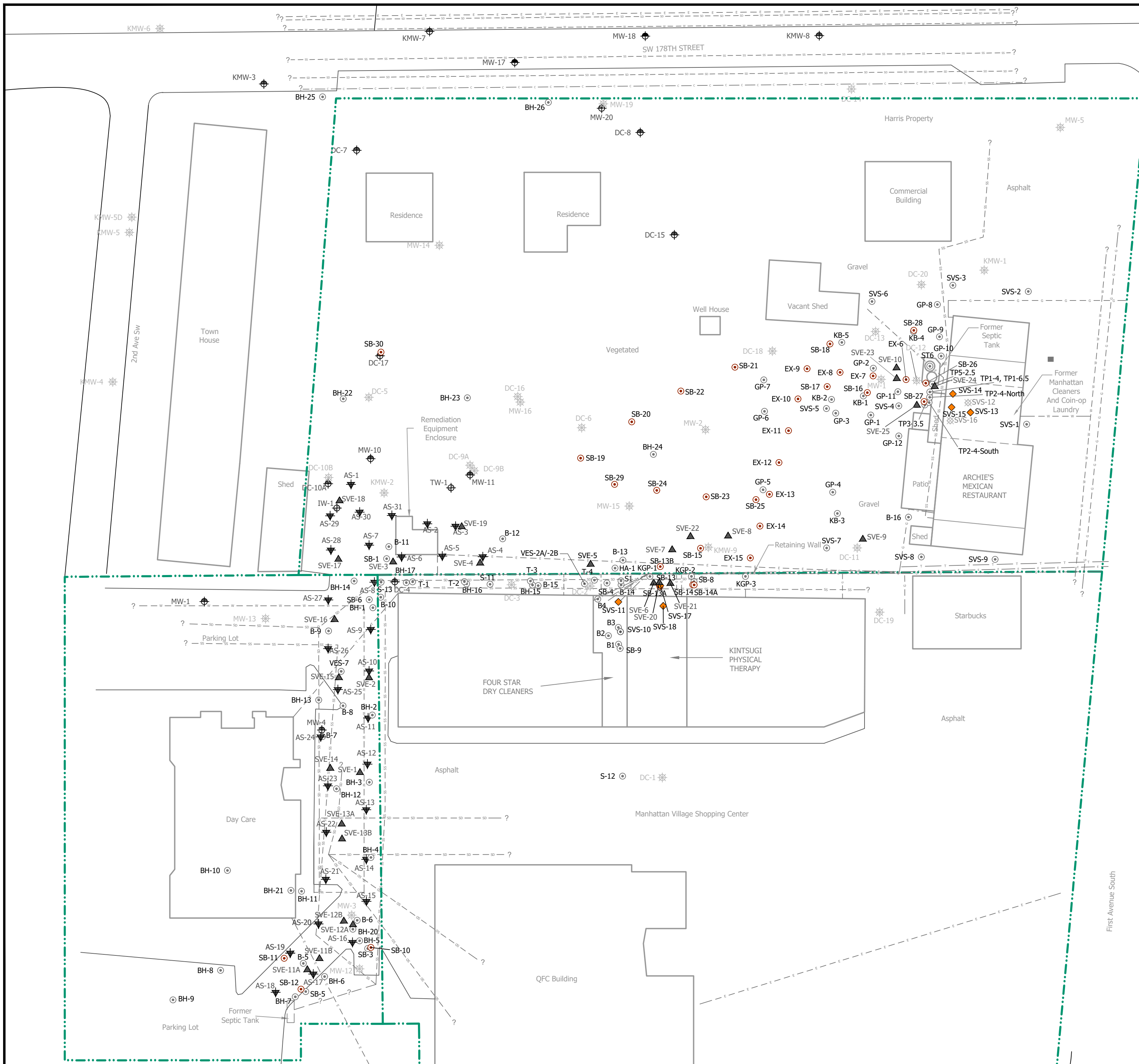
- EXPLANATION**
- Approximate Property Boundary
 - AS-1 Air Sparge Well
 - SVE-1 Soil Vapor Extraction Well
 - SVS-11 Sub-Slab Soil Vapor Monitoring Probe
 - SVS-17 Soil Vapor Monitoring Probe
 - MW-12 Shallow Monitoring Well
 - DC-16 Deep Monitoring Well
 - VES-3 Decommissioned Soil Vapor Extraction Well (SCS, 1999)
 - DC-14 Decommissioned Monitoring Well



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Existing Remediation Well Locations
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

FIGURE
3



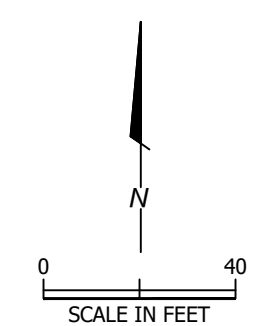
- EXPLANATION**
- Approximate Property Boundary
 - SVE Trench
 - DC-6 Decommissioned or Missing Monitoring Well
 - DC-15 Shallow Monitoring Well
 - DC-16 Deep Monitoring Well
 - SVE-1 Soil Vapor Extraction Well
 - AS-1 Air Sparge Well
 - TW-1 Pilot Test Well (Kane 2006, ERM 2011)
 - KB-3 Boring Location by Others (See Identification List)
 - SB-24 Soil Boring (PES, 2018-2021)
 - SVS-11 Soil Gas Probe (PES, 2019)
 - SG-12 Decommissioned Soil Gas Probe

Boring Identification List

| Consultant | Boring IDs | Year |
|------------|--|-------------|
| SCS | B1 - B4 / S1 - S13 / BH-1 - BH-26 / T-1 - T-4 | 1998-2000 |
| ADAPT | HA-1 | 1999 |
| Farallon | SVS-1 - SVS-10 / GP-1 - GP-12 / TP1 - TP5 | 2005 - 2008 |
| Kane | KB-1 - KB-5 / KGP-1 - KGP-3 / ST6 | 2003 - 2007 |
| ERM | B-5 - B-18 / SB-1 - SB-9 | 2008 - 2012 |
| PES | SB-10 - SB-30 / SVS-11 - SVS-17 / EX-1 - EX-27 | 2018 - 2021 |

- W Water
- SS Sanitary Sewer
- E Electrical Line
- SD Storm Drain
- G Gas
- C Communication
- T Telephone

- Notes:**
- Borings drilled from 1998 through 2012 were not surveyed. Locations are estimated from prior consultants' site maps.
 - Investigation borings B-5, B-7, B-9, B-11, B-12, and B-13 were completed as vapor monitoring probes VMP-1 through VMP-6.
 - The temporary SVE system installed in 1999 included nine wells which operated for approximately one year, and were subsequently decommissioned. Six SVE wells were installed in investigation borings B-1 (VES-1), BH-1 (VES6A/6B), BH-15 (VES-5), BH-16 (VES-4), and BH-17 (VES-3). The other three wells (VES-2A/2B and VES-7) were installed in separate locations.
 - The former septic tank on Harris Property was removed in April 2006. Four sidewall and two bottom samples were collected. Bottom sample ST6 represents the only detection in the 6 samples.
 - SCS borings B-1, B-2, and B-3 were completed as 1-inch diameter vapor monitoring probes in 1998. Well construction details are not available.
 - Soil gas sampling probes SVS-10 through SVS-16 are installed beneath the building slabs and requires specialized tools for access to the flush grade monuments. SVS-17 is installed in the asphalt behind Four Star Cleaners and includes a standard 6-inch diameter flush grade monument.
 - Borings EX-1 through EX-15 were advanced in September 2020 to evaluate conditions prior to excavation and constructing an SVE piping trench. The excavation was completed in January 2021 and confirmation samples were collected. The SVE trench was completed in February 2021. See Figure 5 for locations of borings EX-1 through EX-5 and excavation confirmation samples EX-16 through EX-27.

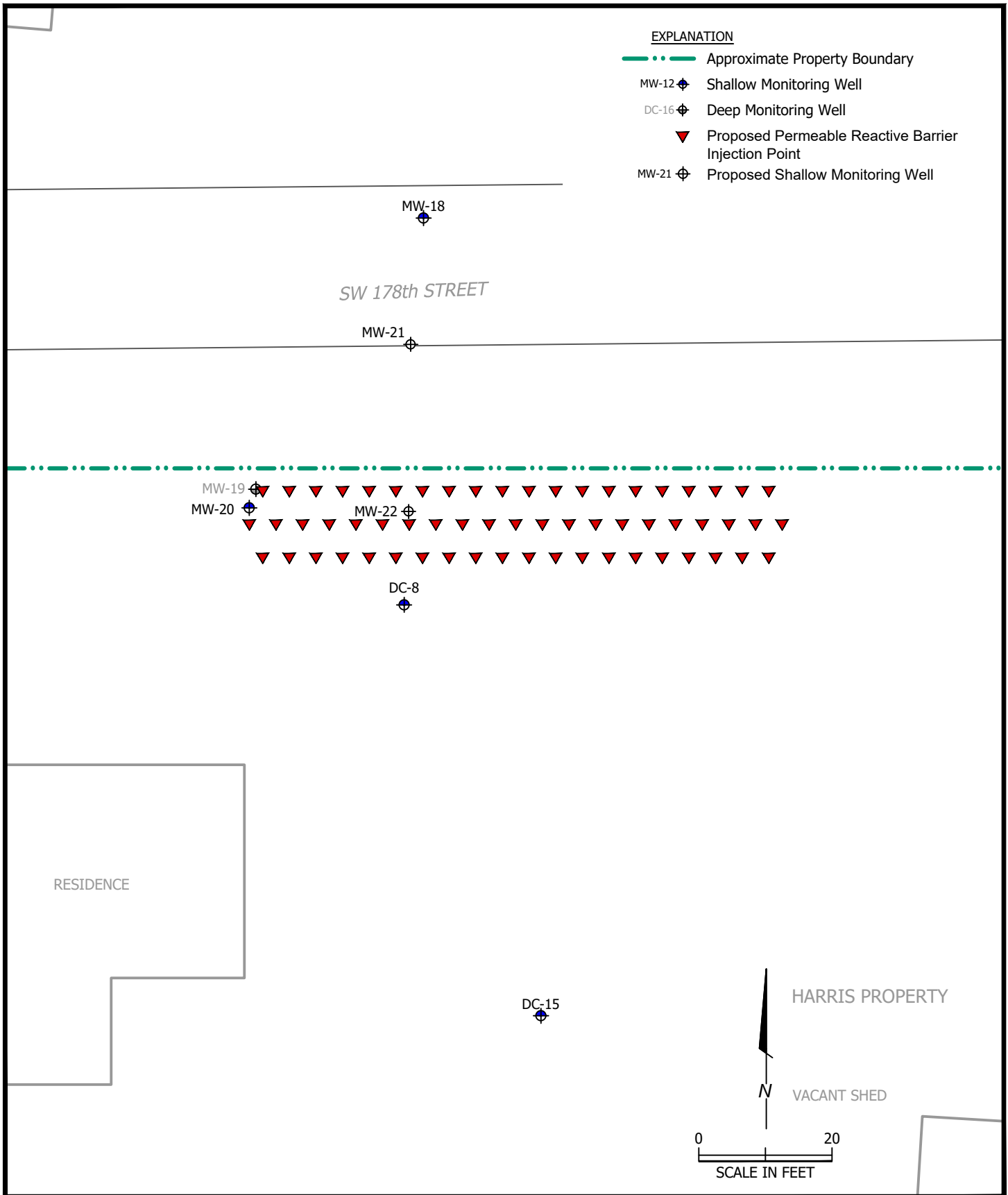


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Well and Boring Location Map
 Manhattan Village/Harris Properties
 17817, and 17825, and 17835 1st Avenue South
 Normandy Park, Washington

FIGURE **4**

1358.001.02.016 135800102016_2022SR_4 MVD 3/23
 JOB NUMBER DRAWING NUMBER REVIEWED BY DATE



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Proposed Permeable Reactive Barrier Layout
 Manhattan Village/Harris Properties
 17817, 17825, and 17835 1st Avenue South
 Normandy Park, Washington

FIGURE

5

LIST OF TABLES

- Table 1 – SVE System Operation and Maintenance Data
- Table 2 - Tetrachloroethene Concentrations in SVE Wells
- Table 3 - Soil Vapor Monitoring Probe Field Data

**Table 1
SVE System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington**

| Date | Time | Operating Days (days) | System Down Time (days) | Electric Meter (KWH) | Blower | | | | Vacuum | | SVE Wells ⁶ | Stack | | | | PCE Removal Rate ⁴ (lb/day) | PCE Mass Removed ⁵ (lbs) | Condensate | | Notes |
|----------|-------|-----------------------|-------------------------|----------------------|------------|----------------------|---------------|-------------------|-------------------|---------------------|------------------------|---------------|--------------------------|------------------------|---|--|-------------------------------------|----------------|--------------------|--|
| | | | | | Speed (hz) | Electric Meter (KWH) | Run Time (hr) | Temp. Out (deg F) | Blower (in. w.c.) | Manifold (in. w.c.) | | DP (in. w.c.) | Flow ¹ (scfm) | VOC ² (ppm) | Lab PCE ³ (µg/m ³) | | | DAT Tank (gal) | Holding Tank (gal) | |
| | | | | | | | | | | | | | | | | | | | | |
| 1/5/22 | 12:15 | 1568 | 6.0 | - | 36 | 233,191 | 37,643 | 70 | 46 | 41 | See Note 11 | - | - | - | - | - | - | 90 | 1360 | KO high high Alarm. Transfer condensate. Restart. |
| 1/14/22 | 8:20 | 1577 | 0.2 | 38,059 | 36 | 234,331 | 37,854 | 77 | 40 | - | See Note 11 | - | - | - | - | - | - | 195 | 1400 | DAT high alarm. Marvac remove condensate. |
| 1/27/22 | 16:05 | 1588 | 2.5 | 39,653 | 36 | 235,687 | 38,106 | 80 | 60 | 50 | See Note 11 | - | - | - | - | - | - | 120 | 25 | Restart system. Service KO low level switch |
| 2/4/22 | 14:20 | 1595 | 0.5 | 40,765 | 36 | 236,647 | 38,287 | 70 | 50 | 46 | See Note 11 | - | - | - | - | - | - | 90 | 170 | Restart system. Service KO low level switch |
| 2/10/22 | 10:45 | 1601 | - | 41,623 | 36 | 237,389 | 38,426 | 75 | 51 | 49 | See Note 11 | 1.0 | 558 | - | - | - | - | 90 | 240 | Balance SVE wells. SVE blower serviced by B&K. |
| 2/25/22 | 11:55 | 1616 | 0.4 | 43,749 | 36 | 239,210 | 38,778 | 80 | 42 | 40 | See Note 11 | - | - | - | - | - | - | 100 | 420 | Restart system. Service KO low level switch |
| 3/21/22 | 16:15 | 1616 | 23.8 | - | 36 | 239,231 | 38,782 | 75 | 49 | 45 | See Note 11 | 0.9 | 529 | 0.2 | 200 | 0.010 | 128.1 | 103 | 430 | Restart system. Replace KO low level switch |
| 4/13/22 | 10:15 | 1638 | 0.7 | 46,870 | 36 | 241,692 | 39,317 | 75 | 16 | 12 | See Note 11 | 1.0 | 558 | - | - | - | - | 40 | 600 | KO Alarm. Remake electrical connections. Restart. |
| 4/26/22 | 8:56 | 1651 | - | 48,539 | 36 | 243,110 | 39,627 | 77 | 18 | 23 | See Note 11 | 1.0 | 558 | 0.3 | - | - | - | 120 | 600 | Routine O&M. Mark alley for pending PSE gas line. |
| 6/2/22 | 11:23 | 1688 | - | 53,402 | 36 | 247,230 | 40,518 | 90 | 25 | 22 | See Note 11 | 1.3 | 622 | - | 140 | 0.008 | 128.8 | 120 | 600 | Sample stack and operating SVE legs |
| 6/27/22 | 16:20 | 1713 | - | 56,627 | 36 | 249,941 | 41,123 | 110 | 37 | 34 | See Note 11 | 1.2 | 592 | 0.5 | - | - | - | 120 | 600 | Routine O&M. Annual mowing on Harris. |
| 7/20/22 | 9:00 | 1729 | 7.6 | 58,789 | 36 | 251,695 | 41,493 | 85 | 38 | 36 | See Note 11 | 1.0 | 553 | 0.3 | - | - | - | 121 | 600 | Alarm - blower low flow. Test. VFD overheating - leave off |
| 7/25/22 | 7:00 | 1729 | 5.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 121 | 600 | Electrician - determines VFD has failed. |
| 8/3/22 | 7:00 | 1729 | 9.0 | 58,853 | 36 | 0 | 0 | 80 | 30 | - | See Note 11 | 1.1 | 580 | - | - | - | - | 121 | 600 | Install new VFD and restart system. Blower data reset. |
| 8/12/22 | 9:14 | 1738 | - | - | 36 | - | 217 | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - power out. |
| 8/15/22 | 8:41 | 1738 | 3.0 | 60,075 | 36 | - | 217 | 85 | 25 | - | See Note 11 | 1.1 | 580 | - | - | - | - | - | - | Restart blower |
| 8/31/22 | 7:00 | 1754 | - | 62,209 | 36 | 2,810 | 603 | 100 | 30 | 24 | See Note 11 | 1.0 | 546 | 0.2 | - | - | - | 121 | 600 | Replace autodialer batteries. |
| 9/8/22 | 9:45 | 1762 | - | - | 36 | - | 611 | - | - | - | See Note 11 | - | 546 | - | 370 | 0.018 | 129.6 | - | - | Collect stack sample. SVE blower serviced by B&K |
| 9/28/22 | 7:00 | 1782 | - | 66,020 | 36 | 6,019 | 1,274 | 75 | 27 | 24 | See Note 11 | 1.1 | 586 | 0.2 | - | - | - | 122 | 600 | Install SVS-18. Monitor SVE legs |
| 10/21/22 | 11:10 | 1805 | - | 68,693 | 36 | 8,216 | 1,827 | 76 | 27 | 25 | See Note 11 | 1.2 | 611 | 0.2 | - | - | - | 122 | 600 | O&M |
| 11/4/22 | 9:40 | 1819 | - | - | 36 | - | 2,173 | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - power out |
| 11/8/22 | 9:00 | 1819 | 4.0 | 70,474 | 36 | 9,652 | 2,173 | 70 | 27 | 22 | See Note 11 | 1.1 | 588 | - | - | - | - | 170 | 640 | Restart System, transfer DAT water to holding tank |
| 11/17/22 | 8:40 | 1828 | - | - | 36 | - | 2,390 | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - power out |
| 11/18/22 | 16:50 | 1828 | 1.0 | 71,605 | 36 | 10,597 | 2,390 | - | - | - | See Note 11 | - | - | - | - | - | - | 170 | 725 | Restart system. O&M |
| 11/21/22 | 15:00 | 1831 | - | - | - | - | 2,460 | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - KO tank hi-hi |
| 11/23/22 | 14:11 | 1831 | 2.0 | 72,006 | 36 | 10,912 | 2,460 | 70 | 30 | 22 | See Note 11 | 1.1 | 588 | - | - | - | - | 90 | 840 | Restart system |
| 12/2/22 | 11:00 | 1840 | - | 73,106 | 36 | 11,840 | 2,670 | 70 | 31 | 27 | See Note 11 | 1.0 | 561 | 0.2 | 160 | 0.008 | 130.8 | 170 | 925 | Collect stack sample |
| 12/26/22 | 7:45 | 1861 | - | - | - | - | 3,173 | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - KO pump starter tripped |
| 12/28/22 | 13:00 | 1861 | 2.0 | 72,006 | 36 | 14,082 | 3,173 | 60 | 37 | 30 | See Note 11 | 1.2 | 620 | - | - | - | - | 170 | 1350 | Restart system |
| 1/11/23 | 11:00 | 1875 | - | 77,667 | 36 | 15,616 | 3,505 | 75 | 37 | 25 | See Note 11 | 1.2 | 611 | - | - | - | - | 200 | 1500 | Monitor SVE legs |
| 1/21/23 | 16:17 | 1885 | - | - | - | - | 3,750 | - | - | - | - | - | - | - | - | - | - | 290 | 1500 | Alarm - KO tank hi-hi |
| 2/22/23 | 10:10 | 1885 | 32 | 79,331 | 36 | 16,677 | 3,750 | 60 | 26 | 23 | See Note 11 | 1.1 | 593 | 0.3 | - | - | - | 10 | 0 | ACT remove condensate. Restart System |
| 3/31/23 | 15:25 | 1922 | - | 83,858 | 36 | 20,443 | 4,644 | 74 | 28 | 24 | See Note 11 | 1.2 | 612 | - | 86 | 0.005 | 131.3 | 170 | 310 | Collect stack sample |
| 4/6/23 | 8:55 | 1928 | - | 84,565 | 36 | 21,029 | 4,783 | 75 | 27 | 25 | See Note 11 | 1.1 | 585 | 0.7 | - | - | - | 170 | 400 | Balance SVE legs |
| 4/25/23 | 9:00 | 1947 | - | 87,147 | 36 | 23,189 | 5,239 | 78 | 32 | 28 | See Note 11 | 1.2 | 609 | 0.1 | - | - | - | 62 | 680 | Blower running in Hand temporarily pending electrician. Blower service - oil change and belt adjustment. |
| 5/4/23 | 7:30 | 1956 | - | - | 36 | - | 5,455 | - | - | - | See Note 11 | - | - | - | - | - | - | 62 | 680 | Repair PLC (fuse) and replace float switch in holding tank. |
| 6/1/23 | 9:55 | 1984 | - | 91,855 | 36 | 27,138 | 6,124 | 80 | 31 | 28 | See Note 11 | 1.2 | 608 | 0 | - | - | - | 62 | 680 | Unable to monitor SVE legs due to heavy vegetation. |
| 6/15/23 | 11:45 | 1998 | - | 93,606 | 36 | 28,592 | 6,461 | 85 | 30 | 28 | See Note 11 | 1.3 | 630 | 0 | - | - | - | 62 | 680 | Faulty summa canister - no stack sample collected |
| 6/24/23 | 1:00 | 2007 | - | - | - | - | 6,671 | - | - | - | - | - | - | - | - | - | 131.7 | - | - | Alarm - low SVE blower flow |
| 7/6/23 | 9:15 | 2007 | 12 | 94,863 | 36 | 29,501 | 6,671 | 80 | 30 | 27 | See Note 11 | 1.2 | 608 | - | - | - | - | 62 | 680 | Check system during drilling waste drum pickup. Restart briefly to confirm operation and then shut down. |

**Table 1
SVE System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington**

| Date | Time | Operating Days (days) | System Down Time (days) | Electric Meter (KWH) | Blower | | | | Vacuum | | SVE Wells ⁶ | Stack | | | | PCE Removal Rate ⁴ (lb/day) | PCE Mass Removed ⁵ (lbs) | Condensate | | Notes |
|---|------|-----------------------|-------------------------|----------------------|------------|----------------------|---------------|-------------------|-------------------|---------------------|------------------------|---------------|--------------------------|------------------------|---|--|-------------------------------------|----------------|--------------------|-------|
| | | | | | Speed (hz) | Electric Meter (KWH) | Run Time (hr) | Temp. Out (deg F) | Blower (in. w.c.) | Manifold (in. w.c.) | | DP (in. w.c.) | Flow ¹ (scfm) | VOC ² (ppm) | Lab PCE ³ (µg/m ³) | | | DAT Tank (gal) | Holding Tank (gal) | |
| | | | | | | | | | | | | | | | | | | | | |
| <p>Notes:</p> <ol style="list-style-type: none"> 1. Calculated flow rate based on velocity measurements in feet per minute, converted to cfm based on pipe cross sectional area, and normalized to standard conditions 2. As measured with a photoionization detector (PID) 3. SVE system discharge samples analyzed for VOCs using United States Environmental Protection Agency Method TO-15; see laboratory reports for the complete analytical list. 4. Mass Removal Rate = [flow (scfm) * PCE (µg/m³) * 28.3168 (L/cf) / 1,000 (L/m³) / 453,592,370 (µg/lb) * 60 (min/hour) * 24 (hour/day)] 5. Cumulative mass removed = average mass removal rates from previous and current O&M visit * period run time. 6. SVE wells operating. The numbers refer to the SVE well number: SVE-1, SVE-2, SVE-3, SVE-4, SVE-5, SVE-6, SVE-7, SVE-8, SVE-9, SVE-10, SVE-11a, SVE-11b, SVE-12a, SVE-12b, SVE-13a, SVE-14, SVE-15, SVE-16, SVE-17, SVE-18, and SVE-19. 7. Operating SVE wells include SVE-2, SVE-3, SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-15, SVE-16, and SVE-18. 8. Operating SVE wells include SVE-2, SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-15, and SVE-18. 9. Operating SVE wells include SVE-2, SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-15, SVE-16, and SVE-18. 10. Operating SVE wells include SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-20, SVE-21, SVE-23, SVE-24, and SVE-25. 11. Operating SVE wells include SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-20, SVE-21, SVE-22, SVE-23, SVE-24, and SVE-25. <p> KWH = Kilowatt Hours in. w.c. = inches of water column scfm = standard cubic feet per minute deg F = degrees Fahrenheit </p> <p> NM = not measured PCE = tetrachloroethene ppm = parts per million DAT = diffused aeration tank </p> <p> VOC = Volatile Organic Compounds µg/m³ = micrograms per cubic meter lb/day = pounds per day Temp. = Temperature </p> <p> DP = Differential Pressure EJ = estimated value </p> | | | | | | | | | | | | | | | | | | | | |

Table 2
Tetrachloroethene Concentrations in SVE Wells
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| SVE Well | Screen Depth (ft bgs) | 06/02/22 | |
|----------|-----------------------|----------------------|--------|
| | | (µg/m ³) | (scfm) |
| SVE-1 | 10-35 | -- | -- |
| SVE-2 | 10-35 | -- | -- |
| SVE-3 | 10-30 | -- | -- |
| SVE-4 | 10-30 | -- | -- |
| SVE-5 | 10-30 | 660 J | 24 |
| SVE-6 | 5-10 | 340 | 34 |
| SVE-7 | 10-30 | 120 | 42 |
| SVE-8 | 10-30 | 49 | 41 |
| SVE-9 | 10-30 | -- | -- |
| SVE-10 | 10-30 | 72 | 46 |
| SVE-11A | 5.0-20.0 | 74 | 13 |
| SVE-11B | 20.0-35.0 | -- | -- |
| SVE-12A | 5.0-20.0 | 330 | 17 |
| SVE-12B | 20.0-35.0 | -- | -- |
| SVE-13A | 5.0-20.0 | -- | -- |
| SVE-13B | 20.0-35.0 | -- | -- |
| SVE-14 | 19.6-34.6 | -- | -- |
| SVE-15 | 20.6-35.0 | -- | -- |
| SVE-16 | 20.5-34.8 | -- | -- |
| SVE-17 | 19.9-29.9 | -- | -- |
| SVE-18 | 19.8-29.8 | -- | -- |
| SVE-19 | 20.0-30.0 | -- | -- |
| SVE-20 | 10.3-25.4 | 110 | 53 |
| SVE-21 | 25.7-37.7 | 200 | 56 |
| SVE-22 | 20.6-35.6 | 110 | 55 |
| SVE-23 | 20.3-35.3 | 61 | 56 |
| SVE-24 | 10.3-22.6 | 46 | 56 |
| SVE-25 | 22.8-35.7 | 36 | 35 |
| Stack | -- | 140 | 529 |

Notes:
1. Tetrachloroethene (PCE) concentrations in micrograms per cubic meter (µg/m³)
2. Flow rate in standard cubic feet per minute (scfm)
3. '-- = Not Operational
4. J = estimated result based on data validation review.
5. SVE-1 through SVE-10 began operating in 2009. SVE-11A through SVE-19 began operation in 2016.
SVE-20 through SVE-25 began operating in 2021.

Table 3
Soil Vapor Monitoring Probe Field Data
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Date | Four Star Cleaners | | | | Former Manhattan Cleaners | | | | | | Alley | | Kintsugi PT | |
|----------|----------------------|---------------------------|----------------------|---------------------------|---------------------------|---------------------------|----------------------|---------------------------|----------------------|--------------|----------------------|---------------------------|----------------------|---------------------------|
| | SVS-10 | | SVS-11 | | SVS-13 | | SVS-14 | | SVS-15 | | SVS-17 | | SVS-18 | |
| | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) |
| 4/26/22 | 0.02 | 0.7 | 0.1 | 0.4 | 0.7 | 0.3 | 0.0 | 0.3 | 0.1 | 0.4 | 3.7 | 0.2 | - | - |
| 6/2/22 | 0.02 | - | 0.1 | - | 0.7 | - | 0.06 | - | 0.1 | - | 2.6 | - | - | - |
| 6/27/22 | 0.02 | - | 0.1 | 0.9 | 0.9 | 0.6 | 0.04 | 0.4 | 0.1 | 0.2 | 2.4 | 0.5 | - | - |
| 8/31/22 | 0.01 | 0.2 | 0.1 | 0.0 | 0.7 | 0.3 | 0.08 | 0.1 | 0.1 | 0.2 | 1.8 | 0.7 | - | - |
| 9/28/22 | 0.01 | 0.6 | 0.1 | 0.3 | 0.6 | 0.3 | 0.02 | 0.2 | 0.1 | 0.2 | 2.3 | 0.0 | 0.1 | 0.5 |
| 10/21/22 | 0.02 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.01 | 0.2 | 0.2 | 0.2 | 1.8 | 0.0 | 0.1 | 0.2 |
| 12/2/22 | 0.01 | 0.5 | 0.1 | 0.5 | 0.6 | 0.2 | 0.14 | 0.2 | 0.1 | 0.1 | 2.0 | 0.3 | 0.2 | 0.4 |
| 1/11/23 | 0.01 | 0.2 | 0.1 | 0.2 | 0.7 | 0.4 | 0.01 | 0.4 | 0.1 | 1.2 | 3.5 | 0.6 | 0.1 | 0.1 |
| 4/6/23 | 0.01 | - | 0.1 | - | 0.01 | - | 0.05 | - | 0.01 | - | 2.6 | - | 0.03 | - |
| 4/25/23 | 0.02 | 0.4 | 0.1 | 0.3 | 0.6 | 0.0 | 0.01 | 0.0 | 0.1 | 0.0 | 2.8 | 0.4 | 0.03 | 0.2 |
| 6/1/23 | 0.01 | - | 0.9 | - | 0.7 | - | 0.03 | - | 0.1 | - | 0.1 | - | 0.90 | - |

Notes:

- As measured with a photoionization detector (PID)
- Decommissioned SVS-12 and SVS 16 on June 2, 2022.
- SVS-10 may not have an air tight seal
- Installed SVS-18 inside Kintsugi Physical Therapy office on September 28, 2022

in. w.c. = inches of water column
 ppm = parts per million as measured with a photo-ionization detector (PID)

ATTACHMENT A

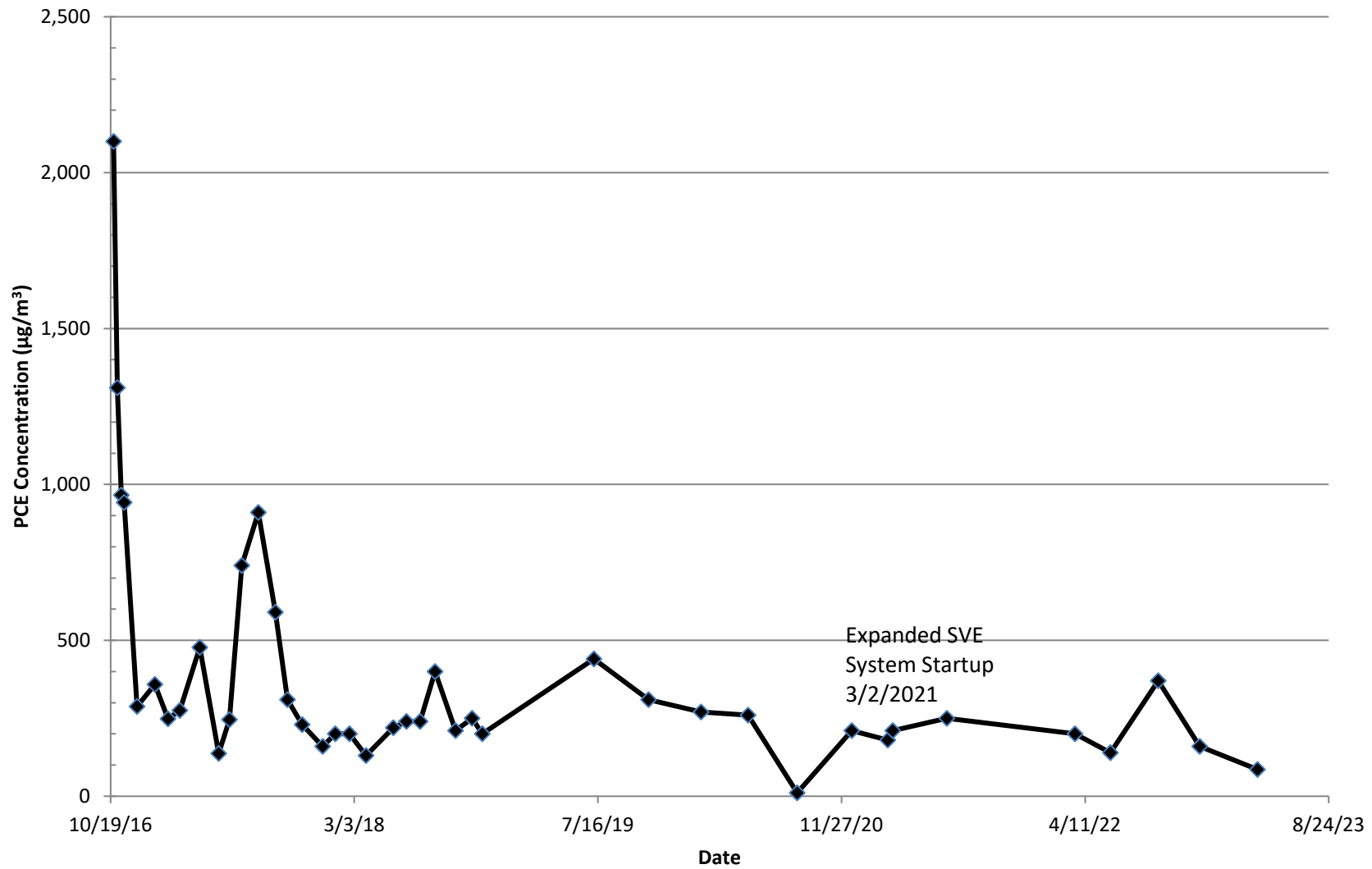
O&M CHARTS AND SUMMARY TABLES

- Chart A1 – SVE Discharge PCE Concentrations
- Chart A2 – Cumulative PCE Removed
- Table A3 – Historical SVE System Operation and Maintenance Data
- Table A4 – Historical Tetrachlorethene Concentrations in SVE Wells
- Table A5 – Historical Soil Vapor Monitoring Probe Field Data

Attachment A1

SVE Discharge PCE Concentrations

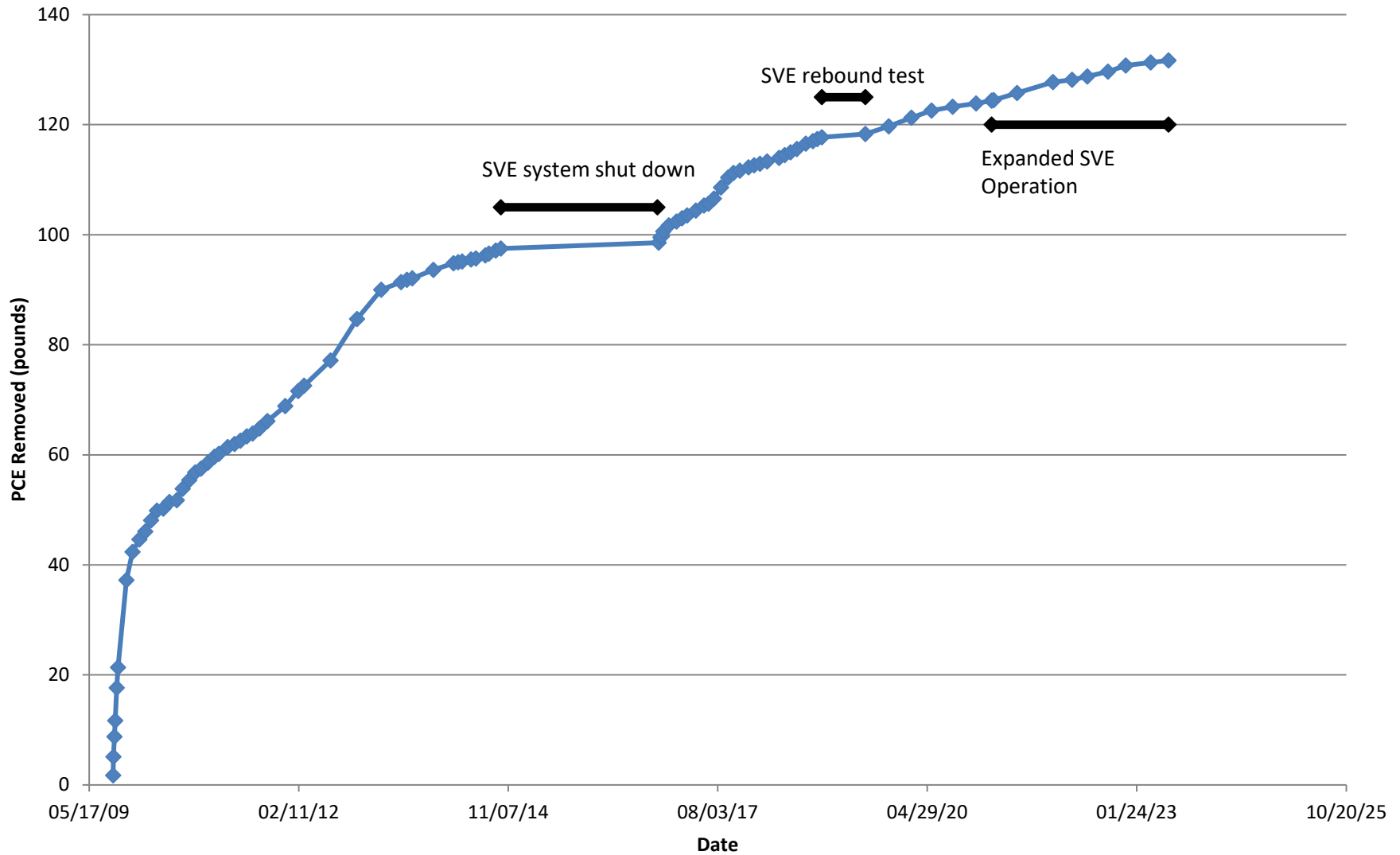
Manhattan Village/Harris Properties



Attachment A2

Cumulative PCE Removed

Manhattan Village/Harris Properties



**Table A3
SVE System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington**

| Date | Time | Operating Days (days) | System Down Time (days) | Electric Meter (KWH) | Blower | | | | Vacuum | | SVE Wells ⁶ | Stack | | | | PCE Removal Rate ⁴ (lb/day) | PCE Mass Removed ⁵ (lbs) | Condensate | | Notes |
|----------|-------|-----------------------|-------------------------|----------------------|------------|----------------------|---------------|-------------------|-------------------|---------------------|------------------------|---------------|--------------------------|------------------------|---|--|-------------------------------------|---|--------------------|--|
| | | | | | Speed (hz) | Electric Meter (KWH) | Run Time (hr) | Temp. Out (deg F) | Blower (in. w.c.) | Manifold (in. w.c.) | | DP (in. w.c.) | Flow ¹ (scfm) | VOC ² (ppm) | Lab PCE ³ (µg/m ³) | | | DAT Tank (gal) | Holding Tank (gal) | |
| | | | | | | | | | | | | | | | | | | | | |
| 10/19/16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 97.5 | - | - | per PES previous O&M Data Tables | | |
| 10/19/16 | 11:30 | 0 | - | - | 51 | - | - | 85 | 42 | 19 | 1 to 19 | 2.25 | 830 | - | - | - | - | SVE system startup, balance wells | | |
| 10/21/16 | - | 2 | - | - | 50 | - | - | 85 | 48 | 25 | 1 to 19 | 2.10 | 800 | 2.96 | - | - | - | AS system startup, balance wells, noise testing | | |
| 10/25/16 | 10:32 | 6 | - | 1,274 | 51 | 1,285 | 159 | 86 | 42 | 20 | 1 to 19 | 2.15 | 830 | 2.39 | 2,100 | 0.157 | 98.5 | 169 | 90 | Balance SVE and AS wells, stack TO-15 sample |
| 11/2/16 | 9:00 | 14 | - | - | 51 | 2,859 | 349 | 85 | 45 | 20 | 1 to 19 | 2.3 | 840 | 2.51 | 1,310 | 0.099 | 99.6 | 92 | 160 | Startup monitoring, stack TO-15 sample |
| 11/10/16 | 10:30 | 22 | - | - | 51 | 4,318 | 390 | 80 | 35 | 15 | 1 to 19 | 2.5 | 880 | 1.25 | 966 | 0.076 | 99.7 | - | 325 | Startup monitoring, stack TO-15 sample |
| 11/16/16 | 10:30 | 28 | - | - | 51 | 5,418 | 688 | 80 | 35 | 16 | 1 to 19 | 2.0 | 790 | 2.57 | 942 | 0.067 | 100.6 | 60 | 340 | Startup monitoring, stack TO-15 sample |
| 11/23/16 | 9:00 | 35 | - | - | 51 | 6,655 | 853 | 75 | 30 | 15 | 1 to 19 | - | - | 0.86 | - | - | - | 120 | 425 | Check AS, clean debris from transfer pump |
| 11/30/16 | 7:00 | 42 | - | - | 51 | 7,914 | 1,020 | 75 | 33 | 10 | 1 to 19 | 2.0 | 790 | - | - | - | - | 75 | 490 | Check AS, clean debris from transfer pump |
| 12/12/16 | 9:00 | 54 | - | 3,398 | 51 | 10,209 | 1,312 | 75 | 35 | 10 | 1 to 19 | 2.4 | 860 | 1.31 | 288 | 0.022 | 101.7 | 10 | 580 | O&M, stack TO-15 sample, shutdown for GW sampling |
| 12/15/16 | - | 57 | 3 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Restarted system after GW sampling |
| 12/20/16 | 8:00 | 59 | - | 3,704 | 51 | 11,115 | 1,430 | 75 | 34 | 9 | 1 to 19 | 2.0 | 790 | - | - | - | - | 90 | 520 | Changed blower and compressor oil, check belts |
| 12/28/16 | - | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | 750 | Respond to DAT Alarm, reset, system operating |
| 1/1/17 | - | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | System down on power outage alarm |
| 1/3/17 | 13:35 | - | 2 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Responded to alarm, system off - frozen equipment |
| 1/9/17 | 12:15 | 72 | 9 | 4,444 | 51 | 13,211 | 1,723 | 65 | 30 | 8 | 1 to 19 | 2.3 | 850 | - | - | - | - | 80 | 825 | Test and restart system after power outage |
| 1/10/17 | 9:45 | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | System check after restart |
| 1/18/17 | 11:00 | 81 | - | 4,976 | 51 | 14,751 | 1,936 | 75 | 32 | 6 | 1 to 19 | 2.3 | 845 | 0.5 | 359 | 0.027 | 102.4 | 0 | 5 | O&M and TO-15 sample, condensate disposal |
| 1/29/17 | - | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Reset alarm, system running |
| 2/1/17 | 6:45 | 95 | - | 5,801 | 51 | 17,171 | 2,269 | 70 | 32 | 10 | 1 to 19 | 2.2 | - | - | - | - | - | 85 | 220 | Install check valve, repair transfer pump leak |
| 2/6/17 | 5:20 | - | 1 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Power outage. Restarted system. |
| 2/14/17 | 11:00 | 107 | - | 6,558 | 51 | 19,370 | 2,573 | 75 | 32 | 2 | 1 to 19 | 2.3 | 845 | 1.1 | 248 | 0.019 | 103.0 | 85 | 350 | O&M, stack TO-15 sample, clean level switches |
| 2/16/17 | 15:30 | - | - | 6,685 | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | 140 | 365 | System check |
| 3/2/17 | - | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Respond to DAT Alarm, reset, system operating |
| 3/10/17 | 9:00 | 131 | - | 8,006 | 51 | 23,567 | 3,146 | 75 | 35 | 26 | 1 to 19 | 2.3 | 845 | 0.2 | 275 | 0.021 | 103.5 | 100 | 565 | O&M, stack TO-15 sample, shutdown for GW sampling |
| 3/17/17 | - | - | 7 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Restarted system after GW sampling |
| 4/8/17 | 9:40 | 152 | 1 | 9,229 | - | 27,115 | 3,653 | 75 | 30 | 24 | 1 to 19 | 2.3 | 845 | - | - | - | - | 95 | 670 | Power bump/surge, blower low flow alarm, restarted |
| 4/20/17 | 12:00 | - | - | 10,022 | 51 | 29,101 | 3,942 | 75 | 32 | 25 | 1 to 19 | 2.4 | 865 | 0.3 | 477 EJ | 0.037 | 104.4 | 93 | 670 | O&M, stack TO-15 sample |
| 4/22/17 | - | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Power bump/surge, blower low flow alarm |
| 4/23/17 | 15:40 | 166 | 1 | 10,136 | 51 | 29,398 | 3,985 | 75 | 30 | 25 | 1 to 19 | 2.3 | 845 | - | - | - | - | 92 | 670 | Restarted system |
| 5/29/17 | 12:00 | 202 | - | 12,283 | 51 | 35,228 | 4,845 | 85 | 32 | 32 | All except 13A & 14 | 2.3 | 835 | 0.3 | 137 | 0.010 | 105.3 | 80 | 680 | Closed SVE13A & SVE14, Closed AS10 to AS26 |
| 6/16/17 | 11:00 | - | - | - | - | - | - | - | - | - | All except 13A & 14 | - | - | - | - | - | - | - | - | Power bump/surge, low flow alarm. Restarted system |
| 6/20/17 | 8:00 | 223 | - | 13,352 | 51 | 38,915 | 5,359 | 85 | 34 | 32 | All except 13A & 14 | 2.3 | 835 | 0.4 | 246 | 0.018 | 105.6 | 68 | 686 | O&M, changed blower and compressor oil, check belts |
| 7/15/17 | 10:00 | 248 | - | 14,596 | 51 | 43,192 | 5,959 | 94 | 35 | 30 | All except 13A & 14 | 2.4 | 845 | 0.3 | 745 | 0.057 | 106.6 | 50 | 686 | O&M, stack TO-15 sample, shut down for GW sampling |
| 7/20/17 | 14:00 | 248 | 5 | 14,607 | 51 | 43,227 | 5,963 | 100 | 40 | 32 | All except 13A & 14 | 2.3 | 830 | - | - | - | - | 48 | 686 | Restarted system after GW sampling, ROI evaluation |
| 8/18/17 | 9:15 | 277 | - | 16,061 | 51 | 48,555 | 6,655 | 90 | 38 | 30 | All except 13A & 14 | 2.3 | 835 | 2.4 | 910 | 0.068 | 108.4 | 20 | 686 | O&M, stack TO-15 sample |
| 9/22/17 | 10:30 | 312 | - | 17,766 | 51 | 54,570 | 7,495 | 80 | 40 | 30 | All except 13A & 14 | 2.4 | 860 | 2.0 | 590 | 0.046 | 110.4 | 10 | 686 | O&M, stack TO-15 sample |
| 10/17/17 | 8:15 | 337 | - | 18,992 | 51 | 58,991 | 8,097 | 80 | 40 | 30 | All except 13A & 14 | 2.3 | 845 | 1.3 | 310 | 0.024 | 111.2 | 0 | 686 | O&M, stack TO-15 sample |
| 10/18/17 | - | - | - | - | - | - | - | - | - | - | All except 13A & 14 | - | - | - | - | - | - | - | - | Power bump/surge during storm, blower low flow alarm |
| 10/19/17 | 11:00 | 339 | 1 | - | 51 | - | 8,127 | - | - | - | All except 13A & 14 | - | - | - | - | - | - | - | - | Inspect/test system, leave down for GW sampling |
| 10/27/17 | 10:00 | - | 8 | - | - | - | - | - | - | - | All except 13A & 14 | - | - | - | - | - | - | - | - | Restarted system after GW sampling |
| 11/14/17 | 9:00 | - | 1 | - | - | - | - | - | - | - | All except 13A & 14 | - | - | - | - | - | - | - | - | Power bump/surge, blower low flow alarm, restarted |
| 11/16/17 | 7:00 | 357 | - | 20,098 | 51 | 62,657 | 8,576 | 75 | 40 | 32 | All except 13A & 14 | 2.2 | 825 | 0.4 | 230 | 0.017 | 111.7 | 80 | 775 | O&M, stack TO-15 sample |
| 12/7/17 | 14:00 | 378 | - | 21,269 | 51 | 66,675 | 9,084 | - | - | - | All except 13A & 14 | - | - | - | - | - | - | - | - | DAT tank high level alarm, system running upon arrival |
| 12/27/17 | 12:30 | - | - | - | - | - | - | - | - | - | All except 13A & 14 | - | - | - | - | - | - | - | - | Measure water levels and DO only |
| 12/28/17 | 7:00 | 399 | - | 22,800 | 51 | 70,712 | 9,585 | 75 | 35 | 30 | 1 to 19 | 2.2 | 810 | 0.2 | 160 | 0.012 | 112.3 | 90 | 1100 | O&M, stack & SVE well TO-15 samples, disposal |

**Table A3
SVE System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington**

| Date | Time | Operating Days (days) | System Down Time (days) | Electric Meter (KWH) | Blower | | | | Vacuum | | SVE Wells ⁶ | DP (in. w.c.) | Stack | | | PCE Removal Rate ⁴ (lb/day) | PCE Mass Removed ⁵ (lbs) | Condensate | | Notes |
|----------|-------|-----------------------|-------------------------|----------------------|------------|----------------------|---------------|-------------------|-------------------|---------------------|------------------------|---------------|--------------------------|------------------------|---|--|-------------------------------------|----------------|---|--|
| | | | | | Speed (hz) | Electric Meter (KWH) | Run Time (hr) | Temp. Out (deg F) | Blower (in. w.c.) | Manifold (in. w.c.) | | | Flow ¹ (scfm) | VOC ² (ppm) | Lab PCE ³ (µg/m ³) | | | DAT Tank (gal) | Holding Tank (gal) | |
| | | | | | | | | | | | | | | | | | | | | |
| 1/4/18 | 8:30 | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | O&M, changed blower and compressor oil, check belts | |
| 1/5/18 | 6:45 | 407 | - | 22,836 | 53 | 72,115 | 9,773 | 75 | 35 | 27 | 1 to 19 | 2.2 | 810 | - | - | - | - | 80 | 80 | SVE-10 ROI test, repair transfer pump seal |
| 1/17/18 | 8:00 | 419 | - | 23,641 | 53 | 74,327 | 10,057 | - | - | - | 1 to 19 | - | - | - | - | - | - | 80 | 150 | Replace bearings on compressor, belts on both units |
| 1/23/18 | 10:30 | 425 | - | 24,040 | 53 | 75,464 | 10,205 | 75 | 35 | 30 | 1 to 19 | 2.3 | 850 | 0.2 | 200 | 0.015 | 112.6 | 80 | 210 | O&M, stack TO-15 sample, shutdown for GW sampling |
| 1/29/18 | 12:20 | 425 | 6 | - | - | - | 10,205 | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Restarted system after GW sampling |
| 2/20/18 | - | - | 3 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Power outage on 2/18, equipment frozen, restarted |
| 2/21/18 | 6:45 | 445 | - | 25,223 | 53 | 79,279 | 10,685 | 70 | 36 | 29 | 1 to 19 | 2.4 | 860 | 0.2 | 200 | 0.015 | 112.9 | 80 | 340 | O&M, stack TO-15 sample |
| 3/10/18 | - | - | 1 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Power outage on 3/9, blower low flow alarm, restarted |
| 3/27/18 | 10:15 | 478 | - | 27,159 | 53 | 85,473 | 11,479 | 76 | 38 | 30 | 1 to 19 | 2.1 | 810 | 0.5 | 130 | 0.009 | 113.3 | 95 | 340 | O&M, stack TO-15 sample |
| 4/16/18 | - | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Shut down system for GW sampling |
| 4/20/18 | - | - | 4 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Restarted system after GW sampling |
| 4/25/18 | 10:00 | 502 | 1 | 28,566 | 53 | 89,903 | 12,055 | 80 | 35 | 32 | 1 to 19 | 2.0 | 790 | 0.3 | - | - | - | 90 | 340 | O&M, stack sample not analyzed - summa faulty. |
| 5/3/18 | - | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Heat exchanger failure. Shut off air sparging. |
| 5/16/18 | - | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Replace heat exchanger motor and transfer pump |
| 5/21/18 | 8:00 | 528 | 1 | 29,555 | 53 | 94,640 | 12,675 | 80 | 35 | 35 | 1 to 19 | 2.1 | 825 | 0.3 | 220 | 0.016 | 114.0 | 82 | 340 | O&M, stack TO-15 sample, raise motor speeds |
| 6/6/18 | 9:15 | - | - | 30,403 | 53 | - | - | 80 | 35 | 26 | 1 to 19 | 2.3 | 845 | - | - | - | - | 78 | 340 | Respond to heat exchanger alarm, restart |
| 6/7/18 | 13:35 | - | - | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Repond to heat exchanger alarm, rewire, restart |
| 6/18/18 | 13:35 | 556 | - | 31,063 | 53 | 99,732 | 13,344 | 100 | 30 | 26 | 1 to 19 | 2.5 | 865 | 0.4 | 240 | 0.019 | 114.5 | 82 | 340 | O&M, stack TO-15 sample, blower & comp service |
| 7/16/18 | 8:00 | 584 | - | 32,742 | 53 | 104,750 | 14,013 | 100 | 36 | 21 | 1 to 19 | 2.5 | 845 | 0.2 | 240 | 0.018 | 115.0 | 82 | 340 | O&M, stack TO-15 sample, shutdown for GW sampling |
| 7/23/18 | 8:00 | 584 | 7 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Restarted system after GW sampling |
| 8/17/18 | 6:30 | 609 | - | 34,231 | 53 | 109,213 | 14,611 | 80 | 36 | 20 | 1 to 19 | 2.5 | 860 | 0.2 | 400 | 0.031 | 115.6 | 55 | 340 | O&M, stack TO-15 sample |
| 9/12/18 | 8:00 | - | 0.5 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Power outage on 9/11, blower low flow alarm, restarted |
| 9/27/18 | 8:30 | 649 | - | 36,633 | 53 | 116,536 | 15,587 | 80 | 36 | 26 | 1 to 19 | 2.5 | 879 | 0.8 | 210 | 0.017 | 116.5 | 55 | 340 | O&M, stack and SVE well TO-15 samples |
| 10/13/18 | 14:00 | 666 | - | - | - | - | 15,973 | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Shut down system for GW sampling |
| 10/23/18 | 17:00 | 666 | 8 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Restarted system after GW sampling |
| 10/31/18 | 8:30 | 676 | - | 38,132 | 53 | 121,512 | 16,225 | 65 | 40 | 25 | 1 to 19 | 2.5 | 892 | 0.4 | 250 | 0.020 | 117.0 | 50 | 350 | O&M, stack TO-15 sample |
| 11/9/18 | 8:00 | - | - | 38,678 | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | 440 | Reset transfer pump level warning alarm. |
| 11/21/18 | 6:30 | 697 | - | 39,416 | 53 | 125,554 | 16,727 | 80 | 42 | 25 | 1 to 19 | 2.4 | 861 | 0.4 | 200 | 0.015 | 117.4 | 90 | 510 | O&M, stack TO-15 sample |
| 11/27/18 | 7:00 | 700 | 3 | - | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | Restarted system after alarm on 11/24 |
| 11/28/18 | 11:30 | 700 | 1 | 39,584 | - | - | - | - | - | - | 1 to 19 | - | - | - | - | - | - | - | 640 | Restarted system after power outage on 11/27 |
| 12/6/18 | 15:00 | 707 | 1 | 40,040 | 53 | 127,534 | 16,970 | - | - | - | 1 to 19 | - | - | - | - | - | - | - | - | System down 12/5 - high knockout level. Restart. |
| 12/13/18 | 16:00 | 714 | - | 40,456 | - | 128,865 | 17,132 | - | - | - | 1 to 19 | - | - | - | - | - | 117.7 | - | 845 | Power out alarm. Leave down for rebound evaluation. |
| 6/6/19 | 14:15 | 714 | - | - | 40 | 128,881 | 17,135 | 105 | 40 | 35 | See Note 7 | 1.0 | 542 | - | - | - | - | 142 | 850 | Service blower and compressor. Restart SVE system. |
| 6/7/19 | 13:20 | - | - | 40,644 | 36 | - | - | 80 | 41 | 35 | See Note 7 | 1.2 | 609 | - | - | - | - | 148 | 855 | O&M |
| 7/8/19 | 12:00 | 746 | - | 41,049 | 36 | 132,369 | 17,900 | 100 | 60 | 52 | See Note 7 | 1.1 | 572 | 0.1 | 440 | 0.023 | 118.3 | 140 | 0 | O&M, stack TO-15 sample, condensate disposal |
| 8/8/19 | 13:15 | 777 | - | 41,545 | 36 | 136,635 | 18,644 | 90 | 41 | 39 | See Note 7 | 1.1 | 577 | - | - | - | - | 10 | 130 | O&M |
| 9/27/19 | 10:05 | 785 | 41 | 41,718 | 36 | 137,619 | 18,851 | 80 | 44 | 39 | See Note 7 | 1.1 | 583 | - | - | - | - | 10 | 140 | O&M, system was off - restarted. Power outage on 8/17. No alarm sent - autodialer battery backup failed. |
| 10/28/19 | 11:16 | 816 | - | 42,127 | 36 | 141,045 | 19,595 | 70 | 35 | 29 | See Note 7 | 1.1 | 588 | 0.1 | 310 | 0.016 | 119.7 | 15 | 145 | O&M, stack TO-15 sample |
| 10/29/19 | 15:43 | 818 | - | 42,141 | 36 | 141,158 | 19,622 | 72 | 36 | 30 | See Note 7 | 1.1 | 588 | 0.1 | - | - | - | 15 | 145 | O&M |
| 11/1/19 | 14:45 | 820 | - | 42,173 | 36 | 141,435 | 19,684 | 70 | 38 | 28 | See Note 7 | 1.1 | 588 | - | - | - | - | 145 | 145 | Hi level alarm, service level switch, restart |
| 11/27/19 | 9:02 | 846 | - | 42,496 | 36 | 144,106 | 20,304 | 68 | 36 | 30 | See Note 7 | 1.1 | 588 | - | - | - | - | 90 | 475 | Mid-month O&M |
| 12/2/19 | - | - | - | - | - | - | - | - | - | - | See Note 7 | - | - | - | - | - | - | 90 | 575 | DAT high high alarm, serviced, restart |
| 12/13/19 | 13:45 | 862 | - | 42,692 | 36 | 145,755 | 20,680 | 65 | 39 | 30 | See Note 7 | 1.1 | - | - | - | - | - | 90 | 680 | KO high & KO high high alarm. Serviced. |
| 12/20/19 | 9:00 | 868 | - | 42,776 | 36 | 146,472 | 20,843 | 70 | 37 | 30 | See Note 7 | 1.1 | 588 | - | - | - | - | 90 | 790 | O&M. Soil and Water drums removed from site. |
| 12/27/19 | 9:45 | 876 | - | 42,863 | 36 | 147,220 | 21,012 | 67 | 35 | 30 | See Note 7 | 1.1 | 588 | - | - | - | 120.8 | 90 | 910 | KO high and low level switches stuck - service. |

**Table A3
SVE System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington**

| Date | Time | Operating Days (days) | System Down Time (days) | Electric Meter (KWH) | Blower | | | | Vacuum | | SVE Wells ⁶ | DP (in. w.c.) | Stack | | | PCE Removal Rate ⁴ (lb/day) | PCE Mass Removed ⁵ (lbs) | Condensate | | Notes |
|----------|-------|-----------------------|-------------------------|----------------------|------------|----------------------|---------------|-------------------|-------------------|---------------------|------------------------|---------------|--------------------------|------------------------|---|--|-------------------------------------|----------------|--|--|
| | | | | | Speed (hz) | Electric Meter (KWH) | Run Time (hr) | Temp. Out (deg F) | Blower (in. w.c.) | Manifold (in. w.c.) | | | Flow ¹ (scfm) | VOC ² (ppm) | Lab PCE ³ (µg/m ³) | | | DAT Tank (gal) | Holding Tank (gal) | |
| | | | | | | | | | | | | | | | | | | | | |
| 1/7/20 | 12:45 | 887 | - | 43,001 | 36 | 148,395 | 21,279 | 72 | 32 | 31 | See Note 7 | 1.1 | - | - | - | - | 120 | 1100 | KO high and low level switches stuck - service. | |
| 1/14/20 | 15:54 | 894 | - | 43,091 | 36 | 149,157 | 21,449 | 57 | 38 | 32 | See Note 7 | 1.1 | - | - | - | - | 90 | 1180 | KO high and low level switches stuck - service. | |
| 1/16/20 | 9:00 | 895 | - | 43,111 | 36 | 149,336 | 21,490 | 72 | 44 | 42 | See Note 7 | 1.1 | 587 | 0.5 | - | - | 32 | 0 | O&M, SVE blower and AS compressor serviced. | |
| 1/23/20 | 10:50 | 902 | - | 43,217 | 36 | 150,245 | 21,659 | 75 | 48 | 44 | See Note 7 | 1.1 | 586 | - | - | - | 90 | 0 | KO high level switch stuck - serviced. | |
| 2/4/20 | 8:30 | 914 | - | 43,397 | 36 | 151,789 | 21,945 | 70 | 48 | 45 | See Note 7 | 1.0 | 588 | - | - | - | 160 | 95 | DAT high high alarm, serviced, restart | |
| 2/10/20 | 11:40 | 918 | 2.6 | 43,453 | 36 | 152,239 | 22,027 | 65 | 50 | 45 | See Note 7 | 1.0 | 591 | - | - | - | 145 | 180 | SVE Low Flow alarm, restarted | |
| 2/13/20 | 11:20 | 921 | - | 43,499 | 36 | 152,633 | 22,099 | 72 | 45 | 41 | See Note 8 | 1.0 | 561 | 1.0 | 270 | 0.014 | 145 | 180 | O&M, Well Balancing, TO-15 Stack Sample. | |
| 2/19/20 | 10:30 | 927 | - | 43,585 | 36 | 153,375 | 22,242 | 72 | 46 | 40 | See Note 8 | 1.1 | 587 | - | - | - | 90 | 320 | KO high and low level switches stuck - service. | |
| 2/24/20 | 9:41 | 932 | - | 43,656 | 36 | 153,990 | 22,361 | 72 | 46 | 40 | See Note 8 | 1.1 | 587 | - | - | - | 132 | 375 | DAT high high alarm, serviced, restart | |
| 3/2/20 | 12:12 | 939 | - | 43,758 | 36 | 154,873 | 22,532 | 72 | 44 | 40 | See Note 8 | 1.1 | 587 | - | - | - | 132 | 475 | KO low level switch stuck - service. | |
| 3/9/20 | 13:36 | 946 | - | 43,859 | 36 | 155,745 | 22,700 | 75 | 46 | 41 | See Note 8 | 1.1 | 586 | - | - | - | 28 | 650 | DAT high high alarm, serviced, restart,routine O&M. | |
| 3/18/20 | - | - | - | - | - | - | - | - | - | - | See Note 8 | - | - | - | - | - | 10 | 760 | KO low level switch stuck - service. Transfer condensate.Dis | |
| 4/3/20 | 14:30 | 971 | - | 44,218 | 36 | 158,826 | 23,300 | 75 | 45 | 39 | See Note 8 | 1.1 | 586 | - | - | - | 10 | 900 | KO low level switch stuck - service. Transfer condensate | |
| 4/14/20 | 13:30 | 982 | - | 44,372 | 36 | 160,140 | 23,563 | 80 | 44 | 41 | See Note 9 | 1.1 | 582 | - | - | - | 10 | 940 | KO lo switch stuck - service. Trans cond. Balance wells. | |
| 4/16/20 | 14:30 | 984 | - | 44,402 | 36 | 160,399 | 23,613 | 90 | 47 | 42 | See Note 9 | 1.0 | 550 | 0.0 | - | - | 10 | 940 | Monitor wells with PID | |
| 5/19/20 | 11:00 | 1017 | - | 44,880 | 36 | 164,459 | 24,401 | 85 | 49 | 42 | See Note 9 | 1.1 | 580 | - | 260 | 0.014 | 122.6 | 10 | 940 | High level switch stuck - service. TO-15 stack sample. |
| 6/3/20 | 8:30 | 1032 | - | 45,094 | 36 | 166,280 | 24,758 | 84 | 49 | 44 | See Note 9 | 1.1 | 580 | - | - | - | 15 | 940 | Add oil to blower. Reconnect holding tank level switch. | |
| 6/8/20 | 11:00 | 1034 | 2.5 | 45,133 | 36 | 166,577 | 24,818 | 80 | 46 | 41 | See Note 9 | 1.1 | 582 | - | - | - | 15 | 940 | Blower fail to run alarm - reset - system started | |
| 6/16/20 | 11:45 | 1042 | - | 45,247 | 36 | 167,542 | 25,010 | 80 | 46 | 42 | See Note 9 | 1.1 | 582 | 0.2 | - | - | 15 | 940 | O&M; check SVE well field balance; move drums. | |
| 7/29/20 | 8:45 | 1085 | - | 45,853 | 36 | 172,677 | 26,038 | 87 | 46 | 41 | See Note 9 | 1.1 | 579 | - | - | - | 15 | 940 | O&M, SVE blower and AS compressor serviced. | |
| 8/28/20 | 14:48 | 1115 | - | 46,278 | 36 | 176,277 | 26,763 | 98 | 46 | 47 | See Note 9 | 1.1 | 573 | 0.7 | 11 | 0.001 | 123.3 | 15 | 940 | O&M, Balance wells. Refresh paint on well markers. |
| 9/8/20 | 12:40 | 1125 | 0.6 | 46,435 | 36 | 177,628 | 27,012 | 90 | 40 | 37 | See Note 9 | 1.1 | 577 | - | - | - | 15 | 940 | On site to turn system on after power outage | |
| 9/9/20 | 18:20 | 1127 | - | 46,449 | 36 | 177,751 | 27,038 | 102 | 47 | 45 | See Note 9 | 1.1 | 571 | - | - | - | 15 | 940 | Document fire damage. Troubleshoot autodialer. Repair. | |
| 9/24/20 | 11:20 | 1141 | - | 46,668 | 36 | 179,660 | 27,391 | 90 | 52 | 48 | See Note 9 | 1.0 | 550 | 0.3 | - | - | 15 | 940 | O&M; Monitor SVE wells, Replace monument lids. | |
| 10/8/20 | - | - | - | - | - | - | - | - | - | - | See Note 9 | - | - | - | - | - | - | - | - | Annual vegetation mowing on Harris property |
| 10/12/20 | 15:15 | 1159 | - | 46,924 | 36 | 182,053 | 27,827 | 90 | 49 | 49 | See Note 9 | 1.1 | 577 | - | - | - | 19 | 940 | O&M; Electrician spliced phone line. Fix leak on SVE-8. | |
| 11/2/20 | 15:55 | 1181 | - | 47,296 | 36 | 184,931 | 28,332 | 87 | 52 | 48 | See Note 9 | 1.0 | 552 | - | - | - | 19 | 940 | Turn off system for PSE meter changeout | |
| 11/3/20 | 12:45 | 1181 | 1.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Restart system after PSE meter changeout |
| 11/11/20 | 16:10 | 1188 | - | 47,394 | 36 | 186,027 | 28,518 | 75 | 55 | 50 | See Note 9 | 1.0 | 585 | - | - | - | 60 | 1000 | KO high level alarm - KO pump line clogged. Cleared | |
| 11/13/20 | 11:25 | 1190 | - | 47,423 | 36 | 186,286 | 28,562 | 85 | 53 | 51 | See Note 9 | 0.9 | 524 | - | - | - | 62 | 1000 | Holding Tank High Level alarm maintenance | |
| 11/18/20 | 11:30 | 1195 | - | 47,502 | 36 | 186,998 | 28,682 | 83 | 54 | 51 | See Note 9 | 1.0 | 524 | 0.0 | - | - | 90 | 1110 | Monitor wells with PID. Sample cond: Cond-111820 | |
| 12/2/20 | 15:00 | 1209 | - | 47,729 | 36 | 189,034 | 29,021 | 80 | 55 | 51 | See Note 9 | 1.0 | 555 | - | - | - | 39 | 1270 | KO high level switch stuck - service. Transfer condensate | |
| 12/9/20 | 13:25 | 1216 | - | 47,843 | 36 | 190,016 | 29,188 | 80 | 56 | 54 | See Note 9 | 1.0 | 555 | - | - | - | 25 | 1450 | KO high level switch stuck - service. Transfer condensate | |
| 12/18/20 | 11:05 | 1225 | - | 47,987 | 36 | 191,285 | 29,401 | 80 | 59 | 54 | See Note 9 | 1.0 | 555 | 0.2 | 210 | 0.010 | 123.9 | 0 | 0 | Sample: Stack-121820. Marvac removed condensate. |
| 12/23/20 | 17:10 | 1230 | - | 48,070 | 36 | 192,034 | 29,527 | 78 | 60 | 56 | See Note 9 | 1.0 | 556 | - | - | - | 20 | 80 | Transfer condensate | |
| 12/30/20 | 8:50 | 1237 | - | 48,178 | 36 | 192,999 | 29,687 | 78 | 60 | 55 | See Note 9 | 1.0 | 556 | - | - | - | 70 | 140 | KO high level switch stuck - service. Transfer condensate | |
| 1/7/21 | 15:00 | 1245 | - | 48,130 | 36 | 194,181 | 29,885 | 80 | 61 | 56 | See Note 9 | 1.0 | 555 | - | - | - | 48 | 290 | KO high level switch stuck - service. Transfer condensate | |
| 1/13/21 | 12:55 | 1251 | 0.6 | 48,397 | 36 | 194,958 | 30,016 | 80 | 59 | 55 | See Note 9 | 1.0 | 555 | - | - | - | 60 | 350 | Restart system after power outage. Transfer condensate | |
| 1/19/21 | 10:05 | 1257 | - | 48,492 | 36 | 195,813 | 30,157 | 80 | 62 | 56 | See Note 9 | 1.0 | 555 | - | - | - | 29 | 480 | Meet Wyser for site walk. Transfer condensate | |
| 1/28/21 | 9:52 | 1266 | - | 48,638 | 36 | 197,115 | 30,373 | 80 | 62 | 56 | See Note 9 | 1.0 | 556 | - | - | - | 10 | 630 | Turn system OFF for SVE Expansion | |
| 2/19/21 | 10:09 | 1266 | 21.9 | 48,469 | 39 | 197,124 | 30,374 | 66 | 32 | 29 | See Note 10 | 1.3 | 642 | 2.2 | - | - | 10 | 640 | Turn system ON; Adjust blower speed. Bal SVE wells. | |
| 2/22/21 | 7:00 | 1268 | - | 48,469 | 39 | 197,495 | 30,444 | 75 | 42 | 38 | See Note 10 | 1.2 | 611 | - | - | - | 10 | 640 | Turn system OFF to plumb in SVE-22 | |
| 2/22/21 | 16:50 | 1269 | - | 48,469 | 39 | 197,499 | 30,444 | 75 | 40 | 36 | See Note 10 | 1.3 | 636 | - | - | - | 10 | 640 | Turn system ON | |
| 2/23/21 | 8:40 | 1269 | - | 48,702 | 39 | 197,585 | 30,460 | 75 | 42 | 39 | See Note 10 | 1.3 | 636 | 1.0 | - | - | 10 | 640 | O&M; Balance SVE wells | |
| 2/26/21 | 12:40 | 1272 | - | 48,750 | 39 | 197,997 | 30,536 | 75 | 42 | 39 | See Note 10 | 1.3 | 636 | - | - | - | 119 | 640 | O&M; MarVac remove condensate from holding tank | |
| 3/1/21 | 10:45 | 1275 | - | 48,793 | 39 | 198,374 | 30,606 | 75 | 42 | 39 | See Note 10 | 1.3 | 636 | - | - | - | 10 | 160 | Turn system OFF to service KO | |

Table A3
SVE System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington

| Date | Time | Operating Days (days) | System Down Time (days) | Electric Meter (KWH) | Blower | | | | Vacuum | | SVE Wells ⁶ | DP (in. w.c.) | Stack | | | PCE Removal Rate ⁴ (lb/day) | PCE Mass Removed ⁵ (lbs) | Condensate | | Notes | |
|----------|-------|-----------------------|-------------------------|----------------------|------------|----------------------|---------------|-------------------|-------------------|---------------------|------------------------|---------------|--------------------------|------------------------|---|--|-------------------------------------|----------------|--------------------|--|--|
| | | | | | Speed (hz) | Electric Meter (KWH) | Run Time (hr) | Temp. Out (deg F) | Blower (in. w.c.) | Manifold (in. w.c.) | | | Flow ¹ (scfm) | VOC ² (ppm) | Lab PCE ³ (µg/m ³) | | | DAT Tank (gal) | Holding Tank (gal) | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 3/1/21 | 14:45 | 1275 | - | 48,794 | 39 | 198,675 | 30,607 | 75 | 33 | 39 | See Note 11 | 1.3 | 636 | - | - | - | - | 10 | 160 | Turn system ON. SVE-22 connected | |
| 3/2/21 | 10:45 | 1276 | - | 48,805 | 36 | 198,487 | 30,630 | 75 | 35 | 36 | See Note 11 | 1.1 | 585 | 0.1 | 180 | 0.009 | 124.4 | 10 | 160 | O&M; Balance SVE wells and collect air samples. | |
| 3/12/21 | 13:30 | 1286 | - | 48,933 | 36 | 199,562 | 30,871 | 78 | 46 | 46 | See Note 11 | 1.1 | 584 | 0.2 | 210 | 0.011 | 124.5 | 75 | 240 | O&M; Balance SVE wells and collect stack sample | |
| 3/19/21 | 7:55 | 1293 | - | 49,019 | 36 | 200,299 | 31,031 | 80 | 45 | 46 | See Note 11 | 1.1 | 583 | - | - | - | - | 62 | 330 | O&M; Balance SVE wells | |
| 4/6/21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Investigate and measure catch basin. |
| 4/20/21 | 11:50 | 1325 | - | 2,723 | 36 | 204,341 | 31,800 | 90 | 46 | 46 | See Note 11 | 1.1 | 583 | 0.2 | - | - | - | 50 | 490 | O&M; monitor SVE wells, monitor vapor pins | |
| 4/21/21 | 8:00 | 1326 | - | 2,840 | 36 | 204,440 | 31,820 | 80 | 49 | 46 | See Note 11 | 1.1 | 577 | - | - | - | - | 60 | 490 | O&M; B&K change oil in SVE blower | |
| 5/27/21 | 12:15 | 1362 | - | 8,008 | 36 | 208,855 | 32,688 | 85 | 50 | 47 | See Note 11 | 1.0 | 553 | 0.2 | - | - | - | 80 | 490 | O&M; Monitor SVE field and SVS-17 | |
| 7/1/21 | 13:30 | 1397 | - | 12,822 | 36 | 212,938 | 33,526 | 100 | 38 | 36 | See Note 11 | 1.0 | 546 | 0.2 | 250 | 0.012 | 125.8 | 81 | 490 | O&M; Monitor SVE field and vapor pins. Sample Stack | |
| 8/13/21 | 10:45 | 1438 | 1.9 | 18,352 | 36 | 217,627 | 34,514 | 100 | 45 | 41 | See Note 11 | 1.0 | 546 | - | - | - | - | 81 | 490 | Blower low flow alarm - reset. Spray weeds around site. | |
| 10/28/21 | 12:15 | 1510 | 4.2 | 28,096 | 36 | 225,847 | 36,237 | 75 | 49 | 44 | See Note 11 | - | - | - | - | - | - | 82 | 500 | Blower down due to power outage - restart. | |
| 11/11/21 | 11:45 | 1520 | 4.1 | 29,543 | 36 | 227,047 | 36,473 | 75 | 48 | 42 | See Note 11 | - | - | - | - | - | - | 100 | 620 | System down - KO hi-hi alarm. Transfer condensate | |
| 11/24/21 | 15:35 | 1532 | 0.3 | 31,371 | 36 | 228,616 | 36,778 | 75 | 49 | - | See Note 11 | - | - | - | - | - | - | 92 | 760 | System down - KO hi and hi-hi alarms. Transfer cond. | |
| 12/8/21 | 12:15 | 1546 | - | 33,398 | 36 | 230,630 | 37,110 | 80 | - | - | See Note 11 | - | - | - | - | - | - | 80 | 875 | DAT high alarm. Transfer condensate. System running. | |
| 12/20/21 | 16:30 | 1558 | - | 35,187 | 36 | 231,911 | 37,403 | 74 | 46 | 44 | See Note 11 | - | - | - | - | - | 127.7 | 10 | 1200 | DAT high alarm. Transfer condensate. System running. | |
| 1/5/22 | 12:15 | 1568 | 6.0 | - | 36 | 233,191 | 37,643 | 70 | 46 | 41 | See Note 11 | - | - | - | - | - | - | 90 | 1360 | KO high high Alarm. Transfer condensate. Restart. | |
| 1/14/22 | 8:20 | 1577 | 0.2 | 38,059 | 36 | 234,331 | 37,854 | 77 | 40 | - | See Note 11 | - | - | - | - | - | - | 195 | 1400 | DAT high alarm. Marvac remove condensate. | |
| 1/27/22 | 16:05 | 1588 | 2.5 | 39,653 | 36 | 235,687 | 38,106 | 80 | 60 | 50 | See Note 11 | - | - | - | - | - | - | 120 | 25 | Restart system. Service KO low level switch | |
| 2/4/22 | 14:20 | 1595 | 0.5 | 40,765 | 36 | 236,647 | 38,287 | 70 | 50 | 46 | See Note 11 | - | - | - | - | - | - | 90 | 170 | Restart system. Service KO low level switch | |
| 2/10/22 | 10:45 | 1601 | - | 41,623 | 36 | 237,389 | 38,426 | 75 | 51 | 49 | See Note 11 | 1.0 | 558 | - | - | - | - | 90 | 240 | Balance SVE wells. SVE blower serviced by B&K. | |
| 2/25/22 | 11:55 | 1616 | 0.4 | 43,749 | 36 | 239,210 | 38,778 | 80 | 42 | 40 | See Note 11 | - | - | - | - | - | - | 100 | 420 | Restart system. Service KO low level switch | |
| 3/21/22 | 16:15 | 1616 | 23.8 | - | 36 | 239,231 | 38,782 | 75 | 49 | 45 | See Note 11 | 0.9 | 529 | 0.2 | 200 | 0.010 | 128.1 | 103 | 430 | Restart system. Replace KO low level switch | |
| 4/13/22 | 10:15 | 1638 | 0.7 | 46,870 | 36 | 241,692 | 39,317 | 75 | 16 | 12 | See Note 11 | 1.0 | 558 | - | - | - | - | 40 | 600 | KO Alarm. Remake electrical connections. Restart. | |
| 4/26/22 | 8:56 | 1651 | - | 48,539 | 36 | 243,110 | 39,627 | 77 | 18 | 23 | See Note 11 | 1.0 | 558 | 0.3 | - | - | - | 120 | 600 | Routine O&M. Mark alley for pending PSE gas line. | |
| 6/2/22 | 11:23 | 1688 | - | 53,402 | 36 | 247,230 | 40,518 | 90 | 25 | 22 | See Note 11 | 1.3 | 622 | - | 140 | 0.008 | 128.8 | 120 | 600 | Sample stack and operating SVE legs | |
| 6/27/22 | 16:20 | 1713 | - | 56,627 | 36 | 249,941 | 41,123 | 110 | 37 | 34 | See Note 11 | 1.2 | 592 | 0.5 | - | - | - | 120 | 600 | Routine O&M. Annual mowing on Harris. | |
| 7/20/22 | 9:00 | 1729 | 7.6 | 58,789 | 36 | 251,695 | 41,493 | 85 | 38 | 36 | See Note 11 | 1.0 | 553 | 0.3 | - | - | - | 121 | 600 | Alarm - blower low flow. Test. VFD overheating - leave off | |
| 7/25/22 | 7:00 | 1729 | 5.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 121 | 600 | Electrician - determines VFD has failed. | |
| 8/3/22 | 7:00 | 1729 | 9.0 | 58,853 | 36 | 0 | 0 | 80 | 30 | - | See Note 11 | 1.1 | 580 | - | - | - | - | 121 | 600 | Install new VFD and restart system. Blower data reset. | |
| 8/12/22 | 9:14 | 1738 | - | - | 36 | - | 217 | - | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - power out. |
| 8/15/22 | 8:41 | 1738 | 3.0 | 60,075 | 36 | - | 217 | 85 | 25 | - | See Note 11 | 1.1 | 580 | - | - | - | - | - | - | - | Restart blower |
| 8/31/22 | 7:00 | 1754 | - | 62,209 | 36 | 2,810 | 603 | 100 | 30 | 24 | See Note 11 | 1.0 | 546 | 0.2 | - | - | - | 121 | 600 | Replace autodialer batteries. | |
| 9/8/22 | 9:45 | 1762 | - | - | 36 | - | 611 | - | - | - | See Note 11 | - | 546 | - | 370 | 0.018 | 129.6 | - | - | - | Collect stack sample. SVE blower serviced by B&K |
| 9/28/22 | 7:00 | 1782 | - | 66,020 | 36 | 6,019 | 1,274 | 75 | 27 | 24 | See Note 11 | 1.1 | 586 | 0.2 | - | - | - | 122 | 600 | Install SVS-18. Monitor SVE legs | |
| 10/21/22 | 11:10 | 1805 | - | 68,693 | 36 | 8,216 | 1,827 | 76 | 27 | 25 | See Note 11 | 1.2 | 611 | 0.2 | - | - | - | 122 | 600 | O&M | |
| 11/4/22 | 9:40 | 1819 | - | - | 36 | - | 2,173 | - | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - power out |
| 11/8/22 | 9:00 | 1819 | 4.0 | 70,474 | 36 | 9,652 | 2,173 | 70 | 27 | 22 | See Note 11 | 1.1 | 588 | - | - | - | - | 170 | 640 | Restart System, transfer DAT water to holding tank | |
| 11/17/22 | 8:40 | 1828 | - | - | 36 | - | 2,390 | - | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - power out |
| 11/18/22 | 16:50 | 1828 | 1.0 | 71,605 | 36 | 10,597 | 2,390 | - | - | - | See Note 11 | - | - | - | - | - | - | 170 | 725 | Restart system. O&M | |
| 11/21/22 | 15:00 | 1831 | - | - | - | - | 2,460 | - | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - KO tank hi-hi |
| 11/23/22 | 14:11 | 1831 | 2.0 | 72,006 | 36 | 10,912 | 2,460 | 70 | 30 | 22 | See Note 11 | 1.1 | 588 | - | - | - | - | 90 | 840 | Restart system | |
| 12/2/22 | 11:00 | 1840 | - | 73,106 | 36 | 11,840 | 2,670 | 70 | 31 | 27 | See Note 11 | 1.0 | 561 | 0.2 | 160 | 0.008 | 130.8 | 170 | 925 | Collect stack sample | |
| 12/26/22 | 7:45 | 1861 | - | - | - | - | 3,173 | - | - | - | - | - | - | - | - | - | - | - | - | - | Alarm - KO pump starter tripped |
| 12/28/22 | 13:00 | 1861 | 2.0 | 72,006 | 36 | 14,082 | 3,173 | 60 | 37 | 30 | See Note 11 | 1.2 | 620 | - | - | - | - | 170 | 1350 | Restart system | |
| 1/11/23 | 11:00 | 1875 | - | 77,667 | 36 | 15,616 | 3,505 | 75 | 37 | 25 | See Note 11 | 1.2 | 611 | - | - | - | - | 200 | 1500 | Monitor SVE legs | |
| 1/21/23 | 16:17 | 1885 | - | - | - | - | 3,750 | - | - | - | - | - | - | - | - | - | - | 290 | 1500 | Alarm - KO tank hi-hi | |

**Table A3
SVE System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington**

| Date | Time | Operating Days (days) | System Down Time (days) | Electric Meter (KWH) | Blower | | | | Vacuum | | SVE Wells ⁶ | Stack | | | | PCE Removal Rate ⁴ (lb/day) | PCE Mass Removed ⁵ (lbs) | Condensate | | Notes |
|---------|-------|-----------------------|-------------------------|----------------------|------------|----------------------|---------------|-------------------|-------------------|---------------------|------------------------|---------------|--------------------------|------------------------|---|--|-------------------------------------|----------------|--|----------------------|
| | | | | | Speed (hz) | Electric Meter (KWH) | Run Time (hr) | Temp. Out (deg F) | Blower (in. w.c.) | Manifold (in. w.c.) | | DP (in. w.c.) | Flow ¹ (scfm) | VOC ² (ppm) | Lab PCE ³ (µg/m ³) | | | DAT Tank (gal) | Holding Tank (gal) | |
| | | | | | | | | | | | | | | | | | | | | |
| 2/22/23 | 10:10 | 1885 | 32 | 79,331 | 36 | 16,677 | 3,750 | 60 | 26 | 23 | See Note 11 | 1.1 | 593 | 0.3 | - | - | 10 | 0 | ACT remove condensate. Restart System | |
| 3/31/23 | 15:25 | 1922 | - | 83,858 | 36 | 20,443 | 4,644 | 74 | 28 | 24 | See Note 11 | 1.2 | 612 | - | 86 | 0.005 | 131.3 | 170 | 310 | Collect stack sample |
| 4/6/23 | 8:55 | 1928 | - | 84,565 | 36 | 21,029 | 4,783 | 75 | 27 | 25 | See Note 11 | 1.1 | 585 | 0.7 | - | - | 170 | 400 | Balance SVE legs | |
| 4/25/23 | 9:00 | 1947 | - | 87,147 | 36 | 23,189 | 5,239 | 78 | 32 | 28 | See Note 11 | 1.2 | 609 | 0.1 | - | - | 62 | 680 | Blower running in Hand temporarily pending electrician. Blower service - oil change and belt adjustment. | |
| 5/4/23 | 7:30 | 1956 | - | - | 36 | - | 5,455 | - | - | - | See Note 11 | - | - | - | - | - | 62 | 680 | Repair PLC (fuse) and replace float switch in holding tank. | |
| 6/1/23 | 9:55 | 1984 | - | 91855 | 36 | 27138 | 6,124 | 80 | 31 | 28 | See Note 11 | 1.2 | 608 | 0 | - | - | 62 | 680 | Unable to monitor SVE legs due to heavy vegetation. | |
| 6/15/23 | 11:45 | 1998 | - | 93606 | 36 | 28592 | 6,461 | 85 | 30 | 28 | See Note 11 | 1.3 | 630 | 0 | - | - | 62 | 680 | Faulty summa canister - no stack sample collected | |
| 6/24/23 | 1:00 | 2007 | - | - | - | - | 6,671 | - | - | - | - | - | - | - | - | 131.7 | - | - | Alarm - low SVE blower flow | |
| 7/6/23 | 9:15 | 2007 | 12 | 94,863 | 36 | 29,501 | 6,671 | 80 | 30 | 27 | See Note 11 | 1.2 | 608 | - | - | - | 62 | 680 | Check system during drilling waste drum pickup. Restart briefly to confirm operation and then shut down. | |

Notes:

1. Calculated flow rate based on velocity measurements in feet per minute, converted to cfm based on pipe cross sectional area, and normalized to standard conditions
2. As measured with a photoionization detector (PID)
3. SVE system discharge samples analyzed for VOCs using United States Environmental Protection Agency Method TO-15; see laboratory reports for the complete analytical list.
4. Mass Removal Rate = [flow (scfm) * PCE (µg/m³) * 28.3168 (L/cf) / 1,000 (L/m³) / 453,592,370 (µg/lb) * 60 (min/hour) * 24 (hour/day)]
5. Cumulative mass removed = average mass removal rates from previous and current O&M visit * period run time.
6. SVE wells operating. The numbers refer to the SVE well number: SVE-1, SVE-2, SVE-3, SVE-4, SVE-5, SVE-6, SVE-7, SVE-8, SVE-9, SVE-10, SVE-11a, SVE-11b, SVE-12a, SVE-12b, SVE-13a, SVE-14, SVE-15, SVE-16, SVE-17, SVE-18, and SVE-19.
7. Operating SVE wells include SVE-2, SVE-3, SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-15, SVE-16, and SVE-18.
8. Operating SVE wells include SVE-2, SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-15, and SVE-18.
9. Operating SVE wells include SVE-2, SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-15, SVE-16, and SVE-18.
10. Operating SVE wells include SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-20, SVE-21, SVE-23, SVE-24, and SVE-25.
11. Operating SVE wells include SVE-5, SVE-6, SVE-7, SVE-8, SVE-10, SVE-11A, SVE-12A, SVE-20, SVE-21, SVE-22, SVE-23, SVE-24, and SVE-25.

KWH = Kilowatt Hours
in. w.c. = inches of water column
scfm = standard cubic feet per minute
deg F = degrees Fahrenheit

NM = not measured
PCE = tetrachloroethene
ppm = parts per million
DAT = diffused aeration tank

VOC = Volatile Organic Compounds
µg/m³ = micrograms per cubic meter
lb/day = pounds per day
Temp. = Temperature

DP = Differential Pressure
EJ = estimated value

**Table A4
Historical Tetrachloroethene Concentrations in SVE Wells
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| SVE Well | Screen Depth (ft bgs) | 06/04/10 | 01/26/11 | 12/09/11 | 11/05/13 | 12/12/16 | | 12/28/17 | | 09/27/18 | | 03/02/21 | | 06/02/22 | |
|----------|-----------------------|----------|----------|----------|----------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
| | | (µg/m3) | (µg/m3) | (µg/m3) | (µg/m3) | (µg/m3) | (scfm) | (µg/m3) | (scfm) | (µg/m3) | (scfm) | (µg/m3) | (scfm) | (µg/m3) | (scfm) |
| SVE-1 | 10-35 | 3,900 | 1,300 | 1,600 | 1,010 | 499 | 46 | 120 | 44 | 160 | 48 | -- | -- | -- | -- |
| SVE-2 | 10-35 | 740 | 1,600 | 1,300 | 977 | 374 | 47 | 210 | 39 | 240 | 43 | -- | -- | -- | -- |
| SVE-3 | 10-30 | 7,100 | 2,900 | 2,500 | 1,920 | 338 | 44 | 50 | 38 | 750 | 47 | -- | -- | -- | -- |
| SVE-4 | 10-30 | 330 | 870 | 910 | 412 | 332 | 32 | 59 | 26 | 130 | 41 | -- | -- | -- | -- |
| SVE-5 | 10-30 | 5,100 | 2,500 | 1,200 | 499 | 716 | 31 | 170 | 20 | 270 | 53 | -- | 45 | 660 J | 24 |
| SVE-6 | 5-10 | 17,000 | 4,400 | 2,900 | 827 | 1,490 | 30 | 150 | 47 | 950 | 39 | -- | 38 | 340 | 34 |
| SVE-7 | 10-30 | 3,300 | 1,700 | 1,400 | 723 | 1,130 | 31 | 350 | 32 | 400 | 30 | -- | 45 | 120 | 42 |
| SVE-8 | 10-30 | 590 | 800 | 6 | 448 | 703 | 30 | 320 | 18 | 210 | 51 | -- | 47 | 49 | 41 |
| SVE-9 | 10-30 | 880 | 740 | 750 | 325 | 379 | 36 | 170 | 17 | 170 | 23 | -- | -- | -- | -- |
| SVE-10 | 10-30 | 1,300 | 1,100 | 1,300 | 709 | 398 | 49 | 290 | 42 | 270 | 48 | -- | 45 | 72 | 46 |
| SVE-11A | 5.0-20.0 | -- | -- | -- | -- | 136 | 35 | 68 | 47 | 100 | 46 | -- | 43 | 74 | 13 |
| SVE-11B | 20.0-35.0 | -- | -- | -- | -- | 149 | 47 | 24 | 37 | 68 | 41 | -- | -- | -- | -- |
| SVE-12A | 5.0-20.0 | -- | -- | -- | -- | 217 | 23 | 310 | 33 | 110 | 31 | -- | 38 | 330 | 17 |
| SVE-12B | 20.0-35.0 | -- | -- | -- | -- | 295 | 48 | 54 | 35 | 160 | 37 | -- | -- | -- | -- |
| SVE-13A | 5.0-20.0 | -- | -- | -- | -- | 145 | 48 | 36 | 43 | 94 | 46 | -- | -- | -- | -- |
| SVE-13B | 20.0-35.0 | -- | -- | -- | -- | 241 | 47 | 180 | 47 | 96 | 41 | -- | -- | -- | -- |
| SVE-14 | 19.6-34.6 | -- | -- | -- | -- | 144 | 37 | 120 | 38 | 110 | 44 | -- | -- | -- | -- |
| SVE-15 | 20.6-35.0 | -- | -- | -- | -- | 373 | 35 | 190 | 30 | 170 | 39 | -- | -- | -- | -- |
| SVE-16 | 20.5-34.8 | -- | -- | -- | -- | 587 | 35 | 310 | 44 | 330 | 36 | -- | -- | -- | -- |
| SVE-17 | 19.9-29.9 | -- | -- | -- | -- | 65.1 | 43 | 5.9 | 35 | 3.3 | 11 | -- | -- | -- | -- |
| SVE-18 | 19.8-29.8 | -- | -- | -- | -- | 380 | 42 | 59 | 48 | 110 | 40 | -- | -- | -- | -- |
| SVE-19 | 20.0-30.0 | -- | -- | -- | -- | 147 | 44 | 39 | 49 | 71 | 45 | -- | -- | -- | -- |
| SVE-20 | 10.3-25.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 170 | 46 | 110 | 53 |
| SVE-21 | 25.7-37.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 310 | 44 | 200 | 56 |
| SVE-22 | 20.6-35.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 230 | 45 | 110 | 55 |
| SVE-23 | 20.3-35.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 170 | 46 | 61 | 56 |
| SVE-24 | 10.3-22.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 69 | 46 | 46 | 56 |
| SVE-25 | 22.8-35.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.4 | 57 | 36 | 35 |
| Stack | -- | 3,000 | 2,050 | 1,300 | 730 | 280 | 860 | 160 | 160 | 210 | 879 | 180 | 585 | 140 | 529 |

Notes:

1. Tetrachloroethene (PCE) concentrations in micrograms per cubic meter (µg/m³)
2. Flow rate in standard cubic feet per minute (scfm)
3. '-- = NA or NM
4. J = estimated result based on data validation review.
5. SVE-1 through SVE-10 began operating in 2009. Flow rates for wells and stack are not readily available through 2013. SVE-11A through SVE-19 began operation in 2016. SVE-20 through SVE-25 began operating in 2021.

Table A5
Soil Vapor Monitoring Probe Field Data
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Date | Four Star Cleaners | | | | Former Manhattan Cleaners | | | | | | Alley | | Kintsugi PT | |
|----------|----------------------|---------------------------|----------------------|---------------------------|---------------------------|---------------------------|----------------------|---------------------------|----------------------|--------------|----------------------|---------------------------|----------------------|---------------------------|
| | SVS-10 | | SVS-11 | | SVS-13 | | SVS-14 | | SVS-15 | | SVS-17 | | SVS-18 | |
| | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) | Vacuum (in. w.c.) | VOC ¹ (ppm) |
| 4/20/21 | 0.1 | 0.5 | 0.2 | 0.4 | 0.7 | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 | 2.8 | 0.5 | - | - |
| 5/27/21 | - | - | - | - | - | - | - | - | - | - | 3.2 | 0.1 | - | - |
| 7/1/21 | 0.1 | 0.0 | 0.2 | 0.0 | 0.7 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 3.1 | 0.3 | - | - |
| 3/21/22 | 0.2 | 1.0 | 0.4 | 0.1 | 0.7 | 0.4 | 0.2 | 0.5 | 0.5 | 0.4 | 3.2 | 0.0 | - | - |
| 4/26/22 | 0.02 | 0.7 | 0.1 | 0.4 | 0.7 | 0.3 | 0.0 | 0.3 | 0.1 | 0.4 | 3.7 | 0.2 | - | - |
| 6/2/22 | 0.02 | - | 0.1 | - | 0.7 | - | 0.06 | - | 0.1 | - | 2.6 | - | - | - |
| 6/27/22 | 0.02 | - | 0.1 | 0.9 | 0.9 | 0.6 | 0.04 | 0.4 | 0.1 | 0.2 | 2.4 | 0.5 | - | - |
| 8/31/22 | 0.01 | 0.2 | 0.1 | 0.0 | 0.7 | 0.3 | 0.08 | 0.1 | 0.1 | 0.2 | 1.8 | 0.7 | - | - |
| 9/28/22 | 0.01 | 0.6 | 0.1 | 0.3 | 0.6 | 0.3 | 0.02 | 0.2 | 0.1 | 0.2 | 2.3 | 0.0 | 0.1 | 0.5 |
| 10/21/22 | 0.02 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.01 | 0.2 | 0.2 | 0.2 | 1.8 | 0.0 | 0.1 | 0.2 |
| 12/2/22 | 0.01 | 0.5 | 0.1 | 0.5 | 0.6 | 0.2 | 0.14 | 0.2 | 0.1 | 0.1 | 2.0 | 0.3 | 0.2 | 0.4 |
| 1/11/23 | 0.01 | 0.2 | 0.1 | 0.2 | 0.7 | 0.4 | 0.01 | 0.4 | 0.1 | 1.2 | 3.5 | 0.6 | 0.1 | 0.1 |
| 4/6/23 | 0.01 | - | 0.1 | - | 0.01 | - | 0.05 | - | 0.01 | - | 2.6 | - | 0.03 | - |
| 4/25/23 | 0.02 | 0.4 | 0.1 | 0.3 | 0.6 | 0.0 | 0.01 | 0.0 | 0.1 | 0.0 | 2.8 | 0.4 | 0.03 | 0.2 |
| 6/1/23 | 0.01 | - | 0.9 | - | 0.7 | - | 0.03 | - | 0.1 | - | 0.1 | - | 0.90 | - |

Notes:

- As measured with a photoionization detector (PID)
- Decommissioned SVS-12 and SVS 16 on June 2, 2022.
- SVS-10 may not have an air tight seal
- Installed SVS-18 inside Kintsugi Physical Therapy office on September 28, 2022

in. w.c. = inches of water column
ppm = parts per million as measured with a photo-ionization detector (PID)

ATTACHMENT B

LABORATORY REPORTS AND DATA VALIDATION MEMORANDA



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

LABORATORY REPORT

April 8, 2022

Matt Dahl
NV5
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

RE: MVSC / 4430.19.1358.001.02-015

Dear Matt:

Enclosed are the results of the sample submitted to our laboratory on March 25, 2022. For your reference, this analysis has been assigned our service request number P2201332.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Sue Anderson
By Sue Anderson at 12:59 pm, Apr 08, 2022

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: NV5
Project: MVSC / 4430.19.1358.001.02-015

Service Request No: P2201332

CASE NARRATIVE

The sample was received intact under chain of custody on March 25, 2022 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The sample was analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The lower control criterion was exceeded for hexachlorobutadiene in the Continuing Calibration Verification (CCV) analyzed on April 6, 2022. The error associated with the reduced recovery equates to a potential low bias. However, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed and verified that instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Since the sensitivity was verified and the sample was non-detect, the data quality has not been significantly affected. No further corrective action was taken.

The container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

| Agency | Web Site | Number |
|------------------------|---|----------------------------|
| Alaska DEC | http://dec.alaska.gov/eh/lab.aspx | 17-019 |
| Arizona DHS | http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home | AZ0694 |
| Florida DOH (NELAP) | http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html | E871020 |
| Louisiana DEQ (NELAP) | http://www.deq.louisiana.gov/page/la-lab-accreditation | 05071 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml | 2018027 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 1776326 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/enforcement/oqa.html | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | 4068-008 |
| Pennsylvania DEP | http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx | 68-03307 (Registration) |
| PJLA (DoD ELAP) | http://www.pjlabs.com/search-accredited-labs | 65818 (Testing) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html | T104704413- 19-10 |
| Utah DOH (NELAP) | http://health.utah.gov/lab/lab_cert_env | CA01627201 9-10 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: NV5
Project ID: MVSC / 4430.19.1358.001.02-015

Service Request: P2201332

Date Received: 3/25/2022
Time Received: 09:34

TO-15 - VOC Cans

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Container ID | Pi1 (psig) | Pf1 (psig) | |
|------------------|--------------|--------|----------------|----------------|--------------|------------|------------|---|
| STACK-032122 | P2201332-001 | Air | 3/21/2022 | 16:30 | SC01785 | -1.60 | 3.54 | X |



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161

| | | | | | | | | | | |
|---|----------------------|---|-------------------------------|---|--|--|---|-------------------------------------|--|-----------------------------------|
| Company Name & Address (Reporting Information) PES ENVIRONMENTAL 2101 4th Ave #1310 SEATTLE, WA 98122 Project Manager: Math Dahl | | Project Name: MVSC Project Number: 4430.19.1358.001.02-015 P.O. # / Billing Information | | Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard | | ALS Project No. P2201332 | | | | |
| Phone: 206 529 3980 Fax: 206 529 3985 | | Sampler (Print & Sign) R. McLaughlin | | ALS Contact: | | Analysis Method | Comments e.g. Actual Preservative or specific instructions | | | |
| Email Address for Result Reporting Math.Dahl@PES.COM | | Canister ID SC01785 | | ALS Contact: | | | | | | |
| Client Sample ID STACK-032122 | Laboratory ID Number | Date Collected 3/21/22 | Time Collected 1630 | Canister ID (Bar code # - AC, SC, etc.) | Flow Controller ID (Bar code # - FC #) | Canister Start Pressure ^u Hg -29 | Canister End Pressure ^u Hg/psig -4 | Sample Volume 6L | Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> | Project Requirements (MRLs, QA/P) |
| Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) 10% Surcharge _____ | | EDD required Yes / No _____ Type: _____ Units: _____ | | Received by: (Signature) _____ Received by: (Signature) _____ | | Date: 3-25 Time: 0934 Date: _____ Time: _____ | | Cooler / Blank Temperature _____ °C | | |

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NV5
Client Sample ID: STACK-032122
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P2201332-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC01785

Date Collected: 3/21/22
 Date Received: 3/25/22
 Date Analyzed: 4/7 - 4/8/22
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.39

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 0.72 | ND | 0.42 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 4.1 | 0.74 | 0.82 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.71 | ND | 0.34 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.75 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.72 | ND | 0.28 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.72 | ND | 0.33 | |
| 74-83-9 | Bromomethane | ND | 0.71 | ND | 0.18 | |
| 75-00-3 | Chloroethane | ND | 0.71 | ND | 0.27 | |
| 64-17-5 | Ethanol | ND | 7.0 | ND | 3.7 | |
| 75-05-8 | Acetonitrile | ND | 1.4 | ND | 0.83 | |
| 107-02-8 | Acrolein | ND | 1.4 | ND | 0.61 | |
| 67-64-1 | Acetone | ND | 7.2 | ND | 3.0 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 2.5 | 0.72 | 0.44 | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 1.4 | ND | 0.57 | |
| 107-13-1 | Acrylonitrile | ND | 1.4 | ND | 0.64 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.75 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | ND | 0.72 | ND | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.74 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.75 | ND | 0.098 | |
| 75-15-0 | Carbon Disulfide | ND | 1.5 | ND | 0.49 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.74 | ND | 0.20 | |
| 108-05-4 | Vinyl Acetate | ND | 7.0 | ND | 2.0 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1.4 | ND | 0.47 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: NV5
Client Sample ID: STACK-032122
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P2201332-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC01785

Date Collected: 3/21/22
 Date Received: 3/25/22
 Date Analyzed: 4/7 - 4/8/22
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.39

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | 1.7 | 0.72 | 0.42 | 0.18 | |
| 141-78-6 | Ethyl Acetate | ND | 2.9 | ND | 0.81 | |
| 110-54-3 | n-Hexane | ND | 0.74 | ND | 0.21 | |
| 67-66-3 | Chloroform | 2.2 | 0.75 | 0.46 | 0.15 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 1.4 | ND | 0.47 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.72 | ND | 0.13 | |
| 71-43-2 | Benzene | ND | 0.70 | ND | 0.22 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.70 | ND | 0.11 | |
| 110-82-7 | Cyclohexane | ND | 1.5 | ND | 0.44 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.70 | ND | 0.15 | |
| 75-27-4 | Bromodichloromethane | ND | 0.74 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 0.99 | 0.72 | 0.18 | 0.13 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.72 | ND | 0.20 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.5 | ND | 0.37 | |
| 142-82-5 | n-Heptane | ND | 0.74 | ND | 0.18 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.70 | ND | 0.15 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.5 | ND | 0.37 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.71 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.72 | ND | 0.13 | |
| 108-88-3 | Toluene | ND | 0.72 | ND | 0.19 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.37 | |
| 124-48-1 | Dibromochloromethane | ND | 0.74 | ND | 0.087 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.72 | ND | 0.094 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.32 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: NV5
Client Sample ID: STACK-032122
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P2201332-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC01785

Date Collected: 3/21/22
 Date Received: 3/25/22
 Date Analyzed: 4/7 - 4/8/22
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.39

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.74 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | 200 | 7.2 | 30 | 1.1 | D |
| 108-90-7 | Chlorobenzene | ND | 0.72 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | ND | 0.72 | ND | 0.17 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.72 | ND | 0.070 | |
| 100-42-5 | Styrene | ND | 0.70 | ND | 0.16 | |
| 95-47-6 | o-Xylene | ND | 0.72 | ND | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.72 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.72 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.72 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | ND | 0.75 | ND | 0.13 | |
| 103-65-1 | n-Propylbenzene | ND | 0.74 | ND | 0.15 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.74 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.72 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.72 | ND | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.30 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.72 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.72 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.70 | ND | 0.12 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.4 | ND | 0.14 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.5 | ND | 0.21 | |
| 91-20-3 | Naphthalene | ND | 0.72 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.72 | ND | 0.068 | V |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NV5
Client Sample ID: Method Blank
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220406-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/6/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.52 | ND | 0.30 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.53 | ND | 0.11 | |
| 74-87-3 | Chloromethane | ND | 0.51 | ND | 0.25 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.54 | ND | 0.077 | |
| 75-01-4 | Vinyl Chloride | ND | 0.52 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.52 | ND | 0.24 | |
| 74-83-9 | Bromomethane | ND | 0.51 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.51 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 1.0 | ND | 0.60 | |
| 107-02-8 | Acrolein | ND | 1.0 | ND | 0.44 | |
| 67-64-1 | Acetone | ND | 5.2 | ND | 2.2 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | ND | 0.52 | ND | 0.093 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 1.0 | ND | 0.41 | |
| 107-13-1 | Acrylonitrile | ND | 1.0 | ND | 0.46 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.54 | ND | 0.14 | |
| 75-09-2 | Methylene Chloride | ND | 0.52 | ND | 0.15 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.53 | ND | 0.17 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.54 | ND | 0.070 | |
| 75-15-0 | Carbon Disulfide | ND | 1.1 | ND | 0.35 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.53 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.53 | ND | 0.13 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.53 | ND | 0.15 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1.0 | ND | 0.34 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: NV5
Client Sample ID: Method Blank
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220406-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/6/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.52 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 2.1 | ND | 0.58 | |
| 110-54-3 | n-Hexane | ND | 0.53 | ND | 0.15 | |
| 67-66-3 | Chloroform | ND | 0.54 | ND | 0.11 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 1.0 | ND | 0.34 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.53 | ND | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.50 | ND | 0.080 | |
| 110-82-7 | Cyclohexane | ND | 1.1 | ND | 0.32 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.53 | ND | 0.079 | |
| 79-01-6 | Trichloroethene | ND | 0.52 | ND | 0.097 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.52 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.1 | ND | 0.27 | |
| 142-82-5 | n-Heptane | ND | 0.53 | ND | 0.13 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.1 | ND | 0.27 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.51 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 108-88-3 | Toluene | ND | 0.52 | ND | 0.14 | |
| 591-78-6 | 2-Hexanone | ND | 1.1 | ND | 0.27 | |
| 124-48-1 | Dibromochloromethane | ND | 0.53 | ND | 0.062 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.52 | ND | 0.068 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.1 | ND | 0.23 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: NV5
Client Sample ID: Method Blank
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220406-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/6/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.53 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.52 | ND | 0.077 | |
| 108-90-7 | Chlorobenzene | ND | 0.52 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.52 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.1 | ND | 0.25 | |
| 75-25-2 | Bromoform | ND | 0.52 | ND | 0.050 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.52 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.52 | ND | 0.099 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.52 | ND | 0.076 | |
| 98-82-8 | Cumene | ND | 0.52 | ND | 0.11 | |
| 80-56-8 | alpha-Pinene | ND | 0.54 | ND | 0.097 | |
| 103-65-1 | n-Propylbenzene | ND | 0.53 | ND | 0.11 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.53 | ND | 0.11 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 100-44-7 | Benzyl Chloride | ND | 1.1 | ND | 0.21 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | ND | 0.10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.1 | ND | 0.15 | |
| 91-20-3 | Naphthalene | ND | 0.52 | ND | 0.099 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.52 | ND | 0.049 | V |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NV5
Client Sample ID: Method Blank
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220407-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/7/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result | MRL | Result | MRL | Data Qualifier |
|-----------|--|-------------------|-------------------|--------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.52 | ND | 0.30 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.53 | ND | 0.11 | |
| 74-87-3 | Chloromethane | ND | 0.51 | ND | 0.25 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.54 | ND | 0.077 | |
| 75-01-4 | Vinyl Chloride | ND | 0.52 | ND | 0.20 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.52 | ND | 0.24 | |
| 74-83-9 | Bromomethane | ND | 0.51 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.51 | ND | 0.19 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 1.0 | ND | 0.60 | |
| 107-02-8 | Acrolein | ND | 1.0 | ND | 0.44 | |
| 67-64-1 | Acetone | ND | 5.2 | ND | 2.2 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | ND | 0.52 | ND | 0.093 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 1.0 | ND | 0.41 | |
| 107-13-1 | Acrylonitrile | ND | 1.0 | ND | 0.46 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.54 | ND | 0.14 | |
| 75-09-2 | Methylene Chloride | ND | 0.52 | ND | 0.15 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.53 | ND | 0.17 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.54 | ND | 0.070 | |
| 75-15-0 | Carbon Disulfide | ND | 1.1 | ND | 0.35 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.53 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.53 | ND | 0.13 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.53 | ND | 0.15 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1.0 | ND | 0.34 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: NV5
Client Sample ID: Method Blank
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220407-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/7/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.52 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 2.1 | ND | 0.58 | |
| 110-54-3 | n-Hexane | ND | 0.53 | ND | 0.15 | |
| 67-66-3 | Chloroform | ND | 0.54 | ND | 0.11 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 1.0 | ND | 0.34 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.53 | ND | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 71-43-2 | Benzene | ND | 0.50 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.50 | ND | 0.080 | |
| 110-82-7 | Cyclohexane | ND | 1.1 | ND | 0.32 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.53 | ND | 0.079 | |
| 79-01-6 | Trichloroethene | ND | 0.52 | ND | 0.097 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.52 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.1 | ND | 0.27 | |
| 142-82-5 | n-Heptane | ND | 0.53 | ND | 0.13 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | ND | 0.11 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.1 | ND | 0.27 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.51 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 108-88-3 | Toluene | ND | 0.52 | ND | 0.14 | |
| 591-78-6 | 2-Hexanone | ND | 1.1 | ND | 0.27 | |
| 124-48-1 | Dibromochloromethane | ND | 0.53 | ND | 0.062 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.52 | ND | 0.068 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.1 | ND | 0.23 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: NV5
Client Sample ID: Method Blank
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220407-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/7/22
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.53 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.52 | ND | 0.077 | |
| 108-90-7 | Chlorobenzene | ND | 0.52 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.52 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.1 | ND | 0.25 | |
| 75-25-2 | Bromoform | ND | 0.52 | ND | 0.050 | |
| 100-42-5 | Styrene | ND | 0.50 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.52 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.52 | ND | 0.099 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.52 | ND | 0.076 | |
| 98-82-8 | Cumene | ND | 0.52 | ND | 0.11 | |
| 80-56-8 | alpha-Pinene | ND | 0.54 | ND | 0.097 | |
| 103-65-1 | n-Propylbenzene | ND | 0.53 | ND | 0.11 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.53 | ND | 0.11 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 100-44-7 | Benzyl Chloride | ND | 1.1 | ND | 0.21 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 5989-27-5 | d-Limonene | ND | 0.50 | ND | 0.090 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | ND | 0.10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.1 | ND | 0.15 | |
| 91-20-3 | Naphthalene | ND | 0.52 | ND | 0.099 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.52 | ND | 0.049 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: NV5
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 3/21/22
 Date(s) Received: 3/25/22
 Date(s) Analyzed: 4/6 - 4/7/22

| Client Sample ID | ALS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|------------------------------|---------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P220406-MB | 111 | 97 | 83 | 70-130 | |
| Method Blank | P220407-MB | 101 | 104 | 102 | 70-130 | |
| Lab Control Sample | P220406-LCS | 109 | 92 | 84 | 70-130 | |
| Lab Control Sample | P220407-LCS | 97 | 101 | 101 | 70-130 | |
| Duplicate Lab Control Sample | P220406-DLCS | 110 | 93 | 84 | 70-130 | |
| Duplicate Lab Control Sample | P220407-DLCS | 97 | 101 | 102 | 70-130 | |
| STACK-032122 | P2201332-001 | 113 | 90 | 81 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220406-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/6/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | % Recovery | | ALS | | Data Qualifier |
|-----------|--|---------------------------------|--------------------------|---------------------------|-----|------------|-------------------|-----|-----------|----------------|
| | | LCS / DLCS µg/m ³ | LCS µg/m ³ | DLCS µg/m ³ | LCS | DLCS | Acceptance Limits | RPD | RPD Limit | |
| 115-07-1 | Propene | 206 | 194 | 202 | 94 | 98 | 56-128 | 4 | 25 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 208 | 187 | 192 | 90 | 92 | 71-112 | 2 | 25 | |
| 74-87-3 | Chloromethane | 206 | 198 | 212 | 96 | 103 | 53-126 | 7 | 25 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 208 | 179 | 187 | 86 | 90 | 62-121 | 5 | 25 | |
| 75-01-4 | Vinyl Chloride | 208 | 205 | 210 | 99 | 101 | 63-123 | 2 | 25 | |
| 106-99-0 | 1,3-Butadiene | 206 | 210 | 215 | 102 | 104 | 63-135 | 2 | 25 | |
| 74-83-9 | Bromomethane | 206 | 197 | 202 | 96 | 98 | 71-112 | 2 | 25 | |
| 75-00-3 | Chloroethane | 206 | 195 | 202 | 95 | 98 | 66-117 | 3 | 25 | |
| 64-17-5 | Ethanol | 832 | 939 | 944 | 113 | 113 | 57-117 | 0 | 25 | |
| 75-05-8 | Acetonitrile | 202 | 190 | 190 | 94 | 94 | 59-131 | 0 | 25 | |
| 107-02-8 | Acrolein | 416 | 427 | 425 | 103 | 102 | 71-123 | 1 | 25 | |
| 67-64-1 | Acetone | 1,020 | 1020 | 1010 | 100 | 99 | 60-117 | 1 | 25 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 202 | 189 | 191 | 94 | 95 | 71-114 | 1 | 25 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 400 | 450 | 449 | 113 | 112 | 61-124 | 0.9 | 25 | |
| 107-13-1 | Acrylonitrile | 402 | 421 | 421 | 105 | 105 | 65-130 | 0 | 25 | |
| 75-35-4 | 1,1-Dichloroethene | 210 | 210 | 210 | 100 | 100 | 74-114 | 0 | 25 | |
| 75-09-2 | Methylene Chloride | 208 | 197 | 196 | 95 | 94 | 75-112 | 1 | 25 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 204 | 206 | 206 | 101 | 101 | 57-127 | 0 | 25 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | 216 | 184 | 185 | 85 | 86 | 73-114 | 1 | 25 | |
| 75-15-0 | Carbon Disulfide | 414 | 404 | 397 | 98 | 96 | 70-113 | 2 | 25 | |
| 156-60-5 | trans-1,2-Dichloroethene | 208 | 218 | 218 | 105 | 105 | 76-119 | 0 | 25 | |
| 75-34-3 | 1,1-Dichloroethane | 214 | 206 | 206 | 96 | 96 | 70-114 | 0 | 25 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 206 | 204 | 195 | 99 | 95 | 72-118 | 4 | 25 | |
| 108-05-4 | Vinyl Acetate | 942 | 1130 | 1130 | 120 | 120 | 56-137 | 0 | 25 | |
| 78-93-3 | 2-Butanone (MEK) | 408 | 441 | 434 | 108 | 106 | 74-121 | 2 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220406-DLCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Simon Cao
Sample Type: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 4/6/22
Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | % Recovery | | ALS | | Data Qualifier |
|------------|---------------------------|---------------------------------|--------------------------|---------------------------|-----|------------|-------------------|-----|-----------|----------------|
| | | LCS / DLCS µg/m ³ | LCS µg/m ³ | DLCS µg/m ³ | LCS | DLCS | Acceptance Limits | RPD | RPD Limit | |
| 156-59-2 | cis-1,2-Dichloroethene | 206 | 206 | 206 | 100 | 100 | 73-117 | 0 | 25 | |
| 141-78-6 | Ethyl Acetate | 580 | 635 | 619 | 109 | 107 | 59-161 | 2 | 25 | |
| 110-54-3 | n-Hexane | 208 | 228 | 222 | 110 | 107 | 55-130 | 3 | 25 | |
| 67-66-3 | Chloroform | 210 | 209 | 206 | 100 | 98 | 71-114 | 2 | 25 | |
| 109-99-9 | Tetrahydrofuran (THF) | 404 | 435 | 430 | 108 | 106 | 73-114 | 2 | 25 | |
| 107-06-2 | 1,2-Dichloroethane | 210 | 206 | 206 | 98 | 98 | 71-119 | 0 | 25 | |
| 71-55-6 | 1,1,1-Trichloroethane | 208 | 199 | 199 | 96 | 96 | 73-119 | 0 | 25 | |
| 71-43-2 | Benzene | 208 | 195 | 193 | 94 | 93 | 72-113 | 1 | 25 | |
| 56-23-5 | Carbon Tetrachloride | 202 | 188 | 187 | 93 | 93 | 67-123 | 0 | 25 | |
| 110-82-7 | Cyclohexane | 412 | 401 | 396 | 97 | 96 | 70-119 | 1 | 25 | |
| 78-87-5 | 1,2-Dichloropropane | 206 | 207 | 203 | 100 | 99 | 70-118 | 1 | 25 | |
| 75-27-4 | Bromodichloromethane | 208 | 210 | 209 | 101 | 100 | 74-119 | 1 | 25 | |
| 79-01-6 | Trichloroethene | 204 | 189 | 186 | 93 | 91 | 74-115 | 2 | 25 | |
| 123-91-1 | 1,4-Dioxane | 206 | 210 | 209 | 102 | 101 | 77-124 | 1 | 25 | |
| 80-62-6 | Methyl Methacrylate | 410 | 418 | 411 | 102 | 100 | 78-126 | 2 | 25 | |
| 142-82-5 | n-Heptane | 206 | 208 | 206 | 101 | 100 | 70-119 | 1 | 25 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 208 | 218 | 215 | 105 | 103 | 81-126 | 2 | 25 | |
| 108-10-1 | 4-Methyl-2-pentanone | 412 | 444 | 438 | 108 | 106 | 73-129 | 2 | 25 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 200 | 214 | 212 | 107 | 106 | 80-127 | 0.9 | 25 | |
| 79-00-5 | 1,1,2-Trichloroethane | 208 | 200 | 197 | 96 | 95 | 78-117 | 1 | 25 | |
| 108-88-3 | Toluene | 206 | 171 | 171 | 83 | 83 | 70-118 | 0 | 25 | |
| 591-78-6 | 2-Hexanone | 406 | 408 | 406 | 100 | 100 | 74-132 | 0 | 25 | |
| 124-48-1 | Dibromochloromethane | 210 | 180 | 181 | 86 | 86 | 69-137 | 0 | 25 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 177 | 176 | 85 | 85 | 76-128 | 0 | 25 | |
| 123-86-4 | n-Butyl Acetate | 406 | 415 | 413 | 102 | 102 | 75-134 | 0 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220406-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/6/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | % Recovery | | ALS | | Data Qualifier |
|-------------|-----------------------------|---------------------------------|--------------------------|---------------------------|-----|------------|-------------------|-----|-----------|----------------|
| | | LCS / DLCS µg/m ³ | LCS µg/m ³ | DLCS µg/m ³ | LCS | DLCS | Acceptance Limits | RPD | RPD Limit | |
| 111-65-9 | n-Octane | 208 | 194 | 191 | 93 | 92 | 68-120 | 1 | 25 | |
| 127-18-4 | Tetrachloroethene | 212 | 156 | 157 | 74 | 74 | 63-130 | 0 | 25 | |
| 108-90-7 | Chlorobenzene | 206 | 163 | 163 | 79 | 79 | 70-118 | 0 | 25 | |
| 100-41-4 | Ethylbenzene | 206 | 180 | 179 | 87 | 87 | 71-123 | 0 | 25 | |
| 179601-23-1 | m,p-Xylenes | 416 | 368 | 365 | 88 | 88 | 67-127 | 0 | 25 | |
| 75-25-2 | Bromoform | 210 | 176 | 177 | 84 | 84 | 65-149 | 0 | 25 | |
| 100-42-5 | Styrene | 202 | 176 | 176 | 87 | 87 | 76-132 | 0 | 25 | |
| 95-47-6 | o-Xylene | 208 | 187 | 186 | 90 | 89 | 69-124 | 1 | 25 | |
| 111-84-2 | n-Nonane | 208 | 205 | 203 | 99 | 98 | 64-127 | 1 | 25 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 208 | 188 | 187 | 90 | 90 | 69-128 | 0 | 25 | |
| 98-82-8 | Cumene | 206 | 176 | 175 | 85 | 85 | 69-125 | 0 | 25 | |
| 80-56-8 | alpha-Pinene | 210 | 199 | 199 | 95 | 95 | 68-129 | 0 | 25 | |
| 103-65-1 | n-Propylbenzene | 208 | 181 | 181 | 87 | 87 | 70-127 | 0 | 25 | |
| 622-96-8 | 4-Ethyltoluene | 208 | 182 | 183 | 88 | 88 | 69-127 | 0 | 25 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 184 | 183 | 88 | 88 | 66-129 | 0 | 25 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 206 | 199 | 197 | 97 | 96 | 63-142 | 1 | 25 | |
| 100-44-7 | Benzyl Chloride | 416 | 373 | 377 | 90 | 91 | 73-145 | 1 | 25 | |
| 541-73-1 | 1,3-Dichlorobenzene | 208 | 163 | 163 | 78 | 78 | 67-136 | 0 | 25 | |
| 106-46-7 | 1,4-Dichlorobenzene | 210 | 150 | 151 | 71 | 72 | 63-134 | 1 | 25 | |
| 95-50-1 | 1,2-Dichlorobenzene | 210 | 167 | 164 | 80 | 78 | 64-139 | 3 | 25 | |
| 5989-27-5 | d-Limonene | 206 | 220 | 217 | 107 | 105 | 63-137 | 2 | 25 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 404 | 338 | 339 | 84 | 84 | 72-145 | 0 | 25 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 420 | 276 | 278 | 66 | 66 | 62-154 | 0 | 25 | |
| 91-20-3 | Naphthalene | 210 | 131 | 132 | 62 | 63 | 62-156 | 2 | 25 | |
| 87-68-3 | Hexachlorobutadiene | 212 | 144 | 146 | 68 | 69 | 55-142 | 1 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220407-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/7/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | % Recovery | | ALS | | Data Qualifier |
|-----------|--|---------------------------------|--------------------------|---------------------------|-----|------------|-------------------|-----|-----------|----------------|
| | | LCS / DLCS µg/m ³ | LCS µg/m ³ | DLCS µg/m ³ | LCS | DLCS | Acceptance Limits | RPD | RPD Limit | |
| 115-07-1 | Propene | 206 | 177 | 172 | 86 | 83 | 56-128 | 4 | 25 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 208 | 184 | 181 | 88 | 87 | 71-112 | 1 | 25 | |
| 74-87-3 | Chloromethane | 206 | 191 | 192 | 93 | 93 | 53-126 | 0 | 25 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 208 | 195 | 193 | 94 | 93 | 62-121 | 1 | 25 | |
| 75-01-4 | Vinyl Chloride | 208 | 193 | 191 | 93 | 92 | 63-123 | 1 | 25 | |
| 106-99-0 | 1,3-Butadiene | 206 | 199 | 197 | 97 | 96 | 63-135 | 1 | 25 | |
| 74-83-9 | Bromomethane | 206 | 196 | 193 | 95 | 94 | 71-112 | 1 | 25 | |
| 75-00-3 | Chloroethane | 206 | 189 | 186 | 92 | 90 | 66-117 | 2 | 25 | |
| 64-17-5 | Ethanol | 832 | 736 | 732 | 88 | 88 | 57-117 | 0 | 25 | |
| 75-05-8 | Acetonitrile | 202 | 160 | 158 | 79 | 78 | 59-131 | 1 | 25 | |
| 107-02-8 | Acrolein | 416 | 374 | 372 | 90 | 89 | 71-123 | 1 | 25 | |
| 67-64-1 | Acetone | 1,020 | 891 | 885 | 87 | 87 | 60-117 | 0 | 25 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 202 | 182 | 179 | 90 | 89 | 71-114 | 1 | 25 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 400 | 382 | 382 | 96 | 96 | 61-124 | 0 | 25 | |
| 107-13-1 | Acrylonitrile | 402 | 368 | 365 | 92 | 91 | 65-130 | 1 | 25 | |
| 75-35-4 | 1,1-Dichloroethene | 210 | 198 | 196 | 94 | 93 | 74-114 | 1 | 25 | |
| 75-09-2 | Methylene Chloride | 208 | 188 | 186 | 90 | 89 | 75-112 | 1 | 25 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 204 | 176 | 176 | 86 | 86 | 57-127 | 0 | 25 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | 216 | 197 | 195 | 91 | 90 | 73-114 | 1 | 25 | |
| 75-15-0 | Carbon Disulfide | 414 | 398 | 394 | 96 | 95 | 70-113 | 1 | 25 | |
| 156-60-5 | trans-1,2-Dichloroethene | 208 | 198 | 196 | 95 | 94 | 76-119 | 1 | 25 | |
| 75-34-3 | 1,1-Dichloroethane | 214 | 193 | 190 | 90 | 89 | 70-114 | 1 | 25 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 206 | 178 | 187 | 86 | 91 | 72-118 | 6 | 25 | |
| 108-05-4 | Vinyl Acetate | 942 | 1150 | 1140 | 122 | 121 | 56-137 | 0.8 | 25 | |
| 78-93-3 | 2-Butanone (MEK) | 408 | 396 | 390 | 97 | 96 | 74-121 | 1 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220407-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/7/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | % Recovery | | ALS | | Data Qualifier |
|------------|---------------------------|---------------------------------|--------------------------|---------------------------|-----|------------|-------------------|-----|-----------|----------------|
| | | LCS / DLCS µg/m ³ | LCS µg/m ³ | DLCS µg/m ³ | LCS | DLCS | Acceptance Limits | RPD | RPD Limit | |
| 156-59-2 | cis-1,2-Dichloroethene | 206 | 191 | 187 | 93 | 91 | 73-117 | 2 | 25 | |
| 141-78-6 | Ethyl Acetate | 580 | 554 | 548 | 96 | 94 | 59-161 | 2 | 25 | |
| 110-54-3 | n-Hexane | 208 | 199 | 195 | 96 | 94 | 55-130 | 2 | 25 | |
| 67-66-3 | Chloroform | 210 | 193 | 190 | 92 | 90 | 71-114 | 2 | 25 | |
| 109-99-9 | Tetrahydrofuran (THF) | 404 | 383 | 378 | 95 | 94 | 73-114 | 1 | 25 | |
| 107-06-2 | 1,2-Dichloroethane | 210 | 191 | 188 | 91 | 90 | 71-119 | 1 | 25 | |
| 71-55-6 | 1,1,1-Trichloroethane | 208 | 195 | 194 | 94 | 93 | 73-119 | 1 | 25 | |
| 71-43-2 | Benzene | 208 | 190 | 188 | 91 | 90 | 72-113 | 1 | 25 | |
| 56-23-5 | Carbon Tetrachloride | 202 | 195 | 194 | 97 | 96 | 67-123 | 1 | 25 | |
| 110-82-7 | Cyclohexane | 412 | 387 | 382 | 94 | 93 | 70-119 | 1 | 25 | |
| 78-87-5 | 1,2-Dichloropropane | 206 | 187 | 187 | 91 | 91 | 70-118 | 0 | 25 | |
| 75-27-4 | Bromodichloromethane | 208 | 204 | 199 | 98 | 96 | 74-119 | 2 | 25 | |
| 79-01-6 | Trichloroethene | 204 | 193 | 190 | 95 | 93 | 74-115 | 2 | 25 | |
| 123-91-1 | 1,4-Dioxane | 206 | 203 | 200 | 99 | 97 | 77-124 | 2 | 25 | |
| 80-62-6 | Methyl Methacrylate | 410 | 422 | 414 | 103 | 101 | 78-126 | 2 | 25 | |
| 142-82-5 | n-Heptane | 206 | 195 | 193 | 95 | 94 | 70-119 | 1 | 25 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 208 | 210 | 209 | 101 | 100 | 81-126 | 1 | 25 | |
| 108-10-1 | 4-Methyl-2-pentanone | 412 | 405 | 399 | 98 | 97 | 73-129 | 1 | 25 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 200 | 203 | 201 | 102 | 101 | 80-127 | 1 | 25 | |
| 79-00-5 | 1,1,2-Trichloroethane | 208 | 192 | 189 | 92 | 91 | 78-117 | 1 | 25 | |
| 108-88-3 | Toluene | 206 | 191 | 186 | 93 | 90 | 70-118 | 3 | 25 | |
| 591-78-6 | 2-Hexanone | 406 | 401 | 390 | 99 | 96 | 74-132 | 3 | 25 | |
| 124-48-1 | Dibromochloromethane | 210 | 209 | 204 | 100 | 97 | 69-137 | 3 | 25 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 199 | 193 | 96 | 93 | 76-128 | 3 | 25 | |
| 123-86-4 | n-Butyl Acetate | 406 | 412 | 401 | 101 | 99 | 75-134 | 2 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P220407-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 4/7/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | % Recovery | | ALS | | Data Qualifier |
|-------------|-----------------------------|---------------------------------|--------------------------|---------------------------|-----|------------|-------------------|-----------|----|----------------|
| | | LCS / DLCS µg/m ³ | LCS µg/m ³ | DLCS µg/m ³ | LCS | DLCS | Acceptance Limits | RPD Limit | | |
| 111-65-9 | n-Octane | 208 | 195 | 189 | 94 | 91 | 68-120 | 3 | 25 | |
| 127-18-4 | Tetrachloroethene | 212 | 201 | 196 | 95 | 92 | 63-130 | 3 | 25 | |
| 108-90-7 | Chlorobenzene | 206 | 190 | 185 | 92 | 90 | 70-118 | 2 | 25 | |
| 100-41-4 | Ethylbenzene | 206 | 198 | 193 | 96 | 94 | 71-123 | 2 | 25 | |
| 179601-23-1 | m,p-Xylenes | 416 | 401 | 389 | 96 | 94 | 67-127 | 2 | 25 | |
| 75-25-2 | Bromoform | 210 | 217 | 211 | 103 | 100 | 65-149 | 3 | 25 | |
| 100-42-5 | Styrene | 202 | 201 | 197 | 100 | 98 | 76-132 | 2 | 25 | |
| 95-47-6 | o-Xylene | 208 | 201 | 196 | 97 | 94 | 69-124 | 3 | 25 | |
| 111-84-2 | n-Nonane | 208 | 198 | 192 | 95 | 92 | 64-127 | 3 | 25 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 208 | 200 | 196 | 96 | 94 | 69-128 | 2 | 25 | |
| 98-82-8 | Cumene | 206 | 197 | 191 | 96 | 93 | 69-125 | 3 | 25 | |
| 80-56-8 | alpha-Pinene | 210 | 215 | 211 | 102 | 100 | 68-129 | 2 | 25 | |
| 103-65-1 | n-Propylbenzene | 208 | 200 | 194 | 96 | 93 | 70-127 | 3 | 25 | |
| 622-96-8 | 4-Ethyltoluene | 208 | 203 | 198 | 98 | 95 | 69-127 | 3 | 25 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 206 | 201 | 99 | 97 | 66-129 | 2 | 25 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 206 | 213 | 207 | 103 | 100 | 63-142 | 3 | 25 | |
| 100-44-7 | Benzyl Chloride | 416 | 423 | 418 | 102 | 100 | 73-145 | 2 | 25 | |
| 541-73-1 | 1,3-Dichlorobenzene | 208 | 197 | 191 | 95 | 92 | 67-136 | 3 | 25 | |
| 106-46-7 | 1,4-Dichlorobenzene | 210 | 185 | 181 | 88 | 86 | 63-134 | 2 | 25 | |
| 95-50-1 | 1,2-Dichlorobenzene | 210 | 196 | 191 | 93 | 91 | 64-139 | 2 | 25 | |
| 5989-27-5 | d-Limonene | 206 | 229 | 223 | 111 | 108 | 63-137 | 3 | 25 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 404 | 402 | 401 | 100 | 99 | 72-145 | 1 | 25 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 420 | 342 | 348 | 81 | 83 | 62-154 | 2 | 25 | |
| 91-20-3 | Naphthalene | 210 | 155 | 163 | 74 | 78 | 62-156 | 5 | 25 | |
| 87-68-3 | Hexachlorobutadiene | 212 | 190 | 189 | 90 | 89 | 55-142 | 1 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



LABORATORY REPORT

June 17, 2022

Matt Dahl
NV5
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

RE: MVSC / 1358.001.02.015

Dear Matt:

Enclosed are the results of the samples submitted to our laboratory on June 6, 2022. For your reference, these analyses have been assigned our service request number P2202495.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental


By Sue Anderson at 12:55 pm, Jun 17, 2022

Sue Anderson
Project Manager



Client: NV5
Project: MVSC / 1358.001.02.015

Service Request No: P2202495

CASE NARRATIVE

The samples were received intact under chain of custody on June 6, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for tetrachloroethene in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

| Agency | Web Site | Number |
|---|---|----------------------------|
| Alaska DEC | http://dec.alaska.gov/eh/lab.aspx | 17-019 |
| Arizona DHS | http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home | AZ0694 |
| Florida DOH (NELAP) | http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html | E871020 |
| Louisiana DEQ (NELAP) | http://www.deq.louisiana.gov/page/la-lab-accreditation | 05071 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml | 2018027 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 1776326 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/enforcement/oqa.html | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | 4068-008 |
| Pennsylvania DEP | http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx | 68-03307 (Registration) |
| PJLA (DoD ELAP) | http://www.pjlabs.com/search-accredited-labs | 65818 (Testing) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html | T104704413- 19-10 |
| Utah DOH (NELAP) | http://health.utah.gov/lab/lab_cert_env | CA016272019 -10 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |
| <p>Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.</p> <p>Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.</p> | | |

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: NV5
 Project ID: MVSC / 1358.001.02.015

Service Request: P2202495

Date Received: 6/6/2022
 Time Received: 10:23

TO-15 - VOC Cans

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Container ID | Pi1 (psig) | Pf1 (psig) | 2nd Pi (psig) | 2nd Pf (psig) | TO-15 - VOC Cans |
|------------------|--------------|--------|----------------|----------------|--------------|------------|------------|---------------|---------------|------------------|
| SVE-8-060222 | P2202495-001 | Air | 6/2/2022 | 14:45 | 1SC01211 | -1.22 | 6.85 | | | X |
| SVE-12A-060222 | P2202495-002 | Air | 6/2/2022 | 13:16 | 1SS00895 | -1.22 | 6.43 | | | X |
| STACK-060222 | P2202495-003 | Air | 6/2/2022 | 14:55 | 1SC00688 | -1.97 | 6.42 | | | X |
| SVE-22-060222 | P2202495-004 | Air | 6/2/2022 | 13:55 | 1SS00186 | -1.87 | 6.68 | | | X |
| SVE-6-060222 | P2202495-005 | Air | 6/2/2022 | 14:25 | 1SS01485 | -0.58 | 7.21 | | | X |
| SVE-20-060222 | P2202495-006 | Air | 6/2/2022 | 14:18 | 1SS01463 | -2.18 | 7.04 | | | X |
| SVE-24-060222 | P2202495-007 | Air | 6/2/2022 | 13:30 | 1SS01448 | -1.63 | 6.22 | | | X |
| SVE-23-060222 | P2202495-008 | Air | 6/2/2022 | 13:35 | 1SS01399 | -1.66 | 6.14 | | | X |
| SVE-10-060222 | P2202495-009 | Air | 6/2/2022 | 13:42 | 1SS01232 | -1.44 | 6.39 | | | X |
| SVE-7-060222 | P2202495-010 | Air | 6/2/2022 | 14:06 | 1SS01176 | -0.91 | 6.13 | | | X |
| SVE-5-060222 | P2202495-011 | Air | 6/2/2022 | 14:35 | 1SS01450 | -2.61 | 6.58 | 1.24 | 6.28 | X |
| SVE-21-060222 | P2202495-012 | Air | 6/2/2022 | 14:12 | 1SS01409 | -1.58 | 6.18 | | | X |
| SVE-25-A60222 | P2202495-013 | Air | 6/2/2022 | 13:26 | 1SS01497 | -1.00 | 6.95 | | | X |
| SVE-11A-060222 | P2202495-014 | Air | 6/2/2022 | 13:10 | 1SS00689 | -0.35 | 6.97 | | | X |



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

P2202495

ALS Project No.

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 6+ Day-Standard

| | | | | | | | | | |
|---|----------------------|--|----------------|--|--|-----------------------------|---------------------------------|---------------|-------|
| Company Name & Address (Reporting Information) PES ENVIRONMENTAL, AN NVS COMPANY 21014TH AVE, SEATTLE, WA 98121 | | Project Name MVSC | | ALS Contact: | | | | | |
| Project Manager M. DAHL | | Project Number 1326 1358 001.02.015 | | Analysis Method PCE by TO-15 | | | | | |
| Phone 206 529 3980 | | P.O. # / Billing Information CONTACT PM | | Comments e.g. Actual Preservative or specific instructions PCE Analysis ONLY | | | | | |
| Email Address for Result Reporting MATT.DAHL@NVS.COM | | Sampler (Print & Sign) R. McLaughlin | | | | | | | |
| Client Sample ID | Laboratory ID Number | Date Collected | Time Collected | Canister ID (Bar code # - AC, SC, etc.) | Flow Controller ID (Bar code # - FC #) | Canister Start Pressure "Hg | Caplister End Pressure "Hg/psig | Sample Volume | |
| SVE-8-060222 | 1 | 6/2/22 | 1445 | ISS01211 | | -28 | -2.5 | 1L | TO-15 |
| SVE-12A-060222 | 2 | | 1316 | ISS00895 | | -24 | -4 | | |
| STACK-060222 | 3 | | 1455 | ISS00688 | | -27.5 | -4 | | |
| SVE-22-060222 | 4 | | 1355 | ISS00186 | | -28 | -4 | | |
| SVE-6-060222 | 5 | | 1425 | ISS01485 | | -28.5 | -2.5 | | |
| SVE-20-060222 | 6 | | 1418 | ISS01463 | | -30 | -4 | | |
| SVE-24-060222 | 7 | | 1330 | ISS01448 | | -30 | -2 | | |
| SVE-23-060222 | 8 | | 1335 | ISS01399 | | -30 | -3.5 | | |
| SVE-10-060222 | 9 | | 1342 | ISS01232 | | -27.5 | -2 | | |
| SVE-7-060222 | 10 | | 1406 | ISS01176 | | -25.5 | -2 | | |
| SVE-5-060222 | 11 | | 1435 | ISS01450 | | -30 | -6 | | |
| SVE-21-060222 | 12 | | 1412 | ISS01409 | | -27 | -3 | | |
| SVE-25-060222 | 13 | 6/2/22 | 1326 | ISS01497 | | -30 | -2 | 1L | TO-15 |
| SVE-11A-060222 | 14 | 6/2/22 | 1310 | ISS00689 | | -27 | -2 | 1L | TO-15 |

Report Tier Levels - please select

Tier I - Results (Default if not specified) _____
Tier II (Results + QC Summaries) _____
Tier III (Results + QC & Calibration Summaries) _____
Tier IV (Data Validation Package) 10% Surcharge _____

EDD required Yes / No _____
Type: _____ Units: _____

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Relinquished by: (Signature) *[Signature]*
Date: 6/3/22 Time: 1000

Received by: (Signature) *[Signature]*
Date: 6/10/23 Time: 1023

Relinquished by: (Signature) _____
Date: _____ Time: _____

Project Requirements (MRLs, QAPP)

Cooler / Blank Temperature

**ALS Environmental
Sample Acceptance Check Form**

Client: NV5

Work order: P2202495

Project: MVSC / 1358.001.02.015

Sample(s) received on: 6/6/22

Date opened: 6/6/22

by: KYLE.WOODIN

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|-----------------|--------------------------------|---------------|-------------|-------------|-------------------------------------|------------------------------------|
| P2202495-001.01 | 1.0 L Source Can | | | | | |
| P2202495-002.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-003.01 | 1.0 L Source Can | | | | | |
| P2202495-004.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-005.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-006.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-007.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-008.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-009.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-010.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-011.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-012.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-013.01 | 1.0 L Source Silonite Canister | | | | | |
| P2202495-014.01 | 1.0 L Source Silonite Canister | | | | | |

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: NV5
Client Project ID: MVSC / 1358.001.02.015

ALS Project ID: P2202495

Tetrachloroethene

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)
Test Notes:

Date(s) Collected: 6/2/22
Date Received: 6/6/22
Date Analyzed: 6/13 - 6/14/22

| Client Sample ID | ALS Sample ID | Injection Volume Liter(s) | Canister Dilution Factor | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| SVE-8-060222 | P2202495-001 | 0.40 | 1.60 | 49 | 2.1 | 7.2 | 0.31 | |
| SVE-12A-060222 | P2202495-002 | 0.40 | 1.57 | 330 | 2.0 | 49 | 0.30 | |
| STACK-060222 | P2202495-003 | 0.40 | 1.66 | 140 | 2.2 | 21 | 0.32 | |
| SVE-22-060222 | P2202495-004 | 0.40 | 1.67 | 110 | 2.2 | 16 | 0.32 | |
| SVE-6-060222 | P2202495-005 | 0.40 | 1.55 | 340 | 2.0 | 50 | 0.30 | |
| SVE-20-060222 | P2202495-006 | 0.40 | 1.74 | 110 | 2.3 | 17 | 0.33 | |
| SVE-24-060222 | P2202495-007 | 0.40 | 1.60 | 46 | 2.1 | 6.7 | 0.31 | |
| SVE-23-060222 | P2202495-008 | 0.40 | 1.60 | 61 | 2.1 | 8.9 | 0.31 | |
| SVE-10-060222 | P2202495-009 | 0.40 | 1.59 | 72 | 2.1 | 11 | 0.30 | |
| SVE-7-060222 | P2202495-010 | 0.40 | 1.51 | 120 | 2.0 | 18 | 0.29 | |
| SVE-5-060222 | P2202495-011 | 0.040 | 2.32 | 660 | 30 | 97 | 4.4 | D |
| SVE-21-060222 | P2202495-012 | 0.40 | 1.59 | 200 | 2.1 | 30 | 0.30 | |
| SVE-25-A60222 | P2202495-013 | 0.40 | 1.58 | 36 | 2.1 | 5.3 | 0.30 | |
| SVE-11A-060222 | P2202495-014 | 0.40 | 1.51 | 74 | 2.0 | 11 | 0.29 | |
| Method Blank | P220613-MB | 1.00 | 1.00 | ND | 0.52 | ND | 0.077 | |
| Method Blank | P220614-MB | 1.00 | 1.00 | ND | 0.52 | ND | 0.077 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: NV5
Client Project ID: MVSC / 1358.001.02.015

ALS Project ID: P2202495

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 6/2/22
 Date(s) Received: 6/6/22
 Date(s) Analyzed: 6/13 - 6/14/22

| Client Sample ID | ALS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|------------------------------|---------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P220613-MB | 104 | 91 | 86 | 70-130 | |
| Method Blank | P220614-MB | 105 | 91 | 84 | 70-130 | |
| Lab Control Sample | P220613-LCS | 104 | 87 | 86 | 70-130 | |
| Lab Control Sample | P220614-LCS | 105 | 85 | 82 | 70-130 | |
| Duplicate Lab Control Sample | P220613-DLCS | 103 | 87 | 85 | 70-130 | |
| Duplicate Lab Control Sample | P220614-DLCS | 103 | 86 | 85 | 70-130 | |
| SVE-8-060222 | P2202495-001 | 103 | 92 | 86 | 70-130 | |
| SVE-12A-060222 | P2202495-002 | 103 | 91 | 86 | 70-130 | |
| STACK-060222 | P2202495-003 | 102 | 90 | 87 | 70-130 | |
| SVE-22-060222 | P2202495-004 | 104 | 89 | 87 | 70-130 | |
| SVE-6-060222 | P2202495-005 | 105 | 89 | 87 | 70-130 | |
| SVE-20-060222 | P2202495-006 | 105 | 89 | 87 | 70-130 | |
| SVE-24-060222 | P2202495-007 | 106 | 89 | 85 | 70-130 | |
| SVE-23-060222 | P2202495-008 | 106 | 92 | 86 | 70-130 | |
| SVE-10-060222 | P2202495-009 | 107 | 91 | 83 | 70-130 | |
| SVE-7-060222 | P2202495-010 | 107 | 92 | 82 | 70-130 | |
| SVE-5-060222 (Dilution) | P2202495-011 | 142 | 108 | 91 | 70-130 | S |
| SVE-21-060222 | P2202495-012 | 106 | 91 | 82 | 70-130 | |
| SVE-25-A60222 | P2202495-013 | 109 | 91 | 81 | 70-130 | |
| SVE-11A-060222 | P2202495-014 | 107 | 91 | 81 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

S = Surrogate recovery not within specified limits.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 1358.001.02.015

ALS Project ID: P2202495
 ALS Sample ID: P220613-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/13/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | ALS | | | |
|----------|-------------------|--------------------------|--------------------------|--------------------------|------------|------------|--------|-------|-----------|
| | | LCS / DLCS | LCS | DLCS | % Recovery | Acceptance | RPD | RPD | Data |
| | | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | LCS | DLCS | Limits | Limit | Qualifier |
| 127-18-4 | Tetrachloroethene | 212 | 176 | 182 | 83 | 86 | 63-130 | 4 | 25 |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 1358.001.02.015

ALS Project ID: P2202495
 ALS Sample ID: P220614-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Wida Ang
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/14/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | ALS | | | |
|----------|-------------------|--------------------------|--------------------------|--------------------------|------------|------------|--------|-------|-----------|
| | | LCS / DLCS | LCS | DLCS | % Recovery | Acceptance | RPD | RPD | Data |
| | | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | LCS | DLCS | Limits | Limit | Qualifier |
| 127-18-4 | Tetrachloroethene | 212 | 173 | 177 | 82 | 83 | 63-130 | 1 | 25 |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



LABORATORY REPORT

September 22, 2022

Matt Dahl
NV5
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

RE: MVSC / 443019-1358001.02-15

Dear Matt:

Enclosed are the results of the sample submitted to our laboratory on September 13, 2022. For your reference, this analysis has been assigned our service request number P2204041.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental

6:13 pm, Sep 22, 2022

Sue Anderson
Project Manager

ALS Environmental

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T +1 805 526 7161



right solutions.
right partner.

Client: NV5
Project: MVSC / 443019-1358001.02-15

Service Request No: P2204041

CASE NARRATIVE

The sample was received intact under chain of custody on September 13, 2022 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

Volatile Organic Compound Analysis

The sample was analyzed for Tetrachloroethene in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

| Agency | Web Site | Number |
|---|---|----------------------------|
| Alaska DEC | http://dec.alaska.gov/eh/lab.aspx | 17-019 |
| Arizona DHS | http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home | AZ0694 |
| Florida DOH (NELAP) | http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html | E871020 |
| Louisiana DEQ (NELAP) | http://www.deq.louisiana.gov/page/la-lab-accreditation | 05071 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml | 2018027 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 1776326 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/enforcement/oqa.html | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | 4068-008 |
| Pennsylvania DEP | http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx | 68-03307 (Registration) |
| PJLA (DoD ELAP) | http://www.pjlabs.com/search-accredited-labs | 65818 (Testing) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html | T104704413- 19-10 |
| Utah DOH (NELAP) | http://health.utah.gov/lab/lab_cert_env | CA016272019 -10 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |
| <p>Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.</p> <p>Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.</p> | | |

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

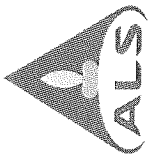
Client: NV5
Project ID: MVSC / 443019-1358001.02-15

Service Request: P2204041

Date Received: 9/13/2022
Time Received: 11:11

TO-15 - VOC Cans

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Container ID | Pi1 (psig) | Pf1 (psig) | |
|------------------|--------------|--------|----------------|----------------|--------------|------------|------------|---|
| STACK-090822 | P2204041-001 | Air | 9/8/2022 | 09:45 | 1SS01463 | 0.22 | 8.52 | X |



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161

P2204041

Requested Turnaround Time in Business Days (Surcharges) please circle
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day (Standard)

ALS Project No. P2204041

| | | | | | | | |
|---|--|----------------------------------|--|---|--|--|--|
| Company Name & Address (Reporting Information) PES ENVIRONMENTAL 2101 4th Ave Ste 1310 SEATTLE WA 98121 | | | | Project Name MVSC | | | |
| Project Manager MATT DAHL | | | | Project Number 443019-1358001.02-15 | | | |
| Phone 206 529 3980 | | | | P.O. # / Billing Information | | | |
| Email Address for Result Reporting MATT.DAHL@PES.COM | | | | Flow Controller ID (Bar code # - FC #) RACHEL.MCLAUGHLIN@MVSC.COM | | | |
| Client Sample ID STACK-070822 | | Laboratory ID Number 1 | | Canister ID (Bar code # - AC, SC, etc.) ISS01463 | | | |
| Date Collected 7/8/22 | | Time Collected 0945 | | Start Pressure "Hg -28 | | | |
| Date Collected 7/8/22 | | Time Collected 0945 | | End Pressure "Hg/psig -11 | | | |
| Comments e.g. Actual Preservative or specific instructions END PRESSURE UNCERTAIN | | | | | | | |
| Analysis Method TC-15 | | | | | | | |
| Project Requirements (MRLs, QAPP) | | | | | | | |

Report Tier Levels - please select

Tier I - Results (Default if not specified) _____
 Tier II (Results + QC Summaries) _____
 Tier III (Results + QC & Calibration Summaries) _____
 Tier IV (Data Validation Package) 10% Surcharge _____

EDD required Yes / No _____

Type: _____ Units: _____

Relinquished by: (Signature) *[Signature]* Date: **7/8/22** Time: **1000**

Relinquished by: (Signature) *[Signature]* Date: _____ Time: _____

Chain of Custody Seal: (Circle)
 INTACT BROKEN ABSENT

Date: **9-13-22** Time: **1111**

Date: _____ Time: _____

Cooler / Blank Temperature _____ °C

**ALS Environmental
Sample Acceptance Check Form**

Client: NV5

Work order: P2204041

Project: Manhattan Village Shopping Center / 443019-1358001.02-15

Sample(s) received on: 9/13/22

Date opened: 9/13/22

by: KYLE.WOODIN

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|-----------------|--------------------------------|---------------|-------------|-------------|----------------------------------|---------------------------------|
| P2204041-001.01 | 1.0 L Source Silonite Canister | | | | | |
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Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: NV5
Client Project ID: MVSC / 443019-1358001.02-15

ALS Project ID: P2204041

Tetrachloroethene

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS25
Analyst: Kylan Malloy
Sample Type: 1.0 L Silonite Summa Canister(s)
Test Notes:

Date(s) Collected: 9/8/22
Date Received: 9/13/22
Date Analyzed: 9/20/22

| Client Sample ID | ALS Sample ID | Injection | Canister | Result | MRL | Result | MRL | Data |
|------------------|---------------|-----------|----------|--------------------------|--------------------------|--------|------|------|
| | | Volume | Dilution | | | | | |
| | | Liter(s) | Factor | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | | | |
| STACK-090822 | P2204041-001 | 0.20 | 1.56 | 370 | 2.0 | 55 | 0.30 | |
| Method Blank | P220920-MB | 0.20 | 1.00 | ND | 1.3 | ND | 0.19 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: NV5
Client Project ID: MVSC / 443019-1358001.02-15

ALS Project ID: P2204041

Test Code: EPA TO-15
 Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS25
 Analyst: Kylan Malloy
 Sample Type: 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 9/8/22
 Date(s) Received: 9/13/22
 Date(s) Analyzed: 9/20/22

| Client Sample ID | ALS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|------------------------------|---------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P220920-MB | 97 | 105 | 90 | 70-130 | |
| Lab Control Sample | P220920-LCS | 96 | 100 | 94 | 70-130 | |
| Duplicate Lab Control Sample | P220920-DLCS | 97 | 103 | 90 | 70-130 | |
| STACK-090822 | P2204041-001 | 98 | 107 | 87 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: MVSC / 443019-1358001.02-15

ALS Project ID: P2204041
 ALS Sample ID: P220920-DLCS

Test Code: EPA TO-15
 Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS25
 Analyst: Kylan Malloy
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/20/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | ALS | | RPD | RPD | Data |
|----------|-------------------|--------------------------|--------------------------|--------------------------|------------|------------|--------|-------|-----------|------|
| | | LCS / DLCS | LCS | DLCS | % Recovery | Acceptance | RPD | | | |
| | | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | LCS | DLCS | Limits | Limit | Qualifier | |
| 127-18-4 | Tetrachloroethene | 212 | 190 | 202 | 90 | 95 | 63-130 | 5 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.



LABORATORY REPORT

December 14, 2022

Matt Dahl
NV5
2101 Fourth Ave., Suite 1310
Seattle, WA 98121

RE: Manhattan Village / 1358.001.03.015

Dear Matt:

Enclosed are the results of the sample submitted to our laboratory on December 7, 2022. For your reference, this analysis has been assigned our service request number P2205492.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental

11:06 pm, Dec 14, 2022

Sue Anderson
Project Manager



Client: NV5
Project: Manhattan Village / 1358.001.03.015

Service Request No: P2205492

CASE NARRATIVE

The sample was received intact under chain of custody on December 7, 2022 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

Volatile Organic Compound Analysis

The sample was analyzed for Tetrachloroethene in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The container was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.4 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

| Agency | Web Site | Number |
|---|---|----------------------------|
| Alaska DEC | http://dec.alaska.gov/eh/lab.aspx | 17-019 |
| Arizona DHS | http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home | AZ0694 |
| Florida DOH (NELAP) | http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html | E871020 |
| Louisiana DEQ (NELAP) | http://www.deq.louisiana.gov/page/la-lab-accreditation | 05071 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml | 2018027 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 1776326 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/enforcement/oqa.html | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | 4068-008 |
| Pennsylvania DEP | http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx | 68-03307 (Registration) |
| PJLA (DoD ELAP) | http://www.pjlabs.com/search-accredited-labs | 65818 (Testing) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html | T104704413- 19-10 |
| Utah DOH (NELAP) | http://health.utah.gov/lab/lab_cert_env | CA016272019 -10 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |
| <p>Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.</p> <p>Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.</p> | | |

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: NV5
Project ID: Manhattan Village / 1358.001.03.015

Service Request: P2205492

Date Received: 12/7/2022
Time Received: 10:29

TO-15 - VOC Cans

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Container ID | Pi1 (psig) | Pf1 (psig) | |
|------------------|--------------|--------|----------------|----------------|--------------|------------|------------|---|
| Stack-120222 | P2205492-001 | Air | 12/2/2022 | 09:55 | 1SS01045 | -2.00 | 6.92 | X |



Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

| | | | |
|--|--|---|---|
| Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day (Standard) | | ALS Project No. PS205492 | |
| Company Name & Address (Reporting Information) PES Environmental 21014 th Ave. #1310 Seattle, WA, 98121 | | ALS Contact: | |
| Project Name: Maghanta Village | | Analysis Method | |
| Project Number: 1358.001.03.015 | | | |
| P.O. # / Billing Information 413072-1358.001.03.015 | | Comments e.g. Actual Preservative or specific instructions TO-15-9 CF only X | |
| Sampler (Print & Sign) Anthony S. ... | | | |
| Canister ID (Bar code # - AC, SC, etc.) 15501645 | Flow Controller ID (Bar code # - FC #) N/A | | Canister Start Pressure "Hg" 27 |
| Canister End Pressure "Hg/psig" 4.9 | Sample Volume 1L | | |
| Client Sample ID Stack-120222 | Date Collected 17-02-2009:55 | | |
| Project Manager M. Pahl | Phone 206-529-3980 | | |
| Email Address for Result Reporting matt.dahlen@pess.com | Fax 206-529-3985 | | |
| Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) 10% Surcharge _____ | | | |
| Relinquished by: (Signature) | Date: 17-02-20 | Received by: (Signature) | |
| Relinquished by: (Signature) | Date: 17-02-20 | Received by: (Signature) | |
| Chain of Custody Seal: (Circle) INTACT _____ BROKEN _____ ABSENT _____ | | Project Requirements (MRLs, QAPP) | |
| Relinquished by: (Signature) | | Date: 17/2/20 | |
| Relinquished by: (Signature) | | Date: 17/2/20 | |
| Relinquished by: (Signature) | | Date: 17/2/20 | |

**ALS Environmental
Sample Acceptance Check Form**

Client: NV5 Work order: P2205492
 Project: Manhattan Village / 1358.001.03.015
 Sample(s) received on: 12/7/22 Date opened: 12/7/22 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|-----------------|--------------------------------|---------------|-------------|-------------|----------------------------------|---------------------------------|
| P2205492-001.01 | 1.0 L Source Silonite Canister | | | | | |
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Explain any discrepancies: (include lab sample ID numbers): _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: NV5
Client Project ID: Manhattan Village / 1358.001.03.015

ALS Project ID: P2205492

Tetrachloroethene

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Topacio Zavala
Sample Type: 1.0 L Silonite Summa Canister(s)
Test Notes:

Date(s) Collected: 12/2/22
Date Received: 12/7/22
Date Analyzed: 12/12 - 12/13/22

| Client Sample ID | ALS Sample ID | Injection | Canister | Result | MRL | Result | MRL | Data |
|------------------|---------------|-----------|----------|--------------------------|--------------------------|--------|-------|------|
| | | Volume | Dilution | | | | | |
| | | Liter(s) | Factor | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | | | |
| Stack-120222 | P2205492-001 | 0.40 | 1.70 | 160 | 2.2 | 24 | 0.33 | |
| Method Blank | P221212-MB | 1.00 | 1.00 | ND | 0.52 | ND | 0.077 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: NV5
Client Project ID: Manhattan Village / 1358.001.03.015

ALS Project ID: P2205492

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Silonite Summa Canister(s)
 Test Notes:

Date(s) Collected: 12/2/22
 Date(s) Received: 12/7/22
 Date(s) Analyzed: 12/12 - 12/13/22

| Client Sample ID | ALS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|------------------------------|---------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P221212-MB | 100 | 103 | 99 | 70-130 | |
| Lab Control Sample | P221212-LCS | 101 | 97 | 107 | 70-130 | |
| Duplicate Lab Control Sample | P221212-DLCS | 104 | 98 | 110 | 70-130 | |
| Stack-120222 | P2205492-001 | 98 | 97 | 101 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: NV5
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Manhattan Village / 1358.001.03.015

ALS Project ID: P2205492
 ALS Sample ID: P221212-DLCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Topacio Zavala
 Sample Type: 1.0 L Silonite Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 12/12/22
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount | | Result | | ALS | | | |
|----------|-------------------|--------------------------|--------------------------|--------------------------|------------|------------|--------|-------|-----------|
| | | LCS / DLCS | LCS | DLCS | % Recovery | Acceptance | RPD | RPD | Data |
| | | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | LCS | DLCS | Limits | Limit | Qualifier |
| 127-18-4 | Tetrachloroethene | 42.4 | 44.2 | 45.5 | 104 | 107 | 63-130 | 3 | 25 |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

MEMORANDUM

TO: Project File **DATE:** January 10, 2023

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 443022-135800103.015

TASK: EIM Data Validation Level EPA2A – 2022 – Stack and SVE Air Samples

LAB: ALS Environmental Service Request Numbers: P2201332, P2202495, P2204041, and P2205492

Quarterly stack samples were collected March 21, June 2, September 8, and December 2, 2022. Thirteen soil vapor extraction samples were also collected on June 2, 2022. Samples were collected from the Manhattan Village Shopping Center in Normandy Park, Washington. The samples were analyzed for the following:

- 75 VOCs by USEPA Method TO-15 (*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*, Second Edition, EPA/625/R-96/010B, January 1999); or
- Tetrachloroethene by USEPA Method TO-15.

Laboratory analytical services were provided by ALS Environmental (ALS) (also known as ALS Global (ALS)) of Simi Valley, California. Analytical data are reported under ALS's service request numbers P2201332, P2202495, P2204041, and P2205492

The quality assurance review of the analytical data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2020).

DATA VALIDATION

Completeness

The samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report with one minor exception:

- Service Request Number P2202495: The chain of custody laboratory receipt (signature block) does not include the year however ALS's cover letter indicates that samples were received on June 6, 2022. Samples were shipped by courier with supporting sample tracking information.

Sample Collection and Preservation

The laboratory supplied Source Can or Silonite Canisters (6- or 1-Liter) for the air samples. The samples were shipped, delivered by FedEx, and received in good condition by the laboratory. The samples were collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques with the following discussion:

- Service Request Number P2204041: A chain of custody note made by the sampler indicates that Sample Stack-090822 canister end pressure is uncertain (due to a missing pressure gauge) however the Sample Stack-090822 was received in good condition and intact based on pressure recordings made upon receipt.

Holding Times

The analyses for VOCs by Method TO-15 were performed within the 30-day recommended holding time limit for the air samples collected in a Source Can. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Case narrative and laboratory notes do not indicate that there are any issues with calibrations with the following discussion:

- Service Request Number P2201332: Sample Stack-032122 hexachlorobutadiene result is laboratory qualified (V) to indicate a low continuing calibration recovery below specified limits. **Sample Stack-032122 hexachlorobutadiene result is estimated (UJ) due to the low CCV recovery.**

Method Blank Results

Laboratory method blanks were included with the analytical batch per method requirement. The method blank results do not report any compounds at concentrations at or above the reporting detection limit (MRLs).

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

Field duplicates are not required for these sampling events. Refer to the Laboratory Control Sample section for additional precision information.

Laboratory Duplicate/Replicate Analyses

Laboratory replicates were not performed. Refer to the Laboratory Control Sample section for additional precision information.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air samples, method blanks, and laboratory control samples are within the laboratory surrogate control limits of 70 - 130% R with one exception:

- Service Request Number P2202495: Sample SVE-5-0602222 (diluted 10X) surrogate (1,2-dichloroethane-d4) recovery was recovered above criteria at 142%. Remaining two surrogates (toluene-d8 and bromofluorobenzene) are within laboratory acceptance criteria. **Sample SVE-5-0602222 tetrachloroethene result is estimated with potential high bias (J+).**

Laboratory Control Samples

Laboratory control samples/laboratory control sample duplicates (LCS/LCSDs) were analyzed for the VOCs by TO-15 along with each analytical batch. LCS/LCSD %Rs and relative percent differences (RPDs) are within QC criteria.

Matrix Spike/Matrix Spike Duplicates

A matrix spike/matrix spike duplicate (MS/MSD) is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis are reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu\text{g}/\text{m}^3$.

The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: NV5
Client Sample ID: STACK-032122
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P2201332-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC01785

Date Collected: 3/21/22
 Date Received: 3/25/22
 Date Analyzed: 4/7 - 4/8/22
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.39

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | ND | 0.72 | ND | 0.42 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 4.1 | 0.74 | 0.82 | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.71 | ND | 0.34 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.75 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.72 | ND | 0.28 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.72 | ND | 0.33 | |
| 74-83-9 | Bromomethane | ND | 0.71 | ND | 0.18 | |
| 75-00-3 | Chloroethane | ND | 0.71 | ND | 0.27 | |
| 64-17-5 | Ethanol | ND | 7.0 | ND | 3.7 | |
| 75-05-8 | Acetonitrile | ND | 1.4 | ND | 0.83 | |
| 107-02-8 | Acrolein | ND | 1.4 | ND | 0.61 | |
| 67-64-1 | Acetone | ND | 7.2 | ND | 3.0 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 2.5 | 0.72 | 0.44 | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 1.4 | ND | 0.57 | |
| 107-13-1 | Acrylonitrile | ND | 1.4 | ND | 0.64 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.75 | ND | 0.19 | |
| 75-09-2 | Methylene Chloride | ND | 0.72 | ND | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.74 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.75 | ND | 0.098 | |
| 75-15-0 | Carbon Disulfide | ND | 1.5 | ND | 0.49 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.74 | ND | 0.19 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.74 | ND | 0.20 | |
| 108-05-4 | Vinyl Acetate | ND | 7.0 | ND | 2.0 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1.4 | ND | 0.47 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: NV5
Client Sample ID: STACK-032122
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P2201332-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC01785

Date Collected: 3/21/22
 Date Received: 3/25/22
 Date Analyzed: 4/7 - 4/8/22
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.39

| CAS # | Compound | Result $\mu\text{g}/\text{m}^3$ | MRL $\mu\text{g}/\text{m}^3$ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|------------------------------------|---------------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | 1.7 | 0.72 | 0.42 | 0.18 | |
| 141-78-6 | Ethyl Acetate | ND | 2.9 | ND | 0.81 | |
| 110-54-3 | n-Hexane | ND | 0.74 | ND | 0.21 | |
| 67-66-3 | Chloroform | 2.2 | 0.75 | 0.46 | 0.15 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 1.4 | ND | 0.47 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.74 | ND | 0.18 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.72 | ND | 0.13 | |
| 71-43-2 | Benzene | ND | 0.70 | ND | 0.22 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.70 | ND | 0.11 | |
| 110-82-7 | Cyclohexane | ND | 1.5 | ND | 0.44 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.70 | ND | 0.15 | |
| 75-27-4 | Bromodichloromethane | ND | 0.74 | ND | 0.11 | |
| 79-01-6 | Trichloroethene | 0.99 | 0.72 | 0.18 | 0.13 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.72 | ND | 0.20 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.5 | ND | 0.37 | |
| 142-82-5 | n-Heptane | ND | 0.74 | ND | 0.18 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.70 | ND | 0.15 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.5 | ND | 0.37 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.71 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.72 | ND | 0.13 | |
| 108-88-3 | Toluene | ND | 0.72 | ND | 0.19 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.37 | |
| 124-48-1 | Dibromochloromethane | ND | 0.74 | ND | 0.087 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.72 | ND | 0.094 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.32 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: NV5
Client Sample ID: STACK-032122
Client Project ID: MVSC / 4430.19.1358.001.02-015

ALS Project ID: P2201332
 ALS Sample ID: P2201332-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Simon Cao
 Sample Type: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC01785

Date Collected: 3/21/22
 Date Received: 3/25/22
 Date Analyzed: 4/7 - 4/8/22
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -1.60 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.39

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.74 | ND | 0.16 | |
| 127-18-4 | Tetrachloroethene | 200 | 7.2 | 30 | 1.1 | D |
| 108-90-7 | Chlorobenzene | ND | 0.72 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | ND | 0.72 | ND | 0.17 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.72 | ND | 0.070 | |
| 100-42-5 | Styrene | ND | 0.70 | ND | 0.16 | |
| 95-47-6 | o-Xylene | ND | 0.72 | ND | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.72 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.72 | ND | 0.11 | |
| 98-82-8 | Cumene | ND | 0.72 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | ND | 0.75 | ND | 0.13 | |
| 103-65-1 | n-Propylbenzene | ND | 0.74 | ND | 0.15 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.74 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.72 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.72 | ND | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.30 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.72 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.72 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.70 | ND | 0.12 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.4 | ND | 0.14 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.5 | ND | 0.21 | |
| 91-20-3 | Naphthalene | ND | 0.72 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.72 | ND | 0.068 | UJ V |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

V = The continuing calibration verification standard was outside (biased low) the specified limits for this compound.

D = The reported result is from a dilution.

JC 1/9/2023

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: NV5
Client Project ID: MVSC / 1358.001.02.015

ALS Project ID: P2202495

Tetrachloroethene

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sample Type: 1.0 L Summa Canister(s) / 1.0 L Silonite Summa Canister(s)
Test Notes:

Date(s) Collected: 6/2/22
Date Received: 6/6/22
Date Analyzed: 6/13 - 6/14/22

| Client Sample ID | ALS Sample ID | Injection Volume Liter(s) | Canister Dilution Factor | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------------|---------------|------------------------------|-----------------------------|-----------------|--------------|----------------|-------------|-------------------|
| SVE-8-060222 | P2202495-001 | 0.40 | 1.60 | 49 | 2.1 | 7.2 | 0.31 | |
| SVE-12A-060222 | P2202495-002 | 0.40 | 1.57 | 330 | 2.0 | 49 | 0.30 | |
| STACK-060222 | P2202495-003 | 0.40 | 1.66 | 140 | 2.2 | 21 | 0.32 | |
| SVE-22-060222 | P2202495-004 | 0.40 | 1.67 | 110 | 2.2 | 16 | 0.32 | |
| SVE-6-060222 | P2202495-005 | 0.40 | 1.55 | 340 | 2.0 | 50 | 0.30 | |
| SVE-20-060222 | P2202495-006 | 0.40 | 1.74 | 110 | 2.3 | 17 | 0.33 | |
| SVE-24-060222 | P2202495-007 | 0.40 | 1.60 | 46 | 2.1 | 6.7 | 0.31 | |
| SVE-23-060222 | P2202495-008 | 0.40 | 1.60 | 61 | 2.1 | 8.9 | 0.31 | |
| SVE-10-060222 | P2202495-009 | 0.40 | 1.59 | 72 | 2.1 | 11 | 0.30 | |
| SVE-7-060222 | P2202495-010 | 0.40 | 1.51 | 120 | 2.0 | 18 | 0.29 | |
| SVE-5-060222 | P2202495-011 | 0.040 | 2.32 | 660 J | 30 | 97 J | 4.4 | D |
| SVE-21-060222 | P2202495-012 | 0.40 | 1.59 | 200 | 2.1 | 30 | 0.30 | |
| SVE-25-A60222 | P2202495-013 | 0.40 | 1.58 | 36 | 2.1 | 5.3 | 0.30 | |
| SVE-11A-060222 | P2202495-014 | 0.40 | 1.51 | 74 | 2.0 | 11 | 0.29 | |
| Method Blank | P220613-MB | 1.00 | 1.00 | ND | 0.52 | ND | 0.077 | |
| Method Blank | P220614-MB | 1.00 | 1.00 | ND | 0.52 | ND | 0.077 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

D = The reported result is from a dilution.

JC 1/9/2023

ATTACHMENT C

WELL COMPLETION DETAILS AND HISTORICAL DATA

- Table C1 – Well Completion Details
- Table C2 – Historical Summary of Groundwater Elevations (1999-2021)
- Table C3 – Historical Summary of Groundwater Analytical Results (1999-2021)
- Table C4 – Historical Summary of Soil Analytical Results (1998 – 2021)
- Table C5 - Soil Vapor Results - March 11 and June 3, 2019

**Table C1
Well Completion and Boring Details
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Well | Ecology Well Tag Number | Date | | Drilling Method | Location (feet NAD 83/91) | | Elevation (feet NAVD 88) | | | Survey Date | Monument Type | Boring Depth (feet) | Well Diameter (inches) | Screen Depth (ft bgs) | | Slot Size (inch) | Filter Pack (ft bgs) | Seal (ft bgs) |
|------------------------------------|-------------------------|---------------------------------|---------|-----------------|---------------------------|-------------|--------------------------|--------------------|----------------|--------------|---------------|---------------------|------------------------|-----------------------|---------------------|------------------|----------------------|---------------|
| | | Installed | Decom. | | Northing | Easting | Monitoring Point | Surface Casing Rim | Ground Surface | | | | | Below Ground | Below Top of Casing | | | |
| | | Shallow Monitoring Wells | | | | | | | | | | | | | | | | |
| MW-4 | BAB 481 | 4/8/08 | -- | HSA | 164,968.5 | 1,268,493.6 | 310.47 | 311.03 | 311.02 | PES, 08/2015 | Flush | 44 | 2 | 34-44 | 33.45-43.45 | 0.010 | 32-44 | 0-32 |
| MW-6 | BAB 482 | 4/9/08 | -- | HSA | 165,615.5 | 1,268,908.5 | 304.14 | 304.71 | 304.68 | PES, 08/2015 | Flush | 45 | 2 | 35-45 | 34.46-44.46 | 0.010 | 33-45 | 0-35 |
| MW-7 | BAB 483 | 4/9/08 | -- | HSA | 165,652.2 | 1,268,684.8 | 302.64 | 303.18 | 303.17 | PES, 08/2015 | Flush | 45 | 2 | 35-45 | 34.47-44.47 | 0.010 | 33-45 | 0-35 |
| MW-9 | APE 296 | 8/18/08 | -- | HSA | 166,019.8 | 1,268,663.9 | 284.97 | 285.35 | 285.37 | PES, 08/2015 | Flush | 55 | 2 | 32-42 | 31.6-41.6 | 0.010 | 30-42 | 0-30 |
| MW-10 | BHB 003 | 2/3/11 | -- | HSA | 165,132.3 | 1,268,522.8 | 306.71 | 307.20 | 307.19 | PES, 08/2015 | Flush | 42 | 2 | 32-42 | 31.52-41.52 | 0.010 | 30-42 | 0-30 |
| MW-11 | BHB 004 | 2/3/11 | -- | HSA | 165,122.2 | 1,268,582.9 | 307.62 | 308.13 | 308.06 | PES, 08/2015 | Flush | 42 | 2 | 32-42 | 31.56-41.56 | 0.010 | 30-42 | 0-30 |
| MW-17 | BLI 196 | 3/1/19 | -- | HSA | 165,371.0 | 1,268,609.7 | 303.01 | 303.56 | 303.60 | PES, 10/2019 | Flush | 39.5 | 2 | 28.2-38.2 | 27.61-37.61 | 0.010 | 26-39.5 | 0-26 |
| MW-18 | BLI 195 | 2/28/19 | -- | HSA | 165,386.9 | 1,268,688.3 | 305.26 | 305.74 | 305.70 | PES, 10/2019 | Flush | 41.5 | 2 | 30.3-40.3 | 29.86-39.86 | 0.010 | 27.5-41.5 | 0-27.5 |
| MW-20 | BLK 428 | 10/17/19 | -- | HSA | 165,343.4 | 1,268,662.1 | 305.51 | 305.86 | 306.10 | PES, 10/2019 | Flush | 46 | 2 | 30.0-45.0 | 29.41-44.41 | 0.010 | 28-46 | 0-28 |
| DC-4 | AEE 926 | 10/13/98 | -- | HSA | 165,058.1 | 1,268,537.4 | 312.35 | 312.96 | 312.99 | PES, 08/2015 | Flush | 49 | 2 | 44-49 | 43.36-48.36 | 0.020 | 41-49 | 0-41 |
| DC-6 | -- | 1/22/99 | Missing | HSA | -- | -- | 308.46 | -- | -- | SCS, 1999 | Flush | 45 | 2 | 40-45 | -- | 0.020 | 37-45 | 0-37 |
| DC-7 | -- | 1/18/99 | -- | HSA | 165,318.1 | 1,268,514.4 | 302.61 | 303.30 | 303.26 | PES, 08/2015 | Flush | 40 | 2 | 35-40 | 34.35-39.35 | 0.020 | 33-40 | 0-33 |
| DC-8 | -- | 1/18/99 | -- | HSA | 165,328.8 | 1,268,685.4 | 306.23 | 306.70 | 306.59 | PES, 08/2015 | Flush | 42 | 2 | 37-42 | 36.64-41.64 | 0.020 | 34-42 | 0-34 |
| DC-9A | AER 681 | 4/6/99 | Missing | HSA | 165,124.7 | 1,268,587.3 | 308.02 | -- | -- | ERM, 08/2008 | Flush | 38 | 2 | 33-38 | 32.6-37.6 | 0.020 | 31-38 | 0-31 |
| DC-10A | AER 680 | 4/5/99 | -- | HSA | 165,117.2 | 1,268,497.2 | 307.73 | 307.83 | 307.72 | PES, 08/2015 | Flush | 37 | 2 | 32-37 | 32.01-37.01 | 0.020 | 30-37 | 0-30 |
| DC-15 | APS 768 | 4/16/07 | -- | HSA | 165,267.1 | 1,268,705.9 | 307.89 | 308.20 | -- | PES, 02/2013 | Flush | 42 | 2 | 31-41 | 30.7-40.7 | 0.010 | 29-41 | 0-29 |
| DC-17 | APS 767 | 4/16/07 | -- | HSA | 165,194.2 | 1,268,528.6 | 305.16 | 305.58 | 305.35 | PES, 05/2013 | Flush | 40 | 2 | 30-40 | 29.81-39.81 | 0.010 | 28-40 | 0-28 |
| KMW-3 | APK 569 | 5/1/06 | -- | HSA | 165,357.4 | 1,268,462.5 | 296.99 | 297.77 | 297.70 | PES, 10/2019 | Flush | 40 | 2 | 25.18-35.18 | 24.47-34.47 | 0.010 | 8-35 | 0-8 |
| KMW-7 | APS 342 | 3/26/07 | -- | HSA | 165,389.7 | 1,268,563.6 | 301.42 | 302.02 | 302.00 | PES, 10/2019 | Flush | 44 | 2 | 29.35-44.35 | 28.77-43.77 | 0.020 | 27-44 | 0-27 |
| KMW-8 | APS 341 | 3/26/07 | -- | HSA | 165,386.2 | 1,268,800.7 | 308.16 | 308.73 | 308.70 | PES, 10/2019 | Flush | 44 | 2 | 29.24-44.24 | 28.70-43.70 | 0.020 | 27-44 | 0-29 |
| Deep Monitoring Wells | | | | | | | | | | | | | | | | | | |
| DC-9B | AER 678 | 4/5/99 | Missing | HSA | 165,122.8 | 1,268,589.4 | 308.16 | -- | -- | ERM, 08/2008 | Flush | 60 | 2 | 53-58 | -- | 0.020 | 50.5-58 | 0-50.5 |
| Soil Vapor Extraction Wells | | | | | | | | | | | | | | | | | | |
| SVE-1 | BCS 403 | 6/29/09 | -- | HSA | 164,943.5 | 1,268,516.2 | 311.85 | 312.02 | -- | PES, 08/2015 | Flush | 35.5 | 2 | 10-35 | 9.7-34.7 | 0.020 | 8-35.5 | 0-8 |
| SVE-2 | BCS 404 | 6/29/09 | -- | HSA | 165,000.3 | 1,268,522.6 | 312.41 | 312.58 | -- | PES, 08/2015 | Flush | 35.5 | 2 | 10-35 | 9.6-34.6 | 0.020 | 8-35.5 | 0-8 |
| SVE-3 | BCS 409 | 6/30/09 | -- | HSA | 165,070.2 | 1,268,536.4 | 308.28 | -- | 307.84 | PES, 02/2013 | Flush | 30.5 | 2 | 10-30 | 10.44-30.44 | 0.020 | 8-30.5 | 0-8 |
| SVE-4 | BCS 408 | 6/30/09 | -- | HSA | 165,069.1 | 1,268,589.2 | 308.90 | -- | 308.31 | PES, 02/2013 | Flush | 30.5 | 2 | 10-30 | 10.59-30.59 | 0.020 | 8-30.5 | 0-8 |
| SVE-5 | BCS 407 | 6/30/09 | -- | HSA | 165,068.8 | 1,268,655.3 | 309.91 | -- | 309.31 | PES, 02/2013 | Flush | 30.5 | 2 | 10-30 | 10.6-30.6 | 0.020 | 8-30.5 | 0-8 |
| SVE-6 | BBL 378 | 6/26/09 | -- | AKVAC | 165,057.5 | 1,268,693.4 | 313.03 | 313.57 | -- | PES, 02/2013 | Flush | 10 | 2 | 5-10 | 4.6-9.6 | 0.010 | 4-10 | 0-4 |
| SVE-7 | BCS 406 | 6/30/09 | -- | HSA | 165,077.5 | 1,268,704.6 | 310.71 | -- | 309.95 | PES, 02/2013 | Flush | 30.5 | 2 | 10-30 | 10.76-30.76 | 0.020 | 8-30.5 | 0-8 |
| SVE-8 | BCS 410 | 6/30/09 | -- | HSA | 165,085.8 | 1,268,738.3 | 311.48 | -- | 310.56 | PES, 02/2013 | Flush | 30.5 | 2 | 10-30 | 10.92-30.92 | 0.020 | 8-30.5 | 0-8 |
| SVE-9 | BCS 405 | 6/29/09 | -- | HSA | 165,060.0 | 1,268,819.5 | 313.31 | -- | 312.13 | PES, 02/2013 | Flush | 30.5 | 2 | 10-30 | 11.18-31.18 | 0.020 | 8-30.5 | 0-8 |
| SVE-10 | BCS 402 | 6/30/09 | -- | HSA | 165,187.7 | 1,268,841.1 | 310.69 | 311.20 | 311.09 | PES 03/2021 | Flush | 30.5 | 2 | 10-30 | 9.8-29.8 | 0.020 | 8-30.5 | 0-8 |
| SVE-11A | BIE307 | 11/18/13 | -- | HSA | 164,824.5 | 1,268,484.7 | -- | 311.21 | -- | PES, 08/2015 | Flush | 20 | 4 | 5-19.98 | 4.6-19.58 | 0.020 | 3-20 | 0-3 |
| SVE-11B | BIE301 | 11/18/13 | -- | HSA | 164,831.2 | 1,268,492.0 | -- | 311.43 | -- | PES, 08/2015 | Flush | 57 | 4 | 20-35 | 19.6-34.6 | 0.020 | 18-36 | 0-18 |
| SVE-12A | BIE303 | 11/19/13 | -- | HSA | 164,851.6 | 1,268,512.2 | -- | 312.06 | -- | PES, 08/2015 | Flush | 20 | 4 | 5-19.98 | 4.6-19.58 | 0.020 | 3-20 | 0-3 |
| SVE-12B | BIE304 | 11/20/13 | -- | HSA | 164,853.8 | 1,268,506.7 | -- | 311.52 | -- | PES, 08/2015 | Flush | 57 | 4 | 20-35 | 19.6-34.6 | 0.020 | 18-36 | 0-18 |
| SVE-13A | BIE306 | 11/22/13 | -- | HSA | 164,912.3 | 1,268,505.4 | -- | 310.95 | -- | PES, 08/2015 | Flush | 20 | 4 | 5-19.98 | 4.6-19.58 | 0.020 | 3-20 | 0-3 |
| SVE-13B | BIE305 | 11/21/13 | -- | HSA | 164,903.3 | 1,268,505.6 | -- | 310.99 | -- | PES, 08/2015 | Flush | 57.5 | 4 | 20-35 | 19.6-34.6 | 0.020 | 18-36 | 0-18 |
| SVE-14 | BID732 | 10/13/14 | -- | HSA | 164,945.9 | 1,268,498.5 | -- | 311.06 | -- | PES, 08/2015 | Flush | 36 | 4 | 19.63-34.63 | 19.23-34.23 | 0.020 | 18.3-36 | 3-18.3 |
| SVE-15 | BID736 | 10/15/14 | -- | HSA | 165,000.5 | 1,268,503.7 | -- | 311.30 | -- | PES, 08/2015 | Flush | 36 | 4 | 20.61-34.96 | 20.21-34.56 | 0.020 | 19.3-36 | 3.5-19.3 |
| SVE-16 | BID737 | 10/15/14 | -- | HSA | 165,035.5 | 1,268,501.1 | -- | 310.83 | -- | PES, 08/2015 | Flush | 36 | 4 | 20.49-34.79 | 20.09-34.39 | 0.020 | 18-36 | 3.5-18 |
| SVE-17 | BID709 | 9/24/14 | -- | HSA | 165,071.8 | 1,268,503.4 | -- | 308.39 | -- | PES, 08/2015 | Flush | 31 | 4 | 19.91-29.91 | 19.51-29.51 | 0.020 | 18-31 | 3.3-18 |
| SVE-18 | BID708 | 9/23/14 | -- | HSA | 165,107.0 | 1,268,504.1 | -- | 307.34 | -- | PES, 08/2015 | Flush | 31 | 4 | 19.79-29.79 | 19.39-29.39 | 0.020 | 17.9-31 | 16-17.9 |
| SVE-19 | BID715 | 9/29/14 | -- | HSA | 165,091.9 | 1,268,579.7 | -- | 308.53 | -- | PES, 08/2015 | Flush | 31 | 4 | 19.99-29.99 | 19.59-29.59 | 0.020 | 18-31 | 3.5-18 |
| SVE-20 | BLZ 286 | 8/30/21 | -- | HSA | 165,057.7 | 1,268,696.8 | 313.02 | 313.37 | 313.42 | PES, 03/2021 | Flush | 30 | 4 | 10.3-25.4 | 9.9-25 | 0.020 | 8-25 | 3-8 |
| SVE-21 | BLZ 287 | 8/30/21 | -- | HSA | 165,057.2 | 1,268,703.5 | 313.04 | 313.47 | 313.51 | PES, 03/2021 | Flush | 38 | 4 | 25.7-37.7 | 25.3-37.3 | 0.020 | 23-38 | 3-23 |
| SVE-22 | BLZ 288 | 9/1/21 | -- | HSA | 165,085.5 | 1,268,715.6 | 309.90 | 310.27 | 310.20 | PES, 03/2021 | Flush | 36 | 4 | 20.6-35.6 | 20.2-35.2 | 0.020 | 18-36 | 3-18 |

**Table C1
Well Completion and Boring Details
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Well | Ecology Well Tag Number | Date | | Drilling Method | Location (feet NAD 83/91) | | Elevation (feet NAVD 88) | | | Survey Date | Monument Type | Boring Depth (feet) | Well Diameter (inches) | Screen Depth (ft bgs) | | Slot Size (inch) | Filter Pack (ft bgs) | Seal (ft bgs) |
|-----------------------------------|-------------------------|-----------|---------|-----------------|---------------------------|-------------|--------------------------|--------------------|----------------|--------------|---------------|---------------------|------------------------|-----------------------|---------------------|------------------|----------------------|---------------|
| | | Installed | Decom. | | Northing | Easting | Monitoring Point | Surface Casing Rim | Ground Surface | | | | | Below Ground | Below Top of Casing | | | |
| | | SVE-23 | BLZ 289 | | 9/1/21 | -- | HSA | 165,180.7 | 1,268,839.9 | | | | | 310.71 | 311.22 | | | |
| SVE-24 | BLZ 290 | 9/1/21 | -- | HSA | 165,175.9 | 1,268,862.8 | 312.20 | 312.53 | 312.50 | PES, 03/2021 | Flush | 23 | 4 | 10.3-22.6 | 9.9-22.2 | 0.020 | 8-23 | 3-8 |
| SVE-25 | BLZ 285 | 9/2/21 | -- | HSA | 165,164.6 | 1,268,852.0 | 311.32 | 311.86 | 311.77 | PES, 03/2021 | Flush | 36.9 | 4 | 22.8-35.7 | 22.4-35.3 | 0.020 | 18-37 | 3-18 |
| Vapor Monitoring Probes | | | | | | | | | | | | | | | | | | |
| VMP-1 (B-5) | BAB 454 | 3/26/08 | -- | DP | 164,828.0 | 1,268,482.4 | 310.91 | 311.01 | -- | PES, 08/2015 | Flush | 30 | 0.75 | 10-15 | 9.7-14.7 | 0.010 | 7-30 | 0-7 |
| VMP-2 (B-7) | BAB 453 | 3/25/08 | -- | DP | 164,964.6 | 1,268,493.8 | 310.97 | 311.04 | -- | PES, 08/2015 | Flush | 30 | 0.75 | 10-15 | 9.8-14.8 | 0.010 | 7-30 | 0-7 |
| VMP-3 (B-9) | BAB 452 | 3/25/08 | -- | DP | 165,028.4 | 1,268,497.6 | 310.58 | 310.71 | -- | PES, 02/2013 | Flush | 30 | 0.75 | 10-15 | 9.9-14.9 | 0.010 | 7-30 | 0-7 |
| VMP-4 (B-11) | BAB 455 | 3/27/08 | -- | DP | 165,079.0 | 1,268,533.8 | 307.67 | 308.00 | -- | PES, 02/2013 | Flush | 30 | 0.75 | 10-15 | 9.7-14.7 | 0.010 | 7-30 | 0-7 |
| VMP-5 (B-12) | BAB 456 | 3/27/08 | -- | DP | 165,083.7 | 1,268,602.8 | 308.22 | 308.48 | -- | PES, 02/2013 | Flush | 25 | 0.75 | 10-15 | 9.7-14.7 | 0.010 | 7-25 | 0-7 |
| VMP-6 (B-13) | BAB 457 | 3/27/08 | -- | DP | 165,071.2 | 1,268,674.9 | 308.95 | 309.18 | -- | PES, 02/2013 | Flush | 26 | 0.75 | 10-15 | 9.8-14.8 | 0.010 | 7-26 | 0-7 |
| Soil Vapor Sampling Probes | | | | | | | | | | | | | | | | | | |
| SVS-10 | NA | 11/5/03 | -- | HA | -- | -- | -- | -- | -- | -- | Flush | 1.0 | 1.0 | 0.96-1.00 | -- | Mesh | 0.5-1.0 | 0-0.5 |
| SVS-11 | NA | 4/16/18 | -- | HA | -- | -- | -- | -- | -- | -- | Flush | 1.3 | 0.63 | 1.27-1.30 | -- | Mesh | 0.5-1.0 | 0-0.5 |
| SVS-12 | NA | 4/16/18 | 6/2/22 | HA | -- | -- | -- | -- | -- | -- | Flush | 1.3 | 0.63 | 1.27-1.30 | -- | Mesh | 0.5-1.0 | 0-0.5 |
| SVS-13 | NA | 4/16/18 | -- | HA | -- | -- | -- | -- | -- | -- | Flush | 1.2 | 0.63 | 1.27-1.30 | -- | Mesh | 0.5-1.0 | 0-0.5 |
| SVS-14 | NA | 4/25/18 | -- | HA | -- | -- | -- | -- | -- | -- | Flush | 1.3 | 0.63 | 1.27-1.30 | -- | Mesh | 0.5-1.0 | 0-0.5 |
| SVS-15 | NA | 4/25/18 | -- | HA | -- | -- | -- | -- | -- | -- | Flush | 1.3 | 0.63 | 1.27-1.30 | -- | Mesh | 0.5-1.0 | 0-0.5 |
| SVS-16 | NA | 4/25/18 | 6/2/22 | HA | -- | -- | -- | -- | -- | -- | Flush | 1.3 | 0.63 | 1.27-1.30 | -- | Mesh | 0.5-1.0 | 0-0.5 |
| SVS-17 | BKX 980 | 2/28/19 | -- | HA | -- | -- | -- | -- | -- | -- | Flush | 5.0 | 2.25 | 4.5-5.0 | -- | Mesh | 4-5 | 0-4 |
| SVS-18 | NA | 9/28/22 | -- | HA | -- | -- | -- | -- | -- | -- | Flush | 1.0 | 0.63 | 4.5-5.0 | -- | Mesh | 4-5 | 0-4 |
| Recirculation Well | | | | | | | | | | | | | | | | | | |
| TW-1 | APK 570 | 5/2/06 | -- | HSA | 165,114.8 | 1,268,571.3 | -- | -- | -- | PES, 02/2013 | AG | 50 | 6 | 25-35/45-50 | -- | 0.010 | 22-35/40-50 | 0-22/35-40 |
| Pilot Test Injection Well | | | | | | | | | | | | | | | | | | |
| IW-1 | BHB 291 | 4/29/11 | -- | HSA | -- | -- | -- | -- | -- | -- | AG | 38 | 2 | 33-38 | -- | 0.010 | 31-38 | 0-31 |
| Air Sparging Wells | | | | | | | | | | | | | | | | | | |
| AS-1 | BHV 647 | 5/17/13 | -- | HSA | 165,116.9 | 1,268,511.0 | -- | 307.23 | 307.34 | PES, 08/2015 | Flush | 48 | 1 | 43.8-45.8 | 43.4-45.4 | 0.010 | 43.5-48 | 0-43.5 |
| AS-2 | BID714 | 9/29/14 | -- | HSA | 165,093.2 | 1,268,557.0 | -- | 308.30 | -- | PES, 08/2015 | Flush | 53 | 2 | 48.08-51.13 | 47.68-50.73 | 0.020 | 48-53 | 3.0-48 |
| AS-3 | BID718 | 10/1/14 | -- | HSA | 165,091.7 | 1,268,574.0 | -- | 308.44 | -- | PES, 08/2015 | Flush | 51 | 2 | 48.14-50.14 | 47.74-49.74 | 0.020 | 46-51 | 3.6-46 |
| AS-4 | BID717 | 9/30/14 | -- | HSA | 165,073.3 | 1,268,590.4 | -- | 308.25 | -- | PES, 08/2015 | Flush | 51 | 2 | 48.82-50.80 | 48.42-50.4 | 0.020 | 47.3-51 | 3.3-47.3 |
| AS-5 | BID716 | 9/30/14 | -- | HSA | 165,073.7 | 1,268,566.0 | -- | 307.97 | -- | PES, 08/2015 | Flush | 52 | 2 | 48.77-50.79 | 48.37-50.39 | 0.020 | 47.5-52 | 3.5-47.5 |
| AS-6 | BID713 | 9/26/14 | -- | HSA | 165,073.2 | 1,268,541.5 | -- | 307.89 | -- | PES, 08/2015 | Flush | 52 | 2 | 48.91-50.92 | 48.51-50.52 | 0.020 | 47.6-52 | 3.5-47.6 |
| AS-7 | BID710 | 9/24/14 | -- | HSA | 165,080.3 | 1,268,521.9 | -- | 308.01 | -- | PES, 08/2015 | Flush | 50.5 | 2 | 46.93-48.91 | 46.53-48.51 | 0.020 | 46-50.5 | 3.5-43 |
| AS-8 | BID740 | 10/17/14 | -- | HSA | 165,058.0 | 1,268,525.1 | -- | 312.52 | -- | PES, 08/2015 | Flush | 54 | 2 | 52.10-54.14 | 51.7-53.74 | 0.020 | 51-54.31 | 3.5-51 |
| AS-9 | BID739 | 10/16/14 | -- | HSA | 165,029.5 | 1,268,522.9 | -- | 312.52 | -- | PES, 08/2015 | Flush | 54 | 2 | 51.09-53.11 | 50.69-52.71 | 0.020 | 50-54 | 4-50 |
| AS-10 | BID733 | 10/14/14 | -- | HSA | 165,004.5 | 1,268,521.9 | -- | 312.52 | -- | PES, 08/2015 | Flush | 56 | 2 | 52.78-54.80 | 52.38-54.4 | 0.020 | 52-56 | 3.9-52 |
| AS-11 | BID731 | 10/13/14 | -- | HSA | 164,976.2 | 1,268,521.3 | -- | 312.57 | -- | PES, 08/2015 | Flush | 54.5 | 2 | 52.27-54.27 | 51.87-53.87 | 0.020 | 50.51-54.5 | 3-50.5 |
| AS-12 | BID729 | 10/10/14 | -- | HSA | 164,948.4 | 1,268,520.9 | -- | 312.34 | -- | PES, 08/2015 | Flush | 54.24 | 2 | 52.06-54.07 | 51.66-53.67 | 0.020 | 50.7-54.24 | 3.5-50.7 |
| AS-13 | BID728 | 10/9/14 | -- | HSA | 164,920.9 | 1,268,520.2 | -- | 311.72 | -- | PES, 08/2015 | Flush | 54 | 2 | 51.64-53.67 | 51.24-53.27 | 0.020 | 50.7-54 | 3.5-50.7 |
| AS-14 | BID726 | 10/8/14 | -- | HSA | 164,891.0 | 1,268,520.2 | -- | 311.93 | -- | PES, 08/2015 | Flush | 54.09 | 2 | 51.88-53.92 | 51.48-53.52 | 0.020 | 50.9-54.09 | 3.3-50.09 |
| AS-15 | BID723 | 10/6/14 | -- | HSA | 164,865.7 | 1,268,520.3 | -- | 312.35 | -- | PES, 08/2015 | Flush | 54 | 2 | 50.89-52.87 | 50.49-52.47 | 0.020 | 50-54 | 3.5-50 |
| AS-16 | BID724 | 10/7/14 | -- | HSA | 164,841.0 | 1,268,511.9 | -- | 312.37 | -- | PES, 08/2015 | Flush | 54 | 2 | 51.89-53.97 | 51.49-53.57 | 0.020 | 51-54.04 | 3.3-51 |
| AS-17 | BID721 | 10/3/14 | -- | HSA | 164,821.9 | 1,268,488.3 | -- | 311.44 | -- | PES, 08/2015 | Flush | 54.02 | 2 | 51.87-53.85 | 51.47-53.45 | 0.020 | 50.5-54.02 | 3.3-50.5 |
| AS-18 | BID719 | 10/2/14 | -- | HSA | 164,810.9 | 1,268,465.6 | -- | 310.51 | -- | PES, 08/2015 | Flush | 54.5 | 2 | 50.37-52.35 | 49.97-51.95 | 0.020 | 49.5-54.5 | 3.6-49.5 |
| AS-19 | BID720 | 10/3/14 | -- | HSA | 164,834.5 | 1,268,474.4 | -- | 310.67 | -- | PES, 08/2015 | Flush | 54.08 | 2 | 51.94-53.91 | 51.54-53.51 | 0.020 | 50.7-54.08 | 3.0-54.08 |
| AS-20 | BID722 | 10/6/14 | -- | HSA | 164,852.1 | 1,268,491.4 | -- | 311.00 | -- | PES, 08/2015 | Flush | 54 | 2 | 50.96-52.94 | 50.56-52.54 | 0.020 | 49.6-54 | 3.5-49.6 |
| AS-21 | BID725 | 10/7/14 | -- | HSA | 164,879.0 | 1,268,495.8 | -- | 310.98 | -- | PES, 08/2015 | Flush | 55 | 2 | 51.92-53.92 | 51.52-53.52 | 0.020 | 50.7-55 | 3.5-50.7 |
| AS-22 | BID727 | 10/8/14 | -- | HSA | 164,907.4 | 1,268,496.1 | -- | 310.72 | -- | PES, 08/2015 | Flush | 55 | 2 | 52.38-54.40 | 51.98-54 | 0.020 | 51.5-55 | 3.5-51.5 |
| AS-23 | BID730 | 10/10/14 | -- | HSA | 164,935.3 | 1,268,497.1 | -- | 310.88 | -- | PES, 08/2015 | Flush | 55 | 2 | 52.72-54.76 | 52.32-54.36 | 0.020 | 52-55 | 3.7-55 |
| AS-24 | BID734 | 10/14/14 | -- | HSA | 164,963.7 | 1,268,494.9 | -- | 311.08 | -- | PES, 08/2015 | Flush | 55 | 2 | 52.68-54.74 | 52.28-54.34 | 0.020 | 52-55 | 3.5-52 |

**Table C1
Well Completion and Boring Details
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Well | Ecology Well Tag Number | Date | | Drilling Method | Location (feet NAD 83/91) | | Elevation (feet NAVD 88) | | | Survey Date | Monument Type | Boring Depth (feet) | Well Diameter (inches) | Screen Depth (ft bgs) | | Slot Size (inch) | Filter Pack (ft bgs) | Seal (ft bgs) |
|---|-------------------------|-----------|---------|-----------------|---------------------------|-------------|--------------------------|--------------------|----------------|--------------|---------------|---------------------|------------------------|-----------------------|---------------------|------------------|----------------------|---------------|
| | | Installed | Decom. | | Northing | Easting | Monitoring Point | Surface Casing Rim | Ground Surface | | | | | Below Ground | Below Top of Casing | | | |
| | | AS-25 | BID735 | | 10/15/14 | -- | HSA | 164,993.3 | 1,268,503.1 | | | | | -- | 311.33 | | | |
| AS-26 | BID738 | 10/16/14 | -- | HSA | 165,018.0 | 1,268,497.2 | -- | 310.75 | -- | PES, 08/2015 | Flush | 55.5 | 2 | 53.10-54.14 | 52.7-53.74 | 0.020 | 52-55.5 | 4-52 |
| AS-27 | BID741 | 10/17/14 | -- | HSA | 165,047.3 | 1,268,497.3 | -- | 310.99 | -- | PES, 08/2015 | Flush | 55.5 | 2 | 53.10-55.14 | 52.7-54.74 | 0.020 | 52-55.5 | 4-52 |
| AS-28 | BID706 | 9/22/14 | -- | HSA | 165,077.4 | 1,268,498.9 | -- | 308.11 | -- | PES, 08/2015 | Flush | 50.5 | 2 | 47.94-49.88 | 47.54-49.48 | 0.020 | 47.5-50.5 | 3.5-47.5 |
| AS-29 | BID707 | 9/23/14 | -- | HSA | 165,098.0 | 1,268,498.4 | -- | 307.74 | -- | PES, 08/2015 | Flush | 51 | 2 | 48.10-50.08 | 47.7-49.68 | 0.020 | 47-51 | 3.3-47 |
| AS-30 | BID711 | 9/25/14 | -- | HSA | 165,100.2 | 1,268,516.2 | -- | 307.36 | -- | PES, 08/2015 | Flush | 52 | 2 | 48.24-50.24 | 47.84-49.84 | 0.020 | 46.8-52 | 3.8-46.8 |
| AS-31 | BID712 | 9/26/14 | -- | HSA | 165,098.2 | 1,268,535.6 | -- | 308.10 | -- | PES, 08/2015 | Flush | 52.5 | 2 | 48.86-50.89 | 48.46-50.49 | 0.020 | 47.6-52.5 | 3.5-47.6 |
| Supplemental Investigation Borings | | | | | | | | | | | | | | | | | | |
| SB-10 | NA | 4/16/18 | 4/16/18 | DP | 164,837.8 | 1,268,523.0 | -- | -- | 313.30 | PES, 05/2018 | -- | 11 | 2.25 | -- | -- | -- | -- | -- |
| SB-11 | NA | 4/16/18 | 4/16/18 | DP | 164,831.3 | 1,268,470.8 | -- | -- | 310.59 | PES, 05/2018 | -- | 15 | 2.25 | -- | -- | -- | -- | -- |
| SB-12 | NA | 4/16/18 | 4/16/18 | DP | 164,812.7 | 1,268,480.9 | -- | -- | 311.18 | PES, 05/2018 | -- | 11 | 2.25 | -- | -- | -- | -- | -- |
| SB-13 | NA | 4/16/18 | 4/16/18 | DP | 165,056.3 | 1,268,696.8 | -- | -- | 313.34 | PES, 05/2018 | -- | 29 | 2.25 | -- | -- | -- | -- | -- |
| SB-13A | NA | 4/25/18 | 4/25/18 | DP | 165,055.2 | 1,268,697.2 | -- | -- | 313.38 | PES, 05/2018 | -- | 33 | 2.25 | -- | -- | -- | -- | -- |
| SB-13B | NA | 4/25/18 | 4/25/18 | DP | 165,067.3 | 1,268,697.4 | -- | -- | 309.32 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-14 | NA | 4/16/18 | 4/16/18 | DP | 165,056.3 | 1,268,717.0 | -- | -- | 313.60 | PES, 05/2018 | -- | 31.5 | 2.25 | -- | -- | -- | -- | -- |
| SB-14A | NA | 4/25/18 | 4/25/18 | DP | 165,056.2 | 1,268,717.8 | -- | -- | 313.60 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-15 | NA | 4/17/18 | 4/17/18 | DP | 165,078.3 | 1,268,721.7 | -- | -- | 310.28 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-16 | NA | 4/17/18 | 4/17/18 | DP | 165,172.1 | 1,268,822.2 | -- | -- | 310.61 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-17 | NA | 4/18/18 | 4/18/18 | DP | 165,175.7 | 1,268,798.0 | -- | -- | 310.03 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-18 | NA | 4/18/18 | 4/18/18 | DP | 165,201.4 | 1,268,799.7 | -- | -- | 309.93 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-19 | NA | 4/19/18 | 4/19/18 | DP | 165,132.6 | 1,268,649.4 | -- | -- | 308.76 | PES, 05/2018 | -- | 40 | 2.25 | 36-40 | -- | 0.004 | -- | -- |
| SB-20 | NA | 4/19/18 | 4/19/18 | DP | 165,154.5 | 1,268,680.2 | -- | -- | 309.00 | PES, 05/2018 | -- | 40 | 2.25 | 36-40 | -- | 0.004 | -- | -- |
| SB-21 | NA | 4/19/18 | 4/19/18 | DP | 165,187.4 | 1,268,742.4 | -- | -- | 309.65 | PES, 05/2018 | -- | 40 | 2.25 | 36-40 | -- | 0.004 | -- | -- |
| SB-22 | NA | 4/20/18 | 4/20/18 | DP | 165,173.0 | 1,268,709.8 | -- | -- | 309.07 | PES, 05/2018 | -- | 40 | 2.25 | 36-40 | -- | 0.004 | -- | -- |
| SB-23 | NA | 4/20/18 | 4/20/18 | DP | 165,109.3 | 1,268,725.1 | -- | -- | 309.76 | PES, 05/2018 | -- | 40 | 2.25 | 36-40 | -- | 0.004 | -- | -- |
| SB-24 | NA | 4/23/18 | 4/23/18 | DP | 165,113.2 | 1,268,695.3 | -- | -- | 310.24 | PES, 05/2018 | -- | 40 | 2.25 | 36-40 | -- | 0.004 | -- | -- |
| SB-25 | NA | 4/23/18 | 4/23/18 | DP | 165,107.6 | 1,268,755.1 | -- | -- | 310.27 | PES, 05/2018 | -- | 40 | 2.25 | 36-40 | -- | 0.004 | -- | -- |
| SB-26 | NA | 4/24/18 | 4/24/18 | DP | 165,177.8 | 1,268,857.4 | -- | -- | 312.30 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-27 | NA | 4/24/18 | 4/24/18 | DP | 165,166.7 | 1,268,856.4 | -- | -- | 311.62 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-28 | NA | 4/24/18 | 4/24/18 | DP | 165,209.6 | 1,268,850.2 | -- | -- | 310.94 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| SB-29 | NA | 4/24/18 | 4/24/18 | DP | 165,116.8 | 1,268,669.9 | -- | -- | 309.39 | PES, 05/2018 | -- | 40 | 2.25 | 36-40 | -- | 0.004 | -- | -- |
| SB-30 | NA | 4/25/18 | 4/25/18 | DP | 165,196.5 | 1,268,529.1 | -- | -- | 304.82 | PES, 05/2018 | -- | 40 | 2.25 | -- | -- | -- | -- | -- |
| Decommissioned Monitoring Wells | | | | | | | | | | | | | | | | | | |
| MW-1 | -- | 12/9/99 | 9/6/22 | HSA | 165,180.1 | 1,268,830.5 | 310.63 | 310.89 | 310.81 | PES 03/2021 | Flush | 44 | 2 | 34-44 | -- | 0.020 | est. 32-44 | 0-est. 32 |
| MW-2 | -- | 12/9/99 | 9/6/22 | HSA | 165,149.8 | 1,268,724.6 | 308.34 | 309.13 | 309.12 | PES, 08/2015 | Flush | 43 | 2 | 33-43 | 32.22-42.22 | 0.020 | est. 31-43 | 0-est. 31 |
| MW-3 | BAB 465 | 4/8/08 | 9/7/22 | HSA | 164,857.2 | 1,268,511.5 | 311.41 | 311.76 | 311.74 | PES, 08/2015 | Flush | 47 | 2 | 36-46 | 35.67-45.67 | 0.010 | 34-46 | 0-34 |
| MW-5 | BAB 464 | 4/8/08 | 9/6/22 | HSA | 165,331.6 | 1,268,938.6 | 310.38 | 310.84 | -- | PES, 08/2015 | Flush | 46 | 2 | 36-46 | 35.6-45.6 | 0.010 | 34-46 | 0-34 |
| MW-8 | APE 295 | 8/18/08 | 9/8/22 | HSA | 165,681.2 | 1,268,349.8 | 280.68 | 281.05 | 280.97 | PES, 08/2015 | Flush | 26 | 2 | 13-23 | 12.71-22.71 | 0.010 | 11-23 | 0-11 |
| MW-12 | BHL 051 | 3/28/12 | 9/7/22 | HSA | 164,825.0 | 1,268,516.1 | 312.80 | 313.12 | 313.10 | PES, 08/2015 | Flush | 46.5 | 2 | 36-46 | 35.7-45.7 | 0.010 | 34-46.5 | 0-34 |
| MW-13 | BHL 053 | 3/29/12 | 9/7/22 | HSA | 165,036.5 | 1,268,459.8 | 308.75 | 309.16 | 309.17 | PES, 08/2015 | Flush | 46.5 | 2 | 35-45 | 34.58-44.58 | 0.010 | 33-45 | 0-33 |
| MW-14 | BHL 054 | 3/27/12 | 9/7/22 | HSA | 165,261.1 | 1,268,564.6 | 303.82 | 304.24 | -- | PES, 02/2013 | Flush | 38 | 2 | 28-38 | 27.6-37.6 | 0.010 | 26-38 | 0-26 |
| MW-15 | BHL 052 | 3/28/12 | 9/6/22 | HSA | 165,103.9 | 1,268,678.7 | 312.44 | 312.81 | 310.30 | PES, 02/2013 | AG | 46.5 | 2 | 35-45 | 37.14-47.14 | 0.010 | 33-45.5 | 0-33 |
| MW-16 | BHU 646 | 5/16/13 | 9/6/22 | HSA | 165,164.5 | 1,268,613.3 | 310.37 | 311.21 | 307.92 | PES, 05/2013 | AG | 43 | 2 | 27.2-42.2 | 29.45-44.65 | 0.020 | 25-43 | 0-25 |
| MW-19 | BLK 427 | 10/17/19 | 9/7/22 | HSA | 165,346.1 | 1,268,663.1 | 305.35 | 305.77 | 305.90 | PES, 10/2019 | Flush | 55.5 | 2 | 43.9-53.9 | 43.35-53.35 | 0.010 | 42-55 | 0-42 |
| DC-1 | AEE 921 | 10/12/98 | 9/7/22 | HSA | 164,940.2 | 1,268,698.6 | 312.82 | 313.34 | -- | PES, 02/2013 | Flush | 47 | 2 | 40-45 | 39.5-44.5 | 0.020 | 37-47 | 0-37 |
| DC-2 | AEE 924 | 10/13/98 | 9/7/22 | HSA | 165,055.6 | 1,268,655.1 | 312.92 | 313.61 | 313.70 | PES, 08/2015 | Flush | 50 | 2 | 42-47 | 41.22-46.22 | 0.020 | 40-50 | 0-40 |
| DC-3 | AEE 925 | 10/13/98 | 9/7/22 | HSA | 165,056.4 | 1,268,607.7 | 313.11 | 313.68 | 313.79 | PES, 08/2015 | Flush | 48 | 2 | 43-48 | 42.32-47.32 | 0.020 | 41-48 | 0-41 |
| DC-5 | -- | 1/22/99 | 9/7/22 | HSA | 165,166.5 | 1,268,526.9 | 306.03 | 306.28 | 306.24 | PES, 08/2015 | Flush | 58.5 | 2 | 41-46 | 40.79-45.79 | 0.020 | 39-47 | 0-39 |
| DC-10B | AER 679 | 4/6/99 | 9/6/22 | HSA | 165,120.4 | 1,268,497.5 | 307.80 | 308.29 | 307.89 | PES, 08/2015 | Flush | 56 | 2 | 45-50 | 44.91-49.91 | 0.020 | 43-50 | 0-43 |

**Table C1
Well Completion and Boring Details
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Well | Ecology Well Tag Number | Date | | Drilling Method | Location (feet NAD 83/91) | | Elevation (feet NAVD 88) | | | Survey Date | Monument Type | Boring Depth (feet) | Well Diameter (inches) | Screen Depth (ft bgs) | | Slot Size (inch) | Filter Pack (ft bgs) | Seal (ft bgs) |
|--|-------------------------|-----------|--------|-----------------|---------------------------|-------------|--------------------------|--------------------|----------------|--------------|---------------|---------------------|------------------------|-----------------------|---------------------|------------------|----------------------|-----------------|
| | | Installed | Decom. | | Northing | Easting | Monitoring Point | Surface Casing Rim | Ground Surface | | | | | Below Ground | Below Top of Casing | | | |
| | | | | | | | | | | | | | | | | | | |
| DC-11 | APS 771 | 4/19/07 | 9/6/22 | HSA | 165,078.5 | 1,268,816.1 | 311.25 | 311.66 | -- | PES, 02/2013 | Flush | 42 | 2 | 32-42 | 31.6-41.6 | 0.010 | 30-42 | 0-30 |
| DC-12 | APS 772 | 4/18/07 | 9/6/22 | HSA | 165,179.8 | 1,268,852.1 | 311.22 | 311.81 | 311.73 | PES 03/2021 | Flush | 42 | 2 | 32-42 | 31.7-41.7 | 0.010 | 30-42 | 0-30 |
| DC-13 | APS 773 | 4/19/07 | 9/6/22 | HSA | 165,208.9 | 1,268,827.2 | 310.20 | 310.52 | -- | PES, 02/2013 | Flush | 42 | 2 | 32-42 | 31.7-41.7 | 0.010 | 30-42 | 0-30 |
| DC-14 | APS 769 | 4/17/07 | 3/1/19 | HSA | 165,355.0 | 1,268,812.6 | 308.94 | 309.49 | -- | PES, 02/2013 | Flush | 45 | 2 | 35-45 | 34.4-44.4 | 0.010 | 33-45 | 0-33 |
| DC-16 | APS 770 | 4/18/07 | 9/6/22 | HSA | 165,169.7 | 1,268,611.5 | 307.12 | 307.79 | -- | PES, 02/2013 | Flush | 61.5 | 2 | 50-60 | 49.3-59.3 | 0.010 | 50-60 | 0-50 |
| DC-18 | APS 308 | 4/18/07 | 9/6/22 | HSA | 165,197.1 | 1,268,765.0 | 309.51 | 309.95 | 309.93 | PES, 08/2015 | Flush | 42 | 2 | 32-42 | 31.58-41.58 | 0.010 | 30-42 | 0-30 |
| DC-19 | -- | 6/1/07 | 9/7/22 | HSA | 165,039.3 | 1,268,829.6 | 313.62 | 313.82 | -- | PES, 02/2013 | Flush | 47 | 2 | 37-47 | 36.8-46.8 | 0.010 | 35-47 | 0-35 |
| DC-20 | BAR 534 | 5/28/08 | 9/6/22 | HSA | 165,237.2 | 1,268,854.8 | 310.92 | 311.13 | -- | PES, 02/2013 | Flush | 44 | 2 | 34-44 | 33.8-43.8 | 0.020 | 32-44 | 0-32 |
| KMW-1 | -- | 7/25/05 | 9/6/22 | HSA | 165,245.9 | 1,268,892.6 | 311.59 | 311.82 | -- | PES, 08/2015 | Flush | 52 | 2 | 37-52 | 36.8-51.8 | 0.010 | 34-52 | 0-34 |
| KMW-2 | APK 570 | 5/1/06 | 9/6/22 | HSA | 165,111.7 | 1,268,531.0 | 307.04 | 307.27 | 307.13 | PES, 08/2015 | Flush | 50 | 2 | 30-40 | 29.91-39.91 | 0.010 | 8-40 | 0-8 |
| KMW-4 | APS 347 | 3/28/07 | 9/8/22 | HSA | 165,175.7 | 1,268,369.8 | 299.57 | 299.84 | 299.78 | PES, 08/2015 | Flush | 34 | 2 | 24-34 | 23.79-33.79 | 0.020 | 23-34 | 0-22 |
| KMW-5 | APS 346 | 3/28/07 | 9/8/22 | HSA | 165,267.7 | 1,268,380.4 | 297.22 | 297.58 | 297.56 | PES, 08/2015 | Flush | 34 | 2 | 24-34 | 23.66-33.66 | 0.020 | 22-34 | 0-22 |
| KMW-5D | APS 345 | 3/28/07 | 9/8/22 | HSA | 165,276.5 | 1,268,382.0 | 297.04 | 297.35 | 297.32 | PES, 08/2015 | Flush | 46 | 2 | 41-46 | 40.72-45.72 | 0.020 | 41-46 | 0-41 |
| KMW-6 | APS 343 | 3/27/07 | 9/8/22 | HSA | 165,391.1 | 1,268,399.1 | 294.80 | 295.27 | 295.20 | PES, 10/2019 | Flush | 42.5 | 2 | 26.18-41.18 | 25.78-40.78 | 0.020 | 22-41 | 0-22 |
| KMW-9 | APS 344 | 3/27/07 | 9/6/22 | HSA | 165,079.0 | 1,268,726.3 | 310.33 | 310.83 | 310.83 | PES, 08/2015 | Flush | 44 | 2 | 34-44 | 33.5-43.5 | 0.020 | 32-44 | 0-32 |
| Former SCS Soil Vapor Extraction Wells (1999) | | | | | | | | | | | | | | | | | | |
| VES-1 (B1) | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 11.5 | 2 | 3-11 | -- | 0.020 | 2.5-11.5 | 1.5-2.5 |
| VES-2A | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 6.5 | 2 | 3-6 | -- | 0.020 | 2.5-6.5 | 1.5-2.5 |
| VES-2B | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 36 | 2 | 11.5-35.5 | -- | 0.020 | 7.5-36 | 1.5-2.5/6.5-7.5 |
| VES-3 (BH-15) | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 6.5 | 2 | 3-6 | -- | 0.020 | 2.5-6.5 | 1.5-2.5 |
| VES-4 (BH-16) | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 6.5 | 2 | 3-6 | -- | 0.020 | 2.5-6.5 | 1.5-2.5 |
| VES-5 (BH-17) | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 6.5 | 2 | 3-6 | -- | 0.010 | 2.5-6.5 | 1.5-2.5 |
| VES-6A (BH-1) | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 6.5 | 2 | 3-6 | -- | 0.020 | 2.5-6.5 | 1.5-2.5 |
| VES-6B (BH-1) | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 36 | 2 | 11.5-35.5 | -- | 0.020 | 7.5-36 | 1.5-2.5/6.5-7.5 |
| VES-7 | -- | 1999 | 2000 | -- | -- | -- | -- | -- | -- | -- | Flush | 6.5 | 2 | 3-6 | -- | 0.020 | 2.5-6.5 | 1.5-2.5 |
| Notes: | | | | | | | | | | | | | | | | | | |
| 1. Northing and easting in feet relative to the Washington State Plane System North Zone (NAD 83/91) | | | | | | | | | | | | | | | | | | |
| 2. Elevations in feet relative to the North American Vertical Datum (NAVD 88) | | | | | | | | | | | | | | | | | | |
| 3. Monitoring point = top of the PVC well casing | | | | | | | | | | | | | | | | | | |
| 4. All depths shown in feet below ground surface (ft bgs) | | | | | | | | | | | | | | | | | | |
| 5. All wells completed with Schedule 40 PVC with the exception of AS-1 (Schedule 80 PVC) | | | | | | | | | | | | | | | | | | |
| 6. Drilling methods include hollow stem auger (HSA), direct push (DP), vacuum truck with air knife (AKVAC), and hand augered (HA) | | | | | | | | | | | | | | | | | | |
| 7. '--' = not documented or unknown | | | | | | | | | | | | | | | | | | |
| 8. Surface elevations for the direct push borings represents ground surface adjacent to the boring | | | | | | | | | | | | | | | | | | |
| 9. Screened intervals are documented on boring logs and are typically based on a field measurements relative to ground surface at the time of drilling. Screened intervals relative to top of casing are estimated using well field construction measurements, surveyed top of casing elevations, surveyed ground surface elevations, and in some cases surveyed monument rim elevations. If ground or rim elevations are not surveyed, then top of casing is assumed to be 0.4 ft depth. | | | | | | | | | | | | | | | | | | |
| 10. Monitoring wells DC-6, DC-9A, DC-9B are missing or destroyed. The 1999 SCS VES wells have been decommissioned. | | | | | | | | | | | | | | | | | | |
| 11. Temporary well screens consisting of Geoprobe SP22 stainless steel slotted tooling were deployed in direct push borings SB-19 through SB-25 and SB-29. | | | | | | | | | | | | | | | | | | |
| 12. Soil vapor sampling probe screens are constructed of fine metal mesh. | | | | | | | | | | | | | | | | | | |
| 13. Soil vapor extraction wells SVE-24 and SVE-25 were installed at a 45 degree angle. The wells were cut off 4 feet below ground surface and the casings extended vertically. Depth intervals have been converted from length along the boring by dividing by 1.41. | | | | | | | | | | | | | | | | | | |
| 14. A total of 30 monitoring wells were decommissioned on 9/6 - 9/8/2022. MW-1, MW-2, and DC-5 were drilled out. The remaining wells were chipped up and decommissioned in place including MW-3, MW-5, MW-8, MW-12, MW-13, MW-14, MW-15, MW-16, MW-19, DC-1, DC-2, DC-3, DC-10B, DC-11, DC-12, DC-13, DC-16, DC-18, DC-19, DC-20, KMW-1, KMW-3, KMW-4, KMW-5, KMW-5D, KMW-6, and KMW-9. | | | | | | | | | | | | | | | | | | |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| MW-1 | 12/10/1999 | 309.97 | 37.44 | 272.53 |
| MW-1 | 2/9/2005 | 309.97 | 39.52 | 270.45 |
| MW-1 | 4/11/2006 | 309.97 | 37.78 | 272.19 |
| MW-1 | 10/26/2006 | 309.97 | 39.22 | 270.75 |
| MW-1 | 4/24/2007 | 309.97 | 36.61 | 273.36 |
| MW-1 | 8/21/2008 | 309.97 | 37.32 | 272.65 |
| | | | | |
| MW-2 | 12/10/1999 | 307.69 | 35.60 | 272.09 |
| MW-2 | 11/5/2010 | 307.69 | 37.03 | 270.66 |
| MW-2 | 2/11/2011 | 307.69 | 35.81 | 271.88 |
| MW-2 | 5/30/2011 | 307.69 | 34.40 | 273.29 |
| MW-2 | 7/19/2011 | 307.69 | 34.71 | 272.98 |
| MW-2 | 10/17/2011 | 307.69 | 35.80 | 271.89 |
| MW-2 | 4/2/2012 | 307.69 | 36.11 | 271.58 |
| MW-2 | 5/28/2013 | 308.56 | 35.73 | 272.83 |
| MW-2 | 4/14/2014 | 308.56 | 36.17 | 272.39 |
| MW-2 | 10/21/2014 | 308.34 | 36.48 | 271.86 |
| MW-2 | 12/11/2015 | 308.34 | 36.89 | 271.45 |
| MW-2 | 12/13/2016 | 308.34 | 36.09 | 272.25 |
| MW-2 | 3/13/2017 | 308.34 | 34.93 | 273.41 |
| MW-2 | 7/17/2017 | 308.34 | 33.97 | 274.37 |
| MW-2 | 10/20/2017 | 308.34 | 35.45 | 272.89 |
| MW-2 | 1/24/2018 | 308.34 | 35.61 | 272.73 |
| MW-2 | 4/17/2018 | 308.34 | 34.93 | 273.41 |
| MW-2 | 7/18/2018 | 308.34 | 35.12 | 273.22 |
| MW-2 | 10/15/2018 | 308.34 | 36.26 | 272.08 |
| MW-2 | 10/24/2019 | 308.34 | 37.20 | 271.14 |
| MW-2 | 12/7/2021 | 308.34 | 37.05 | 271.29 |
| | | | | |
| MW-3 | 8/21/2008 | 311.49 | 39.77 | 271.72 |
| MW-3 | 11/5/2010 | 311.49 | 39.43 | 272.06 |
| MW-3 | 2/11/2011 | 311.49 | 38.10 | 273.39 |
| MW-3 | 5/30/2011 | 311.49 | 36.66 | 274.83 |
| MW-3 | 7/19/2011 | 311.49 | 37.03 | 274.46 |
| MW-3 | 10/17/2011 | 311.49 | 38.18 | 273.31 |
| MW-3 | 4/2/2012 | 311.49 | 38.39 | 273.10 |
| MW-3 | 5/28/2013 | 311.62 | 38.09 | 273.53 |
| MW-3 | 10/21/2014 | 311.41 | 38.91 | 272.50 |
| MW-3 | 12/9/2015 | 311.41 | 39.28 | 272.13 |
| MW-3 | 12/13/2016 | 311.41 | 38.44 | 272.97 |
| MW-3 | 3/13/2017 | 311.41 | 37.09 | 274.32 |
| MW-3 | 7/17/2017 | 311.41 | 36.21 | 275.20 |
| MW-3 | 10/20/2017 | 311.41 | 37.61 | 273.80 |
| MW-3 | 1/24/2018 | 311.41 | 37.73 | 273.68 |
| MW-3 | 4/17/2018 | 311.41 | 37.24 | 274.17 |
| MW-3 | 7/18/2018 | 311.41 | 37.52 | 273.89 |
| MW-3 | 10/15/2018 | 311.41 | 38.68 | 272.73 |
| MW-3 | 10/24/2019 | 311.41 | 39.68 | 271.73 |

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Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| MW-3 | 12/7/2021 | 311.41 | 39.34 | 272.07 |
| MW-4 | 11/5/2010 | 310.54 | 38.74 | 271.80 |
| MW-4 | 2/11/2011 | 310.54 | 37.41 | 273.13 |
| MW-4 | 5/30/2011 | 310.54 | 35.99 | 274.55 |
| MW-4 | 7/19/2011 | 310.54 | 36.37 | 274.17 |
| MW-4 | 10/17/2011 | 310.54 | 37.50 | 273.04 |
| MW-4 | 4/2/2012 | 310.54 | 37.67 | 272.87 |
| MW-4 | 5/28/2013 | 310.68 | 37.40 | 273.28 |
| MW-4 | 10/21/2014 | 310.47 | 38.13 | 272.34 |
| MW-4 | 12/9/2015 | 310.47 | 38.60 | 271.87 |
| MW-4 | 12/13/2016 | 310.47 | 37.36 | 273.11 |
| MW-4 | 3/13/2017 | 310.47 | 36.42 | 274.05 |
| MW-4 | 7/17/2017 | 310.47 | 35.59 | 274.88 |
| MW-4 | 10/20/2017 | 310.47 | 37.17 | 273.30 |
| MW-4 | 1/24/2018 | 310.47 | 37.04 | 273.43 |
| MW-4 | 4/17/2018 | 310.47 | 36.59 | 273.88 |
| MW-4 | 7/18/2018 | 310.47 | 36.86 | 273.61 |
| MW-4 | 10/15/2018 | 310.47 | 38.01 | 272.46 |
| MW-4 | 10/24/2019 | 310.47 | 39.00 | 271.47 |
| MW-4 | 12/7/2021 | 310.47 | 38.84 | 271.63 |
| MW-5 | 8/21/2008 | 310.28 | 39.96 | 270.32 |
| MW-5 | 11/5/2010 | 310.28 | 39.73 | 270.55 |
| MW-5 | 2/11/2011 | 310.28 | 38.60 | 271.68 |
| MW-5 | 5/30/2011 | 310.28 | 37.24 | 273.04 |
| MW-5 | 7/19/2011 | 310.28 | 37.51 | 272.77 |
| MW-5 | 10/17/2011 | 310.28 | 38.54 | 271.74 |
| MW-5 | 4/2/2012 | 310.28 | 38.90 | 271.38 |
| MW-5 | 10/21/2014 | 310.38 | 39.17 | 271.21 |
| MW-5 | 12/9/2015 | 310.38 | 39.69 | 270.69 |
| MW-5 | 12/13/2016 | 310.38 | 38.80 | 271.58 |
| MW-5 | 3/13/2017 | 310.38 | 37.80 | 272.58 |
| MW-5 | 7/17/2017 | 310.38 | 36.80 | 273.58 |
| MW-5 | 10/20/2017 | 310.38 | 38.17 | 272.21 |
| MW-5 | 1/24/2018 | 310.38 | 38.60 | 271.78 |
| MW-5 | 4/17/2018 | 310.38 | 37.71 | 272.67 |
| MW-5 | 7/18/2018 | 310.38 | 37.89 | 272.49 |
| MW-5 | 10/15/2018 | 310.38 | 38.92 | 271.46 |
| MW-5 | 10/24/2019 | 310.38 | 39.85 | 270.53 |
| MW-6 | 8/21/2008 | 304.27 | 37.46 | 266.81 |
| MW-6 | 11/5/2010 | 304.27 | 37.25 | 267.02 |
| MW-6 | 2/11/2011 | 304.27 | 36.30 | 267.97 |
| MW-6 | 5/30/2011 | 304.27 | 35.50 | 268.77 |
| MW-6 | 7/19/2011 | 304.27 | 35.38 | 268.89 |
| MW-6 | 10/17/2011 | 304.27 | 36.24 | 268.03 |
| MW-6 | 4/2/2012 | 304.27 | 36.53 | 267.74 |

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 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| MW-6 | 10/21/2014 | 304.14 | 37.79 | 266.35 |
| MW-6 | 12/9/2015 | 304.14 | 37.22 | 266.92 |
| MW-6 | 12/13/2016 | 304.14 | 36.49 | 267.65 |
| MW-6 | 3/13/2017 | 304.14 | 35.68 | 268.46 |
| MW-6 | 7/17/2017 | 304.14 | 34.79 | 269.35 |
| MW-6 | 10/20/2017 | 304.14 | 38.24 | 265.90 |
| MW-6 | 1/24/2018 | 304.14 | 36.08 | 268.06 |
| MW-6 | 4/17/2018 | 304.14 | 35.61 | 268.53 |
| MW-6 | 7/18/2018 | 304.14 | 35.71 | 268.43 |
| MW-6 | 10/15/2018 | 304.14 | 36.58 | 267.56 |
| MW-6 | 10/25/2019 | 304.14 | 37.37 | 266.77 |
| | | | | |
| MW-7 | 8/21/2008 | 302.76 | 39.00 | 263.76 |
| MW-7 | 11/5/2010 | 302.76 | 38.74 | 264.02 |
| MW-7 | 2/11/2011 | 302.76 | 37.61 | 265.15 |
| MW-7 | 5/30/2011 | 302.76 | 36.09 | 266.67 |
| MW-7 | 7/19/2011 | 302.76 | 36.43 | 266.33 |
| MW-7 | 10/17/2011 | 302.76 | 37.43 | 265.33 |
| MW-7 | 4/2/2012 | 302.76 | 37.52 | 265.24 |
| MW-7 | 5/28/2013 | 302.76 | 37.48 | 265.28 |
| MW-7 | 10/30/2014 | 302.64 | 35.80 | 266.84 |
| MW-7 | 12/9/2015 | 302.64 | 38.75 | 263.89 |
| MW-7 | 12/13/2016 | 302.64 | 37.79 | 264.85 |
| MW-7 | 3/13/2017 | 302.64 | 36.79 | 265.85 |
| MW-7 | 7/17/2017 | 302.64 | 35.75 | 266.89 |
| MW-7 | 10/20/2017 | 302.64 | 37.16 | 265.48 |
| MW-7 | 1/24/2018 | 302.64 | 37.33 | 265.31 |
| MW-7 | 4/17/2018 | 302.64 | 36.79 | 265.85 |
| MW-7 | 7/18/2018 | 302.64 | 37.00 | 265.64 |
| MW-7 | 10/23/2018 | 302.64 | 38.15 | 264.49 |
| MW-7 | 10/25/2019 | 302.64 | 39.04 | 263.60 |
| MW-7 | 12/7/2021 | 302.64 | 38.78 | 263.86 |
| | | | | |
| MW-8 | 8/21/2008 | 280.08 | 12.78 | 267.30 |
| MW-8 | 2/11/2011 | 280.08 | 11.11 | 268.97 |
| MW-8 | 5/30/2011 | 280.08 | 10.20 | 269.88 |
| MW-8 | 7/19/2011 | 280.08 | 10.66 | 269.42 |
| MW-8 | 10/17/2011 | 280.08 | 11.52 | 268.56 |
| MW-8 | 4/2/2012 | 280.08 | 11.09 | 268.99 |
| MW-8 | 10/21/2014 | 280.68 | 12.12 | 268.56 |
| MW-8 | 12/9/2015 | 280.68 | 11.81 | 268.87 |
| MW-8 | 12/13/2016 | 280.68 | 11.40 | 269.28 |
| MW-8 | 3/13/2017 | 280.68 | 10.30 | 270.38 |
| MW-8 | 7/17/2017 | 280.68 | 10.26 | 270.42 |
| MW-8 | 10/20/2017 | 280.68 | 10.25 | 270.43 |
| MW-8 | 1/24/2018 | 280.68 | 10.80 | 269.88 |
| MW-8 | 4/17/2018 | 280.68 | 10.50 | 270.18 |
| MW-8 | 7/18/2018 | 280.68 | 11.22 | 269.46 |

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Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| MW-8 | 10/16/2018 | 280.68 | 12.09 | 268.59 |
| MW-8 | 10/25/2019 | 280.68 | 12.74 | 267.94 |
| MW-9 | 8/21/2008 | 285.11 | 32.24 | 252.87 |
| MW-9 | 11/5/2010 | 285.11 | 31.98 | 253.13 |
| MW-9 | 2/11/2011 | 285.11 | 30.93 | 254.18 |
| MW-9 | 5/30/2011 | 285.11 | 29.76 | 255.35 |
| MW-9 | 7/19/2011 | 285.11 | 30.12 | 254.99 |
| MW-9 | 10/17/2011 | 285.11 | 31.04 | 254.07 |
| MW-9 | 4/2/2012 | 285.11 | 31.05 | 254.06 |
| MW-9 | 10/21/2014 | 284.97 | 31.68 | 253.29 |
| MW-9 | 12/9/2015 | 284.97 | 32.06 | 252.91 |
| MW-9 | 12/13/2016 | 284.97 | 31.24 | 253.73 |
| MW-9 | 3/13/2017 | 284.97 | 30.20 | 254.77 |
| MW-9 | 7/17/2017 | 284.97 | 29.59 | 255.38 |
| MW-9 | 10/20/2017 | 284.97 | 30.75 | 254.22 |
| MW-9 | 1/24/2018 | 284.97 | 30.84 | 254.13 |
| MW-9 | 4/17/2018 | 284.97 | 30.43 | 254.54 |
| MW-9 | 7/18/2018 | 284.97 | 30.60 | 254.37 |
| MW-9 | 10/16/2018 | 284.97 | 31.40 | 253.57 |
| MW-9 | 10/25/2019 | 284.97 | 32.22 | 252.75 |
| MW-9 | 12/7/2021 | 284.97 | 32.11 | 252.86 |
| MW-10 | 2/11/2011 | 306.70 | 34.04 | 272.66 |
| MW-10 | 5/30/2011 | 306.70 | 32.69 | 274.01 |
| MW-10 | 7/19/2011 | 306.70 | 33.05 | 273.65 |
| MW-10 | 10/17/2011 | 306.70 | 34.13 | 272.57 |
| MW-10 | 4/2/2012 | 306.70 | 34.31 | 272.39 |
| MW-10 | 5/28/2013 | 306.91 | 34.03 | 272.88 |
| MW-10 | 10/21/2014 | 306.71 | 34.81 | 271.90 |
| MW-10 | 12/9/2015 | 306.71 | 35.22 | 271.49 |
| MW-10 | 12/13/2016 | 306.71 | 34.41 | 272.30 |
| MW-10 | 3/13/2017 | 306.71 | 33.15 | 273.56 |
| MW-10 | 7/17/2017 | 306.71 | 32.34 | 274.37 |
| MW-10 | 10/20/2017 | 306.71 | 33.82 | 272.89 |
| MW-10 | 1/24/2018 | 306.71 | 33.82 | 272.89 |
| MW-10 | 4/17/2018 | 306.71 | 33.30 | 273.41 |
| MW-10 | 7/18/2018 | 306.71 | 33.55 | 273.16 |
| MW-10 | 10/15/2018 | 306.71 | 34.66 | 272.05 |
| MW-10 | 5/21/2019 | 306.71 | 34.62 | 272.09 |
| MW-10 | 10/24/2019 | 306.71 | 35.62 | 271.09 |
| MW-10 | 12/7/2021 | 306.71 | 35.32 | 271.39 |
| MW-11 | 2/11/2011 | 307.63 | 35.01 | 272.62 |
| MW-11 | 5/30/2011 | 307.63 | 33.63 | 274.00 |
| MW-11 | 7/19/2011 | 307.63 | 33.97 | 273.66 |
| MW-11 | 10/17/2011 | 307.63 | 35.05 | 272.58 |
| MW-11 | 4/2/2012 | 307.63 | 35.29 | 272.34 |

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 Historical Summary of Groundwater Elevations (1999 - 2021)
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 Normandy Park, Washington**

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| MW-11 | 5/28/2013 | 307.85 | 34.98 | 272.87 |
| MW-11 | 10/21/2014 | 307.62 | 35.78 | 271.84 |
| MW-11 | 12/9/2015 | 307.62 | 36.16 | 271.46 |
| MW-11 | 12/13/2016 | 307.62 | 35.33 | 272.29 |
| MW-11 | 3/13/2017 | 307.62 | 34.11 | 273.51 |
| MW-11 | 7/17/2017 | 307.62 | 33.25 | 274.37 |
| MW-11 | 10/20/2017 | 307.62 | 34.74 | 272.88 |
| MW-11 | 1/24/2018 | 307.62 | 34.77 | 272.85 |
| MW-11 | 4/17/2018 | 307.62 | 34.21 | 273.41 |
| MW-11 | 7/18/2018 | 307.62 | 34.45 | 273.17 |
| MW-11 | 10/19/2018 | 307.62 | 35.61 | 272.01 |
| MW-11 | 5/21/2019 | 307.62 | 35.55 | 272.07 |
| MW-11 | 10/24/2019 | 307.62 | 36.53 | 271.09 |
| MW-11 | 12/7/2021 | 307.62 | 36.27 | 271.35 |
| | | | | |
| MW-12 | 4/2/2012 | 312.92 | 39.69 | 273.23 |
| MW-12 | 5/28/2013 | 312.95 | 39.40 | 273.55 |
| MW-12 | 10/21/2014 | 312.80 | 40.20 | 272.60 |
| MW-12 | 12/9/2015 | 312.80 | 40.59 | 272.21 |
| MW-12 | 12/13/2016 | 312.80 | 39.70 | 273.10 |
| MW-12 | 3/13/2017 | 312.80 | 38.39 | 274.41 |
| MW-12 | 7/17/2017 | 312.80 | 37.47 | 275.33 |
| MW-12 | 10/20/2017 | 312.80 | 39.01 | 273.79 |
| MW-12 | 1/24/2018 | 312.80 | 39.01 | 273.79 |
| MW-12 | 4/17/2018 | 312.80 | 38.49 | 274.31 |
| MW-12 | 7/18/2018 | 312.80 | 38.75 | 274.05 |
| MW-12 | 10/15/2018 | 312.80 | 39.94 | 272.86 |
| MW-12 | 10/24/2019 | 312.80 | 40.96 | 271.84 |
| | | | | |
| MW-13 | 4/2/2012 | 308.88 | 36.04 | 272.84 |
| MW-13 | 5/28/2013 | 308.90 | 35.82 | 273.08 |
| MW-13 | 10/21/2014 | 308.75 | 36.66 | 272.09 |
| MW-13 | 12/9/2015 | 308.75 | 37.00 | 271.75 |
| MW-13 | 12/13/2016 | 308.75 | 36.13 | 272.62 |
| MW-13 | 3/13/2017 | 308.75 | 34.78 | 273.97 |
| MW-13 | 7/17/2017 | 308.75 | 33.99 | 274.76 |
| MW-13 | 10/20/2017 | 308.75 | 35.45 | 273.30 |
| MW-13 | 1/24/2018 | 308.75 | 35.45 | 273.30 |
| MW-13 | 4/17/2018 | 308.75 | 34.98 | 273.77 |
| MW-13 | 7/18/2018 | 308.75 | 35.24 | 273.51 |
| MW-13 | 10/15/2018 | 308.75 | 36.40 | 272.35 |
| MW-13 | 10/24/2019 | 308.75 | 38.40 | 270.35 |
| | | | | |
| MW-14 | 4/2/2012 | 303.78 | 31.84 | 271.94 |
| MW-14 | 5/28/2013 | 303.82 | 31.57 | 272.25 |
| MW-14 | 10/21/2014 | 303.82 | 32.34 | 271.48 |
| MW-14 | 12/11/2015 | 303.82 | 32.65 | 271.17 |
| MW-14 | 12/13/2016 | 303.82 | 31.90 | 271.92 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| MW-14 | 3/13/2017 | 303.82 | 30.73 | 273.09 |
| MW-14 | 7/17/2017 | 303.82 | 29.94 | 273.88 |
| MW-14 | 10/20/2017 | 303.82 | 31.36 | 272.46 |
| MW-14 | 1/24/2018 | 303.82 | 31.33 | 272.49 |
| MW-14 | 4/17/2018 | 303.82 | 30.84 | 272.98 |
| MW-14 | 10/15/2018 | 303.82 | 32.14 | 271.68 |
| MW-14 | 10/24/2019 | 303.82 | 33.08 | 270.74 |
| | | | | |
| MW-15 | 4/2/2012 | 312.40 | 39.92 | 272.48 |
| MW-15 | 5/28/2013 | 312.44 | 39.55 | 272.89 |
| MW-15 | 4/14/2014 | 312.44 | 39.97 | 272.47 |
| MW-15 | 10/21/2014 | 312.44 | 40.31 | 272.13 |
| MW-15 | 12/9/2015 | 312.44 | 40.77 | 271.67 |
| MW-15 | 12/13/2016 | 312.44 | 39.90 | 272.54 |
| MW-15 | 3/13/2017 | 312.44 | 38.72 | 273.72 |
| MW-15 | 7/17/2017 | 312.44 | 37.77 | 274.67 |
| MW-15 | 10/20/2017 | 312.44 | 39.25 | 273.19 |
| MW-15 | 1/24/2018 | 312.44 | 39.31 | 273.13 |
| MW-15 | 4/17/2018 | 312.44 | 38.75 | 273.69 |
| MW-15 | 7/18/2018 | 312.44 | 38.99 | 273.45 |
| MW-15 | 10/15/2018 | 312.44 | 40.08 | 272.36 |
| MW-15 | 10/24/2019 | 312.44 | 41.05 | 271.39 |
| | | | | |
| MW-16 | 5/28/2013 | 310.37 | 37.78 | 272.59 |
| MW-16 | 10/21/2014 | 310.37 | 38.52 | 271.85 |
| MW-16 | 12/9/2015 | 310.37 | 38.96 | 271.41 |
| MW-16 | 12/13/2016 | 310.37 | 38.12 | 272.25 |
| MW-16 | 3/13/2017 | 310.37 | 36.92 | 273.45 |
| MW-16 | 7/17/2017 | 310.37 | 36.04 | 274.33 |
| MW-16 | 10/20/2017 | 310.37 | 37.50 | 272.87 |
| MW-16 | 1/24/2018 | 310.37 | 37.53 | 272.84 |
| MW-16 | 4/17/2018 | 310.37 | 36.99 | 273.38 |
| MW-16 | 7/18/2018 | 310.37 | 37.20 | 273.17 |
| MW-16 | 10/15/2018 | 310.37 | 38.31 | 272.06 |
| MW-16 | 10/24/2019 | 310.37 | 39.20 | 271.17 |
| | | | | |
| MW-17 | 3/6/2019 | 303.00 | 32.33 | 270.67 |
| MW-17 | 10/24/2019 | 303.01 | 33.10 | 269.91 |
| MW-17 | 6/3/2020 | 303.01 | 31.88 | 271.13 |
| MW-17 | 12/10/2021 | 303.01 | 32.78 | 270.23 |
| | | | | |
| MW-18 | 3/6/2019 | 305.26 | 34.55 | 270.71 |
| MW-18 | 10/24/2019 | 305.26 | 35.25 | 270.01 |
| MW-18 | 12/10/2021 | 305.26 | 35.01 | 270.25 |
| | | | | |
| MW-19 | 10/24/2019 | 305.35 | 35.09 | 270.26 |
| MW-19 | 12/4/2019 | 305.35 | 35.36 | 269.99 |
| | | | | |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| MW-20 | 10/24/2019 | 305.51 | 35.22 | 270.29 |
| MW-20 | 12/4/2019 | 305.51 | 35.49 | 270.02 |
| MW-20 | 6/3/2020 | 305.51 | 34.02 | 271.49 |
| MW-20 | 12/8/2021 | 305.51 | 34.98 | 270.53 |
| | | | | |
| DC-1 | 11/14/2000 | 312.46 | 40.29 | 272.17 |
| DC-1 | 3/6/2001 | 312.46 | 41.11 | 271.35 |
| DC-1 | 6/20/2001 | 312.46 | 41.46 | 271.00 |
| DC-1 | 9/17/2001 | 312.46 | 41.78 | 270.68 |
| DC-1 | 12/20/2001 | 312.46 | 41.43 | 271.03 |
| DC-1 | 3/13/2002 | 312.46 | 39.75 | 272.71 |
| DC-1 | 9/17/2002 | 312.46 | 39.75 | 272.71 |
| DC-1 | 12/10/2002 | 312.46 | 40.69 | 271.77 |
| DC-1 | 3/31/2003 | 312.46 | 40.33 | 272.13 |
| DC-1 | 9/3/2003 | 312.46 | 40.69 | 271.77 |
| DC-1 | 3/16/2004 | 312.46 | 39.77 | 272.69 |
| DC-1 | 9/7/2004 | 312.46 | 40.57 | 271.89 |
| DC-1 | 2/9/2005 | 312.46 | 41.31 | 271.15 |
| DC-1 | 4/24/2007 | 312.46 | 38.29 | 274.17 |
| DC-1 | 8/21/2008 | 312.72 | 40.93 | 271.79 |
| DC-1 | 11/5/2010 | 312.72 | 40.64 | 272.08 |
| DC-1 | 2/11/2011 | 312.72 | 39.37 | 273.35 |
| DC-1 | 5/30/2011 | 312.72 | 37.91 | 274.81 |
| DC-1 | 7/19/2011 | 312.72 | 38.21 | 274.51 |
| DC-1 | 10/17/2011 | 312.72 | 39.37 | 273.35 |
| DC-1 | 4/2/2012 | 312.72 | 39.72 | 273.00 |
| DC-1 | 5/28/2013 | 312.82 | 39.30 | 273.52 |
| DC-1 | 10/21/2014 | 312.82 | 40.05 | 272.77 |
| DC-1 | 12/9/2015 | 312.82 | 40.51 | 272.31 |
| DC-1 | 12/13/2016 | 312.82 | 39.63 | 273.19 |
| DC-1 | 3/13/2017 | 312.82 | 38.46 | 274.36 |
| DC-1 | 7/17/2017 | 312.82 | 37.40 | 275.42 |
| DC-1 | 10/20/2017 | 312.82 | 39.26 | 273.56 |
| DC-1 | 1/24/2018 | 312.82 | 39.02 | 273.80 |
| DC-1 | 4/17/2018 | 312.82 | 38.43 | 274.39 |
| DC-1 | 10/15/2018 | 312.82 | 39.80 | 273.02 |
| DC-1 | 10/24/2019 | 312.82 | 40.84 | 271.98 |
| | | | | |
| DC-2 | 2/3/1999 | 312.80 | 39.04 | 273.76 |
| DC-2 | 4/16/1999 | 312.80 | 36.90 | 275.90 |
| DC-2 | 12/8/1999 | 312.80 | 39.88 | 272.92 |
| DC-2 | 4/26/2000 | 312.80 | 39.11 | 273.69 |
| DC-2 | 8/3/2000 | 312.80 | 39.85 | 272.95 |
| DC-2 | 11/14/2000 | 312.80 | 41.04 | 271.76 |
| DC-2 | 3/6/2001 | 312.80 | 41.82 | 270.98 |
| DC-2 | 6/20/2001 | 312.80 | 42.18 | 270.62 |
| DC-2 | 9/17/2001 | 312.80 | 42.50 | 270.30 |
| DC-2 | 12/20/2001 | 312.80 | 42.12 | 270.68 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| DC-2 | 3/13/2002 | 312.80 | 40.45 | 272.35 |
| DC-2 | 6/13/2002 | 312.80 | 39.64 | 273.16 |
| DC-2 | 9/17/2002 | 312.80 | 40.50 | 272.30 |
| DC-2 | 12/10/2002 | 312.80 | 41.42 | 271.38 |
| DC-2 | 3/31/2003 | 312.80 | 41.03 | 271.77 |
| DC-2 | 9/3/2003 | 312.80 | 41.41 | 271.39 |
| DC-2 | 3/16/2004 | 312.80 | 40.51 | 272.29 |
| DC-2 | 9/7/2004 | 312.80 | 41.30 | 271.50 |
| DC-2 | 2/9/2005 | 312.80 | 41.99 | 270.81 |
| DC-2 | 4/24/2007 | 312.80 | 39.03 | 273.77 |
| DC-2 | 8/21/2008 | 313.04 | 41.65 | 271.39 |
| DC-2 | 11/5/2010 | 313.04 | 41.34 | 271.70 |
| DC-2 | 2/11/2011 | 313.04 | 40.08 | 272.96 |
| DC-2 | 5/30/2011 | 313.04 | 38.67 | 274.37 |
| DC-2 | 7/19/2011 | 313.04 | 38.98 | 274.06 |
| DC-2 | 10/17/2011 | 313.04 | 40.08 | 272.96 |
| DC-2 | 4/2/2012 | 313.04 | 40.41 | 272.63 |
| DC-2 | 10/21/2014 | 312.92 | 40.78 | 272.14 |
| DC-2 | 12/9/2015 | 312.92 | 41.22 | 271.70 |
| DC-2 | 12/13/2016 | 312.92 | 40.36 | 272.56 |
| DC-2 | 3/13/2017 | 312.92 | 39.19 | 273.73 |
| DC-2 | 7/17/2017 | 312.92 | 38.20 | 274.72 |
| DC-2 | 10/20/2017 | 312.92 | 39.71 | 273.21 |
| DC-2 | 1/24/2018 | 312.92 | 39.76 | 273.16 |
| DC-2 | 4/17/2018 | 312.92 | 39.20 | 273.72 |
| DC-2 | 7/18/2018 | 312.92 | 39.42 | 273.50 |
| DC-2 | 10/15/2018 | 312.92 | 40.53 | 272.39 |
| DC-2 | 10/24/2019 | 312.92 | 41.53 | 271.39 |
| | | | | |
| DC-3 | 10/21/1998 | 312.98 | 39.68 | 273.30 |
| DC-3 | 2/3/1999 | 312.98 | 39.22 | 273.76 |
| DC-3 | 4/16/1999 | 312.98 | 37.13 | 275.85 |
| DC-3 | 12/8/1999 | 312.98 | 40.10 | 272.88 |
| DC-3 | 4/26/2000 | 312.98 | 39.33 | 273.65 |
| DC-3 | 8/3/2000 | 312.98 | 40.08 | 272.90 |
| DC-3 | 11/14/2000 | 312.98 | 41.27 | 271.71 |
| DC-3 | 3/6/2001 | 312.98 | 42.05 | 270.93 |
| DC-3 | 6/20/2001 | 312.98 | 42.37 | 270.61 |
| DC-3 | 9/17/2001 | 312.98 | 42.73 | 270.25 |
| DC-3 | 12/20/2001 | 312.98 | 42.30 | 270.68 |
| DC-3 | 3/13/2002 | 312.98 | 40.66 | 272.32 |
| DC-3 | 6/13/2002 | 312.98 | 39.87 | 273.11 |
| DC-3 | 9/17/2002 | 312.98 | 40.75 | 272.23 |
| DC-3 | 12/10/2002 | 312.98 | 41.65 | 271.33 |
| DC-3 | 3/31/2003 | 312.98 | 41.25 | 271.73 |
| DC-3 | 9/3/2003 | 312.98 | 41.65 | 271.33 |
| DC-3 | 3/16/2004 | 312.98 | 40.71 | 272.27 |
| DC-3 | 9/7/2004 | 312.98 | 41.54 | 271.44 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| DC-3 | 2/9/2005 | 312.98 | 42.21 | 270.77 |
| DC-3 | 4/24/2007 | 312.98 | 39.26 | 273.72 |
| DC-3 | 8/21/2008 | 313.23 | 41.89 | 271.34 |
| DC-3 | 11/5/2010 | 313.23 | 41.58 | 271.65 |
| DC-3 | 2/11/2011 | 313.23 | 40.30 | 272.93 |
| DC-3 | 5/30/2011 | 313.23 | 38.89 | 274.34 |
| DC-3 | 7/19/2011 | 313.23 | 39.22 | 274.01 |
| DC-3 | 10/17/2011 | 313.23 | 40.34 | 272.89 |
| DC-3 | 4/2/2012 | 313.23 | 40.62 | 272.61 |
| DC-3 | 10/21/2014 | 313.11 | 41.07 | 272.04 |
| DC-3 | 12/9/2015 | 313.11 | 41.47 | 271.64 |
| DC-3 | 12/13/2016 | 313.11 | 40.59 | 272.52 |
| DC-3 | 3/13/2017 | 313.11 | 39.39 | 273.72 |
| DC-3 | 7/17/2017 | 313.11 | 38.44 | 274.67 |
| DC-3 | 10/20/2017 | 313.11 | 39.94 | 273.17 |
| DC-3 | 1/24/2018 | 313.11 | 39.98 | 273.13 |
| DC-3 | 4/17/2018 | 313.11 | 39.47 | 273.64 |
| DC-3 | 7/18/2018 | 313.11 | 39.67 | 273.44 |
| DC-3 | 10/15/2018 | 313.11 | 40.80 | 272.31 |
| DC-3 | 10/24/2019 | 313.11 | 41.78 | 271.33 |
| DC-4 | 10/21/1998 | 312.20 | 39.96 | 272.24 |
| DC-4 | 2/3/1999 | 312.20 | 38.37 | 273.83 |
| DC-4 | 4/16/1999 | 312.20 | 36.34 | 275.86 |
| DC-4 | 12/8/1999 | 312.20 | 39.32 | 272.88 |
| DC-4 | 4/26/2000 | 312.20 | 38.55 | 273.65 |
| DC-4 | 8/3/2000 | 312.20 | 39.33 | 272.87 |
| DC-4 | 11/14/2000 | 312.20 | 40.52 | 271.68 |
| DC-4 | 3/6/2001 | 312.20 | 41.29 | 270.91 |
| DC-4 | 6/20/2001 | 312.20 | 41.60 | 270.60 |
| DC-4 | 9/17/2001 | 312.20 | 41.89 | 270.31 |
| DC-4 | 12/20/2001 | 312.20 | 41.49 | 270.71 |
| DC-4 | 3/13/2002 | 312.20 | 39.86 | 272.34 |
| DC-4 | 6/13/2002 | 312.20 | 39.11 | 273.09 |
| DC-4 | 9/17/2002 | 312.20 | 40.00 | 272.20 |
| DC-4 | 12/10/2002 | 312.20 | 40.92 | 271.28 |
| DC-4 | 3/31/2003 | 312.20 | 40.44 | 271.76 |
| DC-4 | 9/3/2003 | 312.20 | 40.88 | 271.32 |
| DC-4 | 3/16/2004 | 312.20 | 39.94 | 272.26 |
| DC-4 | 9/7/2004 | 312.20 | 40.81 | 271.39 |
| DC-4 | 2/9/2005 | 312.20 | 41.42 | 270.78 |
| DC-4 | 4/24/2007 | 312.20 | 38.50 | 273.70 |
| DC-4 | 8/21/2008 | 312.12 | 41.13 | 270.99 |
| DC-4 | 11/5/2010 | 312.12 | 40.81 | 271.31 |
| DC-4 | 2/11/2011 | 312.12 | 39.51 | 272.61 |
| DC-4 | 5/30/2011 | 312.12 | 38.13 | 273.99 |
| DC-4 | 7/19/2011 | 312.12 | 38.48 | 273.64 |
| DC-4 | 10/17/2011 | 312.12 | 39.57 | 272.55 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| DC-4 | 4/2/2012 | 312.12 | 38.82 | 273.30 |
| DC-4 | 5/28/2013 | 312.56 | 39.50 | 273.06 |
| DC-4 | 10/21/2014 | 312.35 | 40.34 | 272.01 |
| DC-4 | 12/9/2015 | 312.35 | 40.34 | 272.01 |
| DC-4 | 12/13/2016 | 312.35 | 39.84 | 272.51 |
| DC-4 | 3/13/2017 | 312.35 | 38.59 | 273.76 |
| DC-4 | 7/17/2017 | 312.35 | 37.70 | 274.65 |
| DC-4 | 10/20/2017 | 312.35 | 39.50 | 272.85 |
| DC-4 | 1/24/2018 | 312.35 | 39.21 | 273.14 |
| DC-4 | 4/18/2018 | 312.35 | 38.61 | 273.74 |
| DC-4 | 7/18/2018 | 312.35 | 38.95 | 273.40 |
| DC-4 | 10/15/2018 | 312.35 | 40.16 | 272.19 |
| DC-4 | 10/24/2019 | 312.35 | 41.05 | 271.30 |
| DC-4 | 12/7/2021 | 312.35 | 40.76 | 271.59 |
| | | | | |
| DC-5 | 2/3/1999 | 305.86 | 32.48 | 273.38 |
| DC-5 | 4/16/1999 | 305.86 | 30.46 | 275.40 |
| DC-5 | 4/11/2006 | 305.86 | 33.74 | 272.12 |
| DC-5 | 4/24/2007 | 306.10 | 32.56 | 273.54 |
| DC-5 | 8/21/2008 | 306.10 | 35.15 | 270.95 |
| DC-5 | 11/5/2010 | 306.10 | 34.86 | 271.24 |
| DC-5 | 2/11/2011 | 306.10 | 33.59 | 272.51 |
| DC-5 | 5/30/2011 | 306.10 | 32.23 | 273.87 |
| DC-5 | 7/19/2011 | 306.10 | 32.58 | 273.52 |
| DC-5 | 10/17/2011 | 306.10 | 33.65 | 272.45 |
| DC-5 | 4/2/2012 | 306.10 | 33.86 | 272.24 |
| DC-5 | 5/28/2013 | 306.25 | 33.60 | 272.65 |
| DC-5 | 10/15/2018 | 306.25 | 34.15 | 272.10 |
| | | | | |
| DC-6 | 2/3/1999 | 308.46 | 35.03 | 273.43 |
| DC-6 | 4/16/1999 | 308.46 | 32.92 | 275.54 |
| | | | | |
| DC-7 | 2/3/1999 | 302.50 | 29.89 | 272.61 |
| DC-7 | 4/16/1999 | 302.50 | 28.05 | 274.45 |
| DC-7 | 12/8/1999 | 302.50 | 30.76 | 271.74 |
| DC-7 | 4/26/2000 | 302.50 | 30.12 | 272.38 |
| DC-7 | 8/3/2000 | 302.50 | 30.84 | 271.66 |
| DC-7 | 11/14/2000 | 302.50 | 31.90 | 270.60 |
| DC-7 | 3/6/2001 | 302.50 | 32.60 | 269.90 |
| DC-7 | 6/20/2001 | 302.50 | 32.91 | 269.59 |
| DC-7 | 9/17/2001 | 302.50 | 33.25 | 269.25 |
| DC-7 | 12/20/2001 | 302.50 | 32.75 | 269.75 |
| DC-7 | 3/13/2002 | 302.50 | 31.22 | 271.28 |
| DC-7 | 6/13/2002 | 302.50 | 30.57 | 271.93 |
| DC-7 | 9/17/2002 | 302.50 | 31.44 | 271.06 |
| DC-7 | 12/10/2002 | 302.50 | 32.27 | 270.23 |
| DC-7 | 3/31/2003 | 302.50 | 31.78 | 270.72 |
| DC-7 | 9/3/2003 | 302.50 | 32.26 | 270.24 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| DC-7 | 2/9/2005 | 302.50 | 32.67 | 269.83 |
| DC-7 | 4/11/2006 | 302.50 | 31.05 | 271.45 |
| DC-7 | 10/26/2006 | 302.50 | 32.58 | 269.92 |
| DC-7 | 4/24/2007 | 302.50 | 29.96 | 272.54 |
| DC-7 | 8/21/2008 | 302.78 | 32.48 | 270.30 |
| DC-7 | 11/5/2010 | 302.78 | 32.15 | 270.63 |
| DC-7 | 2/11/2011 | 302.78 | 30.91 | 271.87 |
| DC-7 | 5/30/2011 | 302.78 | 29.68 | 273.10 |
| DC-7 | 7/19/2011 | 302.78 | 30.03 | 272.75 |
| DC-7 | 10/17/2011 | 302.78 | 31.04 | 271.74 |
| DC-7 | 4/2/2012 | 302.78 | 31.12 | 271.66 |
| DC-7 | 5/28/2013 | 302.88 | 30.94 | 271.94 |
| DC-7 | 10/21/2014 | 302.61 | 31.71 | 270.90 |
| DC-7 | 12/16/2015 | 302.61 | 31.79 | 270.82 |
| DC-7 | 12/13/2016 | 302.61 | 31.19 | 271.42 |
| DC-7 | 3/13/2017 | 302.61 | 30.03 | 272.58 |
| DC-7 | 7/17/2017 | 302.61 | 29.37 | 273.24 |
| DC-7 | 10/20/2017 | 302.61 | 30.51 | 272.10 |
| DC-7 | 1/24/2018 | 302.61 | 30.69 | 271.92 |
| DC-7 | 4/17/2018 | 302.61 | 30.19 | 272.42 |
| DC-7 | 7/18/2018 | 302.61 | 30.48 | 272.13 |
| DC-7 | 10/15/2018 | 302.61 | 31.52 | 271.09 |
| DC-7 | 10/24/2019 | 302.61 | 32.42 | 270.19 |
| DC-7 | 5/11/2021 | 302.61 | 31.15 | 271.46 |
| DC-7 | 12/8/2021 | 302.61 | 32.07 | 270.54 |
| DC-8 | 2/3/1999 | 306.09 | 33.45 | 272.64 |
| DC-8 | 4/16/1999 | 306.09 | 31.43 | 274.66 |
| DC-8 | 12/8/1999 | 306.09 | 34.27 | 271.82 |
| DC-8 | 4/26/2000 | 306.09 | 33.55 | 272.54 |
| DC-8 | 8/3/2000 | 306.09 | 34.26 | 271.83 |
| DC-8 | 11/14/2000 | 306.09 | 35.37 | 270.72 |
| DC-8 | 3/6/2001 | 306.09 | 36.11 | 269.98 |
| DC-8 | 6/20/2001 | 306.09 | 36.45 | 269.64 |
| DC-8 | 9/17/2001 | 306.09 | 36.75 | 269.34 |
| DC-8 | 12/20/2001 | 306.09 | 36.40 | 269.69 |
| DC-8 | 3/13/2002 | 306.09 | 34.82 | 271.27 |
| DC-8 | 6/13/2002 | 306.09 | 34.05 | 272.04 |
| DC-8 | 9/17/2002 | 306.09 | 34.85 | 271.24 |
| DC-8 | 12/10/2002 | 306.09 | 35.74 | 270.35 |
| DC-8 | 3/31/2003 | 306.09 | 35.71 | 270.38 |
| DC-8 | 9/3/2003 | 306.09 | 35.73 | 270.36 |
| DC-8 | 2/9/2005 | 306.09 | 36.26 | 269.83 |
| DC-8 | 4/11/2006 | 306.09 | 34.60 | 271.49 |
| DC-8 | 10/26/2006 | 306.09 | 36.00 | 270.09 |
| DC-8 | 4/24/2007 | 306.11 | 33.47 | 272.64 |
| DC-8 | 11/5/2010 | 306.38 | 35.69 | 270.69 |
| DC-8 | 2/11/2011 | 306.38 | 34.49 | 271.89 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| DC-8 | 5/30/2011 | 306.38 | 33.15 | 273.23 |
| DC-8 | 7/19/2011 | 306.38 | 33.46 | 272.92 |
| DC-8 | 10/17/2011 | 306.38 | 34.51 | 271.87 |
| DC-8 | 4/2/2012 | 306.38 | 34.77 | 271.61 |
| DC-8 | 5/28/2013 | 306.46 | 34.45 | 272.01 |
| DC-8 | 10/21/2014 | 306.46 | 35.17 | 271.29 |
| DC-8 | 12/9/2015 | 306.23 | 35.58 | 270.65 |
| DC-8 | 12/13/2016 | 306.23 | 34.71 | 271.52 |
| DC-8 | 3/13/2017 | 306.23 | 33.65 | 272.58 |
| DC-8 | 7/17/2017 | 306.23 | 32.75 | 273.48 |
| DC-8 | 10/20/2017 | 306.23 | 34.14 | 272.09 |
| DC-8 | 1/24/2018 | 306.23 | 34.21 | 272.02 |
| DC-8 | 4/17/2018 | 306.23 | 33.64 | 272.59 |
| DC-8 | 7/18/2018 | 306.23 | 33.92 | 272.31 |
| DC-8 | 10/15/2018 | 306.23 | 34.94 | 271.29 |
| DC-8 | 10/29/2019 | 306.23 | 36.03 | 270.20 |
| DC-8 | 12/8/2021 | 306.23 | 35.69 | 270.54 |
| | | | | |
| DC-9A | 4/16/1999 | 307.76 | 32.19 | 275.57 |
| DC-9A | 12/8/1999 | 307.76 | 35.03 | 272.73 |
| DC-9A | 4/26/2000 | 307.76 | 34.35 | 273.41 |
| DC-9A | 8/3/2000 | 307.76 | 35.11 | 272.65 |
| DC-9A | 11/14/2000 | 307.76 | 36.30 | 271.46 |
| DC-9A | 4/11/2006 | 307.76 | 35.45 | 272.31 |
| DC-9A | 8/8/2006 | 307.76 | 36.25 | 271.51 |
| DC-9A | 11/2/2006 | 307.76 | 36.90 | 270.86 |
| DC-9A | 4/24/2007 | 307.75 | 34.30 | 273.45 |
| DC-9A | 8/21/2008 | 308.02 | 36.92 | 271.10 |
| | | | | |
| DC-9B | 4/16/1999 | 307.91 | 32.34 | 275.57 |
| DC-9B | 3/6/2001 | 307.91 | 37.22 | 270.69 |
| DC-9B | 6/20/2001 | 307.91 | 37.52 | 270.39 |
| DC-9B | 9/17/2001 | 307.91 | 37.87 | 270.04 |
| DC-9B | 12/20/2001 | 307.91 | 37.45 | 270.46 |
| DC-9B | 4/11/2006 | 307.91 | 35.65 | 272.26 |
| DC-9B | 8/8/2006 | 307.91 | 36.40 | 271.51 |
| DC-9B | 10/26/2006 | 307.91 | 37.15 | 270.76 |
| DC-9B | 4/24/2007 | 307.94 | 34.45 | 273.49 |
| DC-9B | 8/21/2008 | 308.16 | 37.05 | 271.11 |
| | | | | |
| DC-10A | 4/16/1999 | 307.59 | 31.85 | 275.74 |
| DC-10A | 12/8/1999 | 307.59 | 34.82 | 272.77 |
| DC-10A | 4/26/2000 | 307.59 | 34.05 | 273.54 |
| DC-10A | 8/3/2000 | 307.59 | 34.86 | 272.73 |
| DC-10A | 11/14/2000 | 307.59 | 36.05 | 271.54 |
| DC-10A | 2/11/2011 | 307.72 | 34.99 | 272.73 |
| DC-10A | 5/30/2011 | 307.72 | 33.65 | 274.07 |
| DC-10A | 7/19/2011 | 307.72 | 34.07 | 273.65 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| DC-10A | 10/17/2011 | 307.72 | 35.12 | 272.60 |
| DC-10A | 4/2/2012 | 307.72 | 35.23 | 272.49 |
| DC-10A | 5/28/2013 | 307.93 | 35.04 | 272.89 |
| DC-10A | 10/21/2014 | 307.73 | 35.83 | 271.90 |
| DC-10A | 12/9/2015 | 307.73 | 36.19 | 271.54 |
| DC-10A | 12/13/2016 | 307.73 | 35.35 | 272.38 |
| DC-10A | 3/13/2017 | 307.73 | 34.09 | 273.64 |
| DC-10A | 7/17/2017 | 307.73 | 33.29 | 274.44 |
| DC-10A | 10/20/2017 | 307.73 | 34.79 | 272.94 |
| DC-10A | 1/24/2018 | 307.73 | 34.72 | 273.01 |
| DC-10A | 4/17/2018 | 307.73 | 34.23 | 273.50 |
| DC-10A | 4/17/2018 | 307.73 | 34.23 | 273.50 |
| DC-10A | 7/18/2018 | 307.73 | 34.50 | 273.23 |
| DC-10A | 10/15/2018 | 307.73 | 36.12 | 271.61 |
| DC-10A | 10/24/2019 | 307.73 | 36.48 | 271.25 |
| DC-10A | 12/7/2021 | 307.73 | 36.26 | 271.47 |
| | | | | |
| DC-10B | 4/16/1999 | 307.66 | 31.92 | 275.74 |
| DC-10B | 3/6/2001 | 307.66 | 36.89 | 270.77 |
| DC-10B | 6/20/2001 | 307.66 | 37.46 | 270.20 |
| DC-10B | 9/17/2001 | 307.66 | 37.55 | 270.11 |
| DC-10B | 12/20/2001 | 307.66 | 37.03 | 270.63 |
| DC-10B | 2/9/2005 | 307.66 | 36.98 | 270.68 |
| DC-10B | 4/11/2006 | 307.66 | 35.24 | 272.42 |
| DC-10B | 4/24/2007 | 307.66 | 34.08 | 273.58 |
| DC-10B | 8/21/2008 | 307.89 | 36.74 | 271.15 |
| DC-10B | 11/5/2010 | 307.89 | 36.40 | 271.49 |
| DC-10B | 2/11/2011 | 307.89 | 35.06 | 272.83 |
| DC-10B | 5/30/2011 | 307.89 | 33.72 | 274.17 |
| DC-10B | 7/19/2011 | 307.89 | 34.09 | 273.80 |
| DC-10B | 10/17/2011 | 307.89 | 35.15 | 272.74 |
| DC-10B | 4/2/2012 | 307.89 | 35.34 | 272.55 |
| DC-10B | 12/13/2016 | 307.89 | 35.45 | 272.44 |
| DC-10B | 10/15/2018 | 307.89 | 35.70 | 272.19 |
| | | | | |
| DC-11 | 4/24/2007 | 311.02 | 37.29 | 273.73 |
| DC-11 | 11/5/2010 | 311.02 | 39.59 | 271.43 |
| DC-11 | 2/11/2011 | 311.02 | 38.36 | 272.66 |
| DC-11 | 5/30/2011 | 311.02 | 36.91 | 274.11 |
| DC-11 | 4/2/2012 | 311.02 | 38.67 | 272.35 |
| DC-11 | 4/14/2014 | 311.25 | 38.73 | 272.52 |
| DC-11 | 10/21/2014 | 311.25 | 39.00 | 272.25 |
| DC-11 | 12/9/2015 | 311.25 | 39.48 | 271.77 |
| DC-11 | 12/13/2016 | 311.25 | 38.56 | 272.69 |
| DC-11 | 3/13/2017 | 311.25 | 37.49 | 273.76 |
| DC-11 | 7/17/2017 | 311.25 | 36.43 | 274.82 |
| DC-11 | 10/20/2017 | 311.25 | 37.66 | 273.59 |
| DC-11 | 1/24/2018 | 311.25 | 38.00 | 273.25 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| DC-11 | 4/17/2018 | 311.25 | 37.40 | 273.85 |
| DC-11 | 7/18/2018 | 311.25 | 37.63 | 273.62 |
| DC-11 | 10/15/2018 | 311.25 | 38.74 | 272.51 |
| DC-11 | 10/24/2019 | 311.25 | 39.73 | 271.52 |
| DC-12 | 4/24/2007 | 310.90 | 37.54 | 273.36 |
| DC-12 | 8/21/2008 | 310.90 | 40.05 | 270.85 |
| DC-12 | 11/5/2010 | 310.90 | 39.79 | 271.11 |
| DC-12 | 2/11/2011 | 310.90 | 38.60 | 272.30 |
| DC-12 | 5/30/2011 | 310.90 | 37.17 | 273.73 |
| DC-12 | 7/19/2011 | 310.90 | 37.45 | 273.45 |
| DC-12 | 10/17/2011 | 310.90 | 38.54 | 272.36 |
| DC-12 | 4/2/2012 | 310.90 | 38.91 | 271.99 |
| DC-12 | 5/28/2013 | 311.25 | 38.50 | 272.75 |
| DC-12 | 4/14/2014 | 311.25 | 38.93 | 272.32 |
| DC-12 | 10/27/2014 | 311.25 | 39.23 | 272.02 |
| DC-12 | 12/9/2015 | 311.25 | 39.70 | 271.55 |
| DC-12 | 12/13/2016 | 311.25 | 38.80 | 272.45 |
| DC-12 | 3/13/2017 | 311.25 | 37.72 | 273.53 |
| DC-12 | 7/17/2017 | 311.25 | 36.71 | 274.54 |
| DC-12 | 10/20/2017 | 311.25 | 38.20 | 273.05 |
| DC-12 | 1/24/2018 | 311.25 | 38.24 | 273.01 |
| DC-12 | 4/17/2018 | 311.25 | 37.67 | 273.58 |
| DC-12 | 7/19/2018 | 311.25 | 37.90 | 273.35 |
| DC-12 | 10/15/2018 | 311.25 | 38.94 | 272.31 |
| DC-12 | 10/25/2019 | 311.25 | 39.95 | 271.30 |
| DC-13 | 4/24/2007 | 310.85 | 36.64 | 274.21 |
| DC-13 | 8/21/2008 | 310.85 | 39.13 | 271.72 |
| DC-13 | 11/5/2010 | 310.85 | 38.88 | 271.97 |
| DC-13 | 2/11/2011 | 310.85 | 37.68 | 273.17 |
| DC-13 | 5/30/2011 | 310.85 | 36.28 | 274.57 |
| DC-13 | 7/19/2011 | 310.85 | 36.57 | 274.28 |
| DC-13 | 10/17/2011 | 310.85 | 37.65 | 273.20 |
| DC-13 | 4/2/2012 | 310.85 | 38.01 | 272.84 |
| DC-13 | 5/28/2013 | 310.20 | 37.61 | 272.59 |
| DC-13 | 4/14/2014 | 310.20 | 38.02 | 272.18 |
| DC-13 | 10/27/2014 | 310.20 | 38.37 | 271.83 |
| DC-13 | 12/9/2015 | 310.20 | 38.37 | 271.83 |
| DC-13 | 12/13/2016 | 310.20 | 37.89 | 272.31 |
| DC-13 | 3/13/2017 | 310.20 | 36.82 | 273.38 |
| DC-13 | 7/17/2017 | 310.20 | 37.82 | 272.38 |
| DC-13 | 10/20/2017 | 310.20 | 37.26 | 272.94 |
| DC-13 | 1/24/2018 | 310.20 | 37.33 | 272.87 |
| DC-13 | 4/17/2018 | 310.20 | 36.77 | 273.43 |
| DC-13 | 7/18/2018 | 310.20 | 36.97 | 273.23 |
| DC-13 | 10/15/2018 | 310.20 | 38.06 | 272.14 |
| DC-13 | 10/24/2019 | 310.20 | 39.05 | 271.15 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| DC-14 | 4/24/2007 | 308.60 | 36.15 | 272.45 |
| DC-14 | 8/21/2008 | 308.60 | 38.59 | 270.01 |
| DC-14 | 11/5/2010 | 308.60 | 38.34 | 270.26 |
| DC-14 | 2/11/2011 | 308.60 | 37.18 | 271.42 |
| DC-14 | 5/30/2011 | 308.60 | 35.83 | 272.77 |
| DC-14 | 7/19/2011 | 308.60 | 36.12 | 272.48 |
| DC-14 | 10/17/2011 | 308.60 | 37.14 | 271.46 |
| DC-14 | 4/2/2012 | 308.60 | 37.49 | 271.11 |
| DC-14 | 5/28/2013 | 308.94 | 37.10 | 271.84 |
| DC-14 | 10/21/2014 | 308.94 | 37.77 | 271.17 |
| DC-14 | 12/9/2015 | 308.94 | 38.23 | 270.71 |
| DC-14 | 12/13/2016 | 308.94 | 37.40 | 271.54 |
| DC-14 | 3/13/2017 | 308.94 | 36.38 | 272.56 |
| DC-14 | 7/17/2017 | 308.94 | 35.40 | 273.54 |
| DC-14 | 10/20/2017 | 308.94 | 36.78 | 272.16 |
| DC-14 | 1/24/2018 | 308.94 | 36.84 | 272.10 |
| DC-14 | 4/17/2018 | 308.94 | 36.31 | 272.63 |
| DC-14 | 7/18/2018 | 308.94 | 36.51 | 272.43 |
| DC-14 | 10/15/2018 | 308.94 | Well Missing | Decomissioned 3/2019 |
| DC-15 | 4/24/2007 | 307.54 | 34.64 | 272.90 |
| DC-15 | 11/5/2010 | 307.54 | 36.93 | 270.61 |
| DC-15 | 2/11/2011 | 307.54 | 35.68 | 271.86 |
| DC-15 | 5/30/2011 | 307.54 | 34.32 | 273.22 |
| DC-15 | 7/19/2011 | 307.54 | 34.62 | 272.92 |
| DC-15 | 10/17/2011 | 307.54 | 35.68 | 271.86 |
| DC-15 | 4/2/2012 | 307.54 | 35.94 | 271.60 |
| DC-15 | 5/28/2013 | 307.89 | 35.61 | 272.28 |
| DC-15 | 4/14/2014 | 307.89 | 36.02 | 271.87 |
| DC-15 | 10/21/2014 | 307.89 | 36.35 | 271.54 |
| DC-15 | 12/9/2015 | 307.89 | 36.79 | 271.10 |
| DC-15 | 12/13/2016 | 307.89 | 35.91 | 271.98 |
| DC-15 | 3/13/2017 | 307.89 | 34.82 | 273.07 |
| DC-15 | 7/17/2017 | 307.89 | 33.91 | 273.98 |
| DC-15 | 10/20/2017 | 307.89 | 34.31 | 273.58 |
| DC-15 | 1/24/2018 | 307.89 | 35.40 | 272.49 |
| DC-15 | 4/17/2018 | 307.89 | 34.81 | 273.08 |
| DC-15 | 7/18/2018 | 307.89 | 35.08 | 272.81 |
| DC-15 | 10/16/2018 | 307.89 | 36.12 | 271.77 |
| DC-15 | 10/24/2019 | 307.89 | 37.10 | 270.79 |
| DC-15 | 12/8/2021 | 307.89 | 36.90 | 270.99 |
| DC-16 | 4/24/2007 | 307.12 | 33.81 | 273.31 |
| DC-16 | 8/21/2008 | 307.12 | 36.41 | 270.71 |
| DC-16 | 11/5/2010 | 307.12 | 36.10 | 271.02 |
| DC-16 | 2/11/2011 | 307.12 | 34.85 | 272.27 |
| DC-16 | 5/30/2011 | 307.12 | 33.48 | 273.64 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| DC-16 | 7/19/2011 | 307.12 | 33.83 | 273.29 |
| DC-16 | 10/17/2011 | 307.12 | 34.91 | 272.21 |
| DC-16 | 4/2/2012 | 307.12 | 35.14 | 271.98 |
| DC-16 | 12/13/2016 | 307.12 | 35.15 | 271.97 |
| DC-16 | 3/13/2017 | 307.12 | 34.80 | 272.32 |
| DC-16 | 10/15/2018 | 307.12 | 35.37 | 271.75 |
| | | | | |
| DC-17 | 4/24/2007 | 304.89 | 31.65 | 273.24 |
| DC-17 | 5/28/2013 | 305.16 | 32.65 | 272.51 |
| DC-17 | 10/21/2014 | 305.16 | 33.44 | 271.72 |
| DC-17 | 12/16/2015 | 305.16 | 33.58 | 271.58 |
| DC-17 | 3/13/2017 | 305.16 | 31.80 | 273.36 |
| DC-17 | 7/17/2017 | 305.16 | -- | -- |
| DC-17 | 10/20/2017 | 305.16 | 32.51 | 272.65 |
| DC-17 | 1/24/2018 | 305.16 | 32.42 | 272.74 |
| DC-17 | 4/17/2018 | 305.16 | 31.94 | 273.22 |
| DC-17 | 7/18/2018 | 305.16 | 32.18 | 272.98 |
| DC-17 | 10/15/2018 | 305.16 | 33.24 | 271.92 |
| DC-17 | 5/21/2019 | 305.16 | 33.21 | 271.95 |
| DC-17 | 10/24/2019 | 305.16 | 34.20 | 270.96 |
| DC-17 | 12/8/2021 | 305.16 | 33.98 | 271.18 |
| | | | | |
| DC-18 | 4/24/2007 | 309.37 | 36.10 | 273.27 |
| DC-18 | 5/28/2013 | 309.64 | 37.05 | 272.59 |
| DC-18 | 10/21/2014 | 309.51 | 37.81 | 271.70 |
| DC-18 | 12/9/2015 | 309.51 | 38.26 | 271.25 |
| DC-18 | 12/13/2016 | 309.51 | 37.35 | 272.16 |
| DC-18 | 3/13/2017 | 309.51 | 36.26 | 273.25 |
| DC-18 | 7/17/2017 | 309.51 | 35.28 | 274.23 |
| DC-18 | 10/20/2017 | 309.51 | 36.73 | 272.78 |
| DC-18 | 1/24/2018 | 309.51 | 36.81 | 272.70 |
| DC-18 | 4/17/2018 | 309.51 | 36.24 | 273.27 |
| DC-18 | 7/18/2018 | 309.51 | 36.46 | 273.05 |
| DC-18 | 10/15/2018 | 309.51 | 37.54 | 271.97 |
| DC-18 | 10/24/2019 | 309.51 | 38.52 | 270.99 |
| DC-18 | 12/7/2021 | 309.51 | 38.36 | 271.15 |
| | | | | |
| DC-19 | 8/21/2008 | 313.53 | 42.02 | 271.51 |
| DC-19 | 11/5/2010 | 313.53 | 41.75 | 271.78 |
| DC-19 | 2/11/2011 | 313.53 | 40.52 | 273.01 |
| DC-19 | 5/30/2011 | 313.53 | 39.06 | 274.47 |
| DC-19 | 7/19/2011 | 313.53 | 39.36 | 274.17 |
| DC-19 | 10/17/2011 | 313.53 | 40.47 | 273.06 |
| DC-19 | 4/2/2012 | 313.53 | 40.85 | 272.68 |
| DC-19 | 5/28/2013 | 313.62 | 40.40 | 273.22 |
| DC-19 | 12/9/2015 | 313.62 | 41.66 | 271.96 |
| DC-19 | 12/13/2016 | 313.62 | 40.73 | 272.89 |
| DC-19 | 3/13/2017 | 313.62 | 39.65 | 273.97 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| DC-19 | 7/17/2017 | 313.62 | 38.57 | 275.05 |
| DC-19 | 10/20/2017 | 313.62 | 40.07 | 273.55 |
| DC-19 | 1/24/2018 | 313.62 | 40.16 | 273.46 |
| DC-19 | 4/17/2018 | 313.62 | 39.57 | 274.05 |
| DC-19 | 7/18/2018 | 313.62 | 39.78 | 273.84 |
| DC-19 | 10/15/2018 | 313.62 | 40.90 | 272.72 |
| DC-19 | 10/29/2019 | 313.62 | 42.03 | 271.59 |
| DC-20 | 6/2/2008 | -- | 39.46 | -- |
| DC-20 | 5/28/2013 | 310.92 | 38.42 | 272.50 |
| DC-20 | 4/14/2014 | 310.92 | 38.86 | 272.06 |
| DC-20 | 10/21/2014 | 310.92 | 39.12 | 271.80 |
| DC-20 | 12/15/2015 | 310.92 | 39.44 | 271.48 |
| DC-20 | 12/13/2016 | 310.92 | 38.69 | 272.23 |
| DC-20 | 3/13/2017 | 310.92 | 37.65 | 273.27 |
| DC-20 | 7/17/2017 | 310.92 | 36.64 | 274.28 |
| DC-20 | 10/20/2017 | 310.92 | 38.08 | 272.84 |
| DC-20 | 1/24/2018 | 310.92 | 38.17 | 272.75 |
| DC-20 | 4/17/2018 | 310.92 | 37.59 | 273.33 |
| DC-20 | 10/15/2018 | 310.92 | 38.87 | 272.05 |
| DC-20 | 10/25/2019 | 310.92 | 39.85 | 271.07 |
| DC-20 | 12/7/2021 | 310.92 | 39.71 | 271.21 |
| KMW-1 | 4/24/2007 | 311.21 | 38.15 | 273.06 |
| KMW-1 | 8/21/2008 | 311.21 | 40.60 | 270.61 |
| KMW-1 | 11/5/2010 | 311.21 | 40.37 | 270.84 |
| KMW-1 | 2/11/2011 | 311.21 | 39.19 | 272.02 |
| KMW-1 | 5/30/2011 | 311.21 | 37.79 | 273.42 |
| KMW-1 | 7/19/2011 | 311.21 | 38.06 | 273.15 |
| KMW-1 | 10/17/2011 | 311.21 | 39.13 | 272.08 |
| KMW-1 | 4/2/2012 | 311.21 | 39.50 | 271.71 |
| KMW-1 | 5/28/2013 | 311.59 | 39.08 | 272.51 |
| KMW-1 | 10/21/2014 | 311.59 | 39.81 | 271.78 |
| KMW-1 | 12/9/2015 | 311.59 | 40.29 | 271.30 |
| KMW-1 | 12/13/2016 | 311.59 | 39.36 | 272.23 |
| KMW-1 | 3/13/2017 | 311.59 | 38.34 | 273.25 |
| KMW-1 | 7/17/2017 | 311.59 | 37.31 | 274.28 |
| KMW-1 | 10/20/2017 | 311.59 | 38.85 | 272.74 |
| KMW-1 | 1/24/2018 | 311.59 | 38.83 | 272.76 |
| KMW-1 | 4/17/2018 | 311.59 | 38.27 | 273.32 |
| KMW-1 | 7/18/2018 | 311.59 | 38.47 | 273.12 |
| KMW-1 | 10/15/2018 | 311.59 | 39.55 | 272.04 |
| KMW-1 | 10/24/2019 | 311.59 | 40.55 | 271.04 |
| KMW-2 | 4/24/2007 | 306.90 | 33.33 | 273.57 |
| KMW-2 | 8/21/2008 | 306.90 | 35.96 | 270.94 |
| KMW-2 | 11/5/2010 | 306.90 | 34.59 | 272.31 |
| KMW-2 | 2/11/2011 | 306.90 | 34.32 | 272.58 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| KMW-2 | 5/30/2011 | 306.90 | 32.96 | 273.94 |
| KMW-2 | 7/19/2011 | 306.90 | 33.30 | 273.60 |
| KMW-2 | 10/17/2011 | 306.90 | 34.39 | 272.51 |
| KMW-2 | 4/2/2012 | 306.90 | 34.59 | 272.31 |
| KMW-2 | 5/28/2013 | 307.25 | 34.30 | 272.95 |
| KMW-2 | 10/21/2014 | 307.04 | 35.14 | 271.90 |
| KMW-2 | 12/9/2015 | 307.04 | 35.51 | 271.53 |
| KMW-2 | 12/13/2016 | 307.04 | 34.70 | 272.34 |
| KMW-2 | 3/13/2017 | 307.04 | 33.42 | 273.62 |
| KMW-2 | 7/17/2017 | 307.04 | 32.60 | 274.44 |
| KMW-2 | 10/20/2017 | 307.04 | 34.02 | 273.02 |
| KMW-2 | 1/24/2018 | 307.04 | 34.11 | 272.93 |
| KMW-2 | 4/17/2018 | 307.04 | 33.56 | 273.48 |
| KMW-2 | 7/18/2018 | 307.04 | 33.80 | 273.24 |
| KMW-2 | 10/15/2018 | 307.04 | 34.92 | 272.12 |
| KMW-2 | 10/24/2019 | 307.04 | 35.90 | 271.14 |
| KMW-2 | 12/7/2021 | 307.04 | 35.61 | 271.43 |
| | | | | |
| KMW-3 | 4/24/2007 | 296.92 | 24.51 | 272.41 |
| KMW-3 | 8/21/2008 | 296.92 | 27.01 | 269.91 |
| KMW-3 | 11/5/2010 | 296.92 | 26.37 | 270.55 |
| KMW-3 | 5/30/2011 | 296.92 | 24.22 | 272.70 |
| KMW-3 | 7/19/2011 | 296.92 | 24.61 | 272.31 |
| KMW-3 | 10/17/2011 | 296.92 | 25.58 | 271.34 |
| KMW-3 | 4/2/2012 | 296.92 | 25.59 | 271.33 |
| KMW-3 | 10/21/2014 | 296.92 | 26.25 | 270.67 |
| KMW-3 | 12/13/2016 | 296.92 | 25.69 | 271.23 |
| KMW-3 | 3/13/2017 | 296.92 | 24.33 | 272.59 |
| KMW-3 | 7/17/2017 | 296.92 | 23.99 | 272.93 |
| KMW-3 | 10/20/2017 | 296.92 | 25.35 | 271.57 |
| KMW-3 | 1/24/2018 | 296.92 | 25.16 | 271.76 |
| KMW-3 | 4/17/2018 | 296.92 | 24.69 | 272.23 |
| KMW-3 | 7/18/2018 | 296.92 | 25.04 | 271.88 |
| KMW-3 | 10/15/2018 | 296.92 | 26.09 | 270.83 |
| KMW-3 | 10/25/2019 | 296.99 | 26.96 | 270.03 |
| KMW-3 | 12/9/2021 | 296.99 | 26.53 | 270.46 |
| | | | | |
| KMW-4 | 4/24/2007 | 299.45 | 25.95 | 273.50 |
| KMW-4 | 8/21/2008 | 299.45 | 28.62 | 270.83 |
| KMW-4 | 11/5/2010 | 299.45 | 28.22 | 271.23 |
| KMW-4 | 2/11/2011 | 299.45 | 26.87 | 272.58 |
| KMW-4 | 5/30/2011 | 299.45 | 25.59 | 273.86 |
| KMW-4 | 7/19/2011 | 299.45 | 25.99 | 273.46 |
| KMW-4 | 10/17/2011 | 299.45 | 27.07 | 272.38 |
| KMW-4 | 4/2/2012 | 299.45 | 27.10 | 272.35 |
| KMW-4 | 10/21/2014 | 299.57 | 27.80 | 271.77 |
| KMW-4 | 12/9/2015 | 299.57 | 28.08 | 271.49 |
| KMW-4 | 12/13/2016 | 299.57 | 27.24 | 272.33 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| KMW-4 | 3/13/2017 | 299.57 | 25.90 | 273.67 |
| KMW-4 | 7/17/2017 | 299.57 | 25.25 | 274.32 |
| KMW-4 | 10/20/2017 | 299.57 | 27.26 | 272.31 |
| KMW-4 | 1/24/2018 | 299.57 | 26.58 | 272.99 |
| KMW-4 | 4/17/2018 | 299.57 | 26.13 | 273.44 |
| KMW-4 | 7/18/2018 | 299.57 | 26.50 | 273.07 |
| KMW-4 | 10/15/2018 | 299.57 | 27.60 | 271.97 |
| KMW-4 | 10/25/2019 | 299.57 | 28.57 | 271.00 |
| | | | | |
| KMW-5 | 4/24/2007 | 297.10 | 24.32 | 272.78 |
| KMW-5 | 8/21/2008 | 297.10 | 26.85 | 270.25 |
| KMW-5 | 11/5/2010 | 297.10 | 26.49 | 270.61 |
| KMW-5 | 2/11/2011 | 297.10 | 25.21 | 271.89 |
| KMW-5 | 5/30/2011 | 297.10 | 24.00 | 273.10 |
| KMW-5 | 7/19/2011 | 297.10 | 24.41 | 272.69 |
| KMW-5 | 10/17/2011 | 297.10 | 25.41 | 271.69 |
| KMW-5 | 4/2/2012 | 297.10 | 25.37 | 271.73 |
| KMW-5 | 5/28/2013 | 297.22 | 25.30 | 271.92 |
| KMW-5 | 10/21/2014 | 297.22 | 26.09 | 271.13 |
| KMW-5 | 12/9/2015 | 297.22 | 26.30 | 270.92 |
| KMW-5 | 12/13/2016 | 297.22 | 25.52 | 271.70 |
| KMW-5 | 3/13/2017 | 297.22 | 24.30 | 272.92 |
| KMW-5 | 7/17/2017 | 297.22 | 24.75 | 272.47 |
| KMW-5 | 10/20/2017 | 297.22 | 24.82 | 272.40 |
| KMW-5 | 1/24/2018 | 297.22 | 24.95 | 272.27 |
| KMW-5 | 4/17/2018 | 297.22 | 24.50 | 272.72 |
| KMW-5 | 7/18/2018 | 297.22 | 24.87 | 272.35 |
| KMW-5 | 10/31/2018 | 297.22 | 26.09 | 271.13 |
| KMW-5 | 10/25/2019 | 297.22 | 27.15 | 270.07 |
| | | | | |
| KMW-5D | 4/24/2007 | 296.94 | 24.19 | 272.75 |
| KMW-5D | 8/21/2008 | 296.94 | 26.72 | 270.22 |
| KMW-5D | 11/5/2010 | 296.94 | 26.35 | 270.59 |
| KMW-5D | 2/11/2011 | 296.94 | 25.10 | 271.84 |
| KMW-5D | 5/30/2011 | 296.94 | 23.89 | 273.05 |
| KMW-5D | 7/19/2011 | 296.94 | 24.28 | 272.66 |
| KMW-5D | 10/17/2011 | 296.94 | 25.28 | 271.66 |
| KMW-5D | 4/2/2012 | 296.94 | 25.19 | 271.75 |
| KMW-5D | 12/13/2016 | 296.94 | 25.40 | 271.54 |
| KMW-5D | 3/13/2017 | 296.94 | 25.19 | 271.75 |
| KMW-5D | 10/15/2018 | 296.94 | 25.79 | 271.15 |
| | | | | |
| KMW-6 | 4/24/2007 | 294.70 | 22.40 | 272.30 |
| KMW-6 | 8/21/2008 | 294.70 | 24.90 | 269.80 |
| KMW-6 | 11/5/2010 | 294.70 | 24.51 | 270.19 |
| KMW-6 | 2/11/2011 | 294.70 | 23.26 | 271.44 |
| KMW-6 | 5/30/2011 | 294.70 | 22.12 | 272.58 |
| KMW-6 | 7/19/2011 | 294.70 | 22.52 | 272.18 |

Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|-----------------|-------------|--|--|--|
| KMW-6 | 10/17/2011 | 294.70 | 23.48 | 271.22 |
| KMW-6 | 4/2/2012 | 294.70 | 23.39 | 271.31 |
| KMW-6 | 10/21/2014 | 294.81 | 21.05 | 273.76 |
| KMW-6 | 12/9/2015 | 294.81 | 24.31 | 270.50 |
| KMW-6 | 12/13/2016 | 294.81 | 23.53 | 271.28 |
| KMW-6 | 3/13/2017 | 294.81 | 22.34 | 272.47 |
| KMW-6 | 7/17/2017 | 294.81 | 21.90 | 272.91 |
| KMW-6 | 10/20/2017 | 294.81 | 23.31 | 271.50 |
| KMW-6 | 1/24/2018 | 294.81 | 23.30 | 271.51 |
| KMW-6 | 4/17/2018 | 294.81 | 22.54 | 272.27 |
| KMW-6 | 7/18/2018 | 294.81 | 22.98 | 271.83 |
| KMW-6 | 10/15/2018 | 294.81 | 23.98 | 270.83 |
| KMW-6 | 10/28/2019 | 294.80 | 24.80 | 270.00 |
| | | | | |
| KMW-7 | 4/24/2007 | 301.32 | 29.22 | 272.10 |
| KMW-7 | 8/21/2008 | 301.32 | 31.65 | 269.67 |
| KMW-7 | 11/5/2010 | 301.32 | 31.36 | 269.96 |
| KMW-7 | 2/11/2011 | 301.32 | 30.14 | 271.18 |
| KMW-7 | 5/30/2011 | 301.32 | 28.92 | 272.40 |
| KMW-7 | 7/19/2011 | 301.32 | 29.27 | 272.05 |
| KMW-7 | 10/17/2011 | 301.32 | 30.25 | 271.07 |
| KMW-7 | 4/2/2012 | 301.32 | 30.35 | 270.97 |
| KMW-7 | 10/21/2014 | 301.43 | 30.88 | 270.55 |
| KMW-7 | 12/15/2015 | 301.43 | 31.03 | 270.40 |
| KMW-7 | 12/13/2016 | 301.43 | 30.40 | 271.03 |
| KMW-7 | 3/13/2017 | 301.43 | 28.98 | 272.45 |
| KMW-7 | 7/17/2017 | 301.43 | 28.61 | 272.82 |
| KMW-7 | 10/20/2017 | 301.43 | 30.19 | 271.24 |
| KMW-7 | 1/24/2018 | 301.43 | 28.66 | 272.77 |
| KMW-7 | 4/17/2018 | 301.43 | 29.28 | 272.15 |
| KMW-7 | 7/18/2018 | 301.43 | 29.70 | 271.73 |
| KMW-7 | 10/15/2018 | 301.43 | 30.87 | 270.56 |
| KMW-7 | 10/29/2019 | 301.42 | 31.71 | 269.71 |
| KMW-7 | 12/10/2021 | 301.42 | 31.25 | 270.17 |
| | | | | |
| KMW-8 | 4/24/2007 | 308.08 | 35.73 | 272.35 |
| KMW-8 | 8/21/2008 | 308.08 | 38.14 | 269.94 |
| KMW-8 | 11/5/2010 | 308.08 | 37.87 | 270.21 |
| KMW-8 | 2/11/2011 | 308.08 | 36.72 | 271.36 |
| KMW-8 | 5/30/2011 | 308.08 | 35.40 | 272.68 |
| KMW-8 | 7/19/2011 | 308.08 | 35.68 | 272.40 |
| KMW-8 | 10/17/2011 | 308.08 | 36.71 | 271.37 |
| KMW-8 | 4/2/2012 | 308.08 | 37.02 | 271.06 |
| KMW-8 | 10/21/2014 | 308.15 | 37.34 | 270.81 |
| KMW-8 | 12/9/2015 | 308.15 | 37.76 | 270.39 |
| KMW-8 | 12/13/2016 | 308.15 | 36.92 | 271.23 |
| KMW-8 | 3/13/2017 | 308.15 | 35.94 | 272.21 |
| KMW-8 | 7/17/2017 | 308.15 | 34.98 | 273.17 |

**Table C2
Historical Summary of Groundwater Elevations (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Location | Date | Well Casing Elevation (feet NAVD88) | Depth to Water (feet below well casing) | Water Level Elevation (feet NAVD88) |
|----------|------------|--|--|--|
| KMW-8 | 10/20/2017 | 308.15 | 36.35 | 271.80 |
| KMW-8 | 1/24/2018 | 308.15 | 36.41 | 271.74 |
| KMW-8 | 4/17/2018 | 308.15 | 35.87 | 272.28 |
| KMW-8 | 7/18/2018 | 308.15 | 36.10 | 272.05 |
| KMW-8 | 10/15/2018 | 308.15 | 37.12 | 271.03 |
| KMW-8 | 10/28/2019 | 308.16 | 38.06 | 270.10 |
| KMW-8 | 12/10/2021 | 308.16 | 37.85 | 270.31 |
| | | | | |
| KMW-9 | 4/24/2007 | 310.18 | 36.49 | 273.69 |
| KMW-9 | 11/5/2010 | 310.18 | 38.78 | 271.40 |
| KMW-9 | 2/11/2011 | 310.18 | 37.51 | 272.67 |
| KMW-9 | 5/30/2011 | 310.18 | 36.11 | 274.07 |
| KMW-9 | 7/19/2011 | 310.18 | 36.49 | 273.69 |
| KMW-9 | 10/17/2011 | 310.18 | 37.51 | 272.67 |
| KMW-9 | 4/2/2012 | 310.18 | 37.84 | 272.34 |
| KMW-9 | 4/14/2014 | 310.53 | 37.91 | 272.62 |
| KMW-9 | 10/21/2014 | 310.33 | 38.24 | 272.09 |
| KMW-9 | 12/9/2015 | 310.33 | 38.71 | 271.62 |
| KMW-9 | 12/13/2016 | 310.33 | 37.79 | 272.54 |
| KMW-9 | 3/13/2017 | 310.33 | 36.65 | 273.68 |
| KMW-9 | 7/17/2017 | 310.33 | 35.66 | 274.67 |
| KMW-9 | 10/20/2017 | 310.33 | 37.16 | 273.17 |
| KMW-9 | 1/24/2018 | 310.33 | 37.22 | 273.11 |
| KMW-9 | 4/17/2018 | 310.33 | 36.64 | 273.69 |
| KMW-9 | 7/18/2018 | 310.33 | 36.87 | 273.46 |
| KMW-9 | 10/15/2018 | 310.33 | 37.97 | 272.36 |
| KMW-9 | 10/24/2019 | 310.33 | 39.00 | 271.33 |

NOTES:

1. '-' = not measured or not applicable.
2. Well monument types: flush grade monuments and above ground (AG) monuments.
3. Depth to water is measured from top of well casing.
4. Elevations are reported relative to North American Vertical Datum of 1988 (NAVD 88).
5. Top of casing (TOC) elevations were surveyed by D.R. Strong Consulting Engineers, Inc. in February and May 213 and by Lanktree Land Surveying, Inc. in July 215.

**Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-------------------------------------|------------|------------|--|
| Shallow Monitoring Wells | | | |
| MW-1 | 12/10/1999 | 21.6 | |
| MW-1 | 7/25/2005 | 15 | |
| MW-1 | 4/11/2006 | 14 | |
| MW-1 | 10/26/2006 | 11 | |
| MW-1 | 4/25/2007 | 13 | |
| * Monitoring well cannot be located | | | |
| MW-2 | 12/10/1999 | 16.7 | |
| MW-2 | 4/5/2012 | 7.1 | |
| MW-2 | 5/30/2013 | 2.4 | |
| MW-2 | 4/14/2014 | 3.2 | |
| MW-2 | 10/24/2014 | 1.4 | |
| MW-2 | 12/11/2015 | 1.00 | U |
| MW-2 | 3/13/2017 | 6.02 | |
| MW-2 | 7/18/2017 | 2.43 | |
| MW-2 | 10/26/2017 | 1.55 | |
| MW-2 | 4/19/2018 | 3.39 | |
| MW-2 | 7/17/2018 | 1.78 | Chloroform (0.569) |
| MW-2 | 10/18/2018 | 1.17 | Chloroform (0.843) |
| MW-2 | 10/25/2019 | 1.20 | Chloroform (1.53) |
| MW-3 | 4/14/2008 | 2.31 | Chloroform (0.990) |
| MW-3 | 11/1/2010 | 2.9 | |
| MW-3 | 5/31/2011 | 2.0 | U |
| MW-3 | 7/20/2011 | 2.0 | U |
| MW-3 | 10/18/2011 | 6.1 | |
| MW-3 | 4/4/2012 | 5.8 | |
| MW-3 | 5/29/2013 | 4.0 | |
| MW-3 | 10/24/2014 | 1.0 | |
| MW-3 | 12/10/2015 | 1.34 | |
| MW-3 | 12/14/2016 | 1.00 | U |
| MW-3 | 3/13/2017 | 1.00 | U |
| MW-3 | 7/18/2017 | 1.76 | |
| MW-3 | 10/25/2017 | 4.21 | |
| MW-3 | 4/20/2018 | 1.00 | |
| MW-3 | 10/16/2018 | 0.500 | U |
| MW-4 | 4/14/2008 | 33 | Chloroform (0.780), cis-1,2-DCE (0.320), TCE (0.490) |
| MW-4 | 3/9/2010 | 7.8 | |
| MW-4 | 11/1/2010 | 16 | |
| MW-4 | 5/31/2011 | 10 | |
| MW-4 | 7/21/2011 | 25 | |
| MW-4 | 10/19/2011 | 21 | |
| MW-4 | 4/4/2012 | 11 | |
| MW-4 | 5/29/2013 | 8.1 | |
| MW-4 | 10/29/2014 | 7.3 | |
| MW-4 | 12/14/2015 | 4.89 | |

**Table C3
 Historical Summary of Groundwater Analytical Results (1999 - 2021)
 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-----------------|------------|---------------|----------------------------|
| MW-4 | 12/14/2016 | 1.00 U | |
| MW-4 | 3/14/2017 | 1.00 U | |
| MW-4 | 7/18/2017 | 1.40 | |
| MW-4 | 10/25/2017 | 3.23 | |
| MW-4 | 4/20/2018 | 0.500 U | |
| MW-4 | 10/16/2018 | 0.500 U | |
| MW-4 | 12/7/2021 | 2.62 | |
| MW-5 | 4/11/2008 | 0.470 | |
| MW-5 | 4/2/2012 | 2.0 U | |
| MW-6 | 4/15/2008 | 2.0 U | |
| MW-6 | 4/2/2012 | 2.0 U | |
| MW-7 | 4/16/2008 | 22.4 | |
| MW-7 | 4/2/2012 | 14 | |
| MW-7 | 10/29/2014 | 20 | |
| MW-7 | 12/15/2015 | 7.42 | |
| MW-7 | 3/17/2017 | 8.08 | |
| MW-7 | 7/19/2017 | 7.20 | |
| MW-7 | 10/25/2017 | 7.47 | |
| MW-7 | 1/26/2018 | 7.73 | |
| MW-7 | 4/20/2018 | 7.64 | |
| MW-7 | 7/19/2018 | 6.60 | |
| MW-7 | 10/23/2018 | 5.79 | |
| MW-7 | 10/25/2019 | 7.13 | |
| MW-7 | 12/7/2021 | 8.20 | |
| MW-8 | 8/21/2008 | 0.20 J | |
| MW-8 | 4/2/2012 | 2.0 U | |
| MW-9 | 8/21/2008 | 0.10 J | |
| MW-9 | 4/2/2012 | 2.0 U | |
| MW-9 | 10/24/2014 | 1.0 U | |
| MW-9 | 12/10/2015 | 1.00 U | |
| MW-9 | 3/13/2017 | 1.00 U | |
| MW-9 | 10/23/2017 | 0.500 U | |
| MW-9 | 4/18/2018 | 0.500 U | |
| MW-9 | 10/17/2018 | 0.500 U | |
| MW-9 | 10/25/2019 | 0.500 U | |
| MW-9 | 12/9/2021 | 0.400 U | |
| MW-10 | 2/8/2011 | 10 | |
| MW-10 | 5/31/2011 | 2.0 U | |
| MW-10 | 7/20/2011 | 4.1 | |
| MW-10 | 10/18/2011 | 4.9 | |
| MW-10 | 4/6/2012 | 6.7 | |
| MW-10 | 5/29/2013 | 4.1 | |

Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Monitoring Well | Date | PCE (µg/l) | | Other VOCs detected (µg/l) |
|-----------------|------------|------------|---|----------------------------|
| MW-10 | 10/24/2014 | 1.7 | | |
| MW-10 | 12/11/2015 | 1.00 | U | TCE (3.22) |
| MW-10 | 12/14/2016 | 1.13 | | |
| MW-10 | 3/14/2017 | 1.09 | | |
| MW-10 | 7/18/2017 | 1.00 | U | |
| MW-10 | 10/23/2017 | 0.500 | U | |
| MW-10 | 4/18/2018 | 0.716 | | |
| MW-10 | 10/18/2018 | 0.500 | U | |
| MW-10 | 5/21/2019 | 0.630 | | |
| MW-10 | 10/25/2019 | 1.01 | | |
| MW-10 | 12/9/2021 | 1.60 | | |
| MW-11 | 2/8/2011 | 47 | | |
| MW-11 | 5/31/2011 | 2.0 | U | Acetone (51) |
| MW-11 | 7/20/2011 | 2.0 | U | Acetone (154) |
| MW-11 | 10/18/2011 | 2.0 | U | Acetone (130) |
| MW-11 | 4/6/2012 | 29 | | |
| MW-11 | 5/31/2013 | 22 | | |
| MW-11 | 10/29/2014 | 15 | | |
| MW-11 | 12/14/2015 | 11.9 | | |
| MW-11 | 12/15/2016 | 7.99 | | |
| MW-11 | 3/16/2017 | 4.66 | | |
| MW-11 | 7/19/2017 | 2.52 | | |
| MW-11 | 10/26/2017 | 2.15 | | |
| MW-11 | 1/25/2018 | 2.52 | | |
| MW-11 | 4/19/2018 | 2.97 | | |
| MW-11 | 10/19/2018 | 2.44 | | |
| MW-11 | 5/21/2019 | 3.92 | | |
| MW-11 | 12/9/2021 | 5.59 | | |
| MW-12 | 4/4/2012 | 2.0 | U | |
| MW-12 | 5/28/2013 | 1.0 | U | |
| MW-12 | 10/23/2014 | 1.0 | U | |
| MW-12 | 12/10/2015 | 1.00 | U | |
| MW-12 | 12/14/2016 | 1.00 | U | |
| MW-12 | 3/13/2017 | 1.00 | U | |
| MW-12 | 7/18/2017 | 1.00 | U | |
| MW-12 | 10/23/2017 | 0.500 | U | |
| MW-12 | 4/18/2018 | 0.500 | U | |
| MW-12 | 10/16/2018 | 0.500 | U | |
| MW-13 | 4/3/2012 | 2.0 | U | |
| MW-13 | 5/30/2013 | 1.0 | U | |
| MW-13 | 10/23/2014 | 1.0 | U | |
| MW-13 | 12/10/2015 | 1.00 | U | |
| MW-13 | 12/13/2016 | 1.00 | U | |
| MW-13 | 3/14/2017 | 1.00 | U | |
| MW-13 | 7/18/2017 | 1.00 | U | |

Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Monitoring Well | Date | PCE (µg/l) | | Other VOCs detected (µg/l) |
|-----------------|------------|--------------|---|----------------------------|
| MW-13 | 10/23/2017 | 0.500 | U | |
| MW-13 | 4/18/2018 | 0.500 | U | |
| MW-13 | 10/16/2018 | 0.500 | U | |
| MW-14 | 4/5/2012 | 2.0 | U | |
| MW-14 | 5/29/2013 | 1.0 | U | |
| MW-14 | 10/30/2014 | 1.0 | U | |
| MW-14 | 12/11/2015 | 1.00 | U | |
| MW-14 | 3/14/2017 | 1.00 | U | |
| MW-14 | 10/24/2017 | 0.910 | | |
| MW-14 | 4/20/2018 | 1.27 | | |
| MW-14 | 10/23/2018 | 0.500 | U | |
| MW-15 | 4/5/2012 | 2.0 | U | |
| MW-15 | 5/28/2013 | 1.0 | U | |
| MW-15 | 4/14/2014 | 1.0 | U | |
| MW-15 | 10/23/2014 | 1.0 | U | |
| MW-15 | 12/10/2015 | 1.00 | U | |
| MW-15 | 3/14/2017 | 1.00 | U | |
| MW-15 | 10/24/2017 | 0.954 | | |
| MW-15 | 4/19/2018 | 1.13 | | |
| MW-15 | 10/18/2018 | 0.500 | U | |
| MW-16 | 5/31/2013 | 2.5 | | |
| MW-16 | 10/23/2014 | 1.3 | | |
| MW-16 | 12/11/2015 | 1.20 | | |
| MW-16 | 12/13/2016 | 1.63 | | |
| MW-16 | 3/16/2017 | 1.13 | | |
| MW-16 | 7/18/2017 | 1.00 | U | |
| MW-16 | 10/24/2017 | 1.26 | | |
| MW-16 | 4/19/2018 | 1.33 | | |
| MW-16 | 10/18/2018 | 0.912 | | Chloroform (0.539) |
| MW-17 | 3/6/2019 | 6.82 | | |
| MW-17 | 10/28/2019 | 2.85 | | |
| MW-17 | 6/3/2020 | 5.35 | | |
| MW-17 | 12/10/2021 | 4.98 | | |
| MW-18 | 3/6/2019 | 11.4 | | |
| MW-18 | 10/28/2019 | 11.3 | | |
| MW-18 | 12/10/2021 | 9.8 | | |
| MW-20 | 10/29/2019 | 0.500 | U | Chloroform (0.547) |
| MW-20 | 12/4/2019 | 0.500 | U | |
| MW-20 | 6/3/2020 | 1.00 | U | |
| MW-20 | 12/8/2021 | 0.423 | | |
| DC-1 | 10/21/1998 | 0.60 | | Toluene (0.8) |

Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Monitoring Well | Date | PCE (µg/l) | | Other VOCs detected (µg/l) |
|-----------------|------------|--------------|---|---------------------------------|
| DC-1 | 2/3/1999 | 0.5 | U | |
| DC-1 | 4/7/1999 | 0.5 | U | Toluene (8.7) |
| DC-1 | 12/8/1999 | 1.0 | U | |
| DC-1 | 4/26/2000 | 1.0 | U | |
| DC-1 | 8/3/2000 | 1.0 | U | |
| DC-1 | 11/14/2000 | 1.0 | U | |
| DC-1 | 3/6/2001 | 1.0 | U | |
| DC-1 | 6/20/2001 | 1.0 | U | |
| DC-1 | 9/17/2001 | 1.0 | U | |
| DC-1 | 12/20/2001 | 1.0 | U | |
| DC-1 | 3/13/2002 | 1.0 | U | |
| DC-1 | 9/17/2002 | 1.0 | U | |
| DC-1 | 12/10/2002 | 1.0 | U | |
| DC-1 | 3/31/2003 | 1.0 | U | |
| DC-1 | 9/3/2003 | 1.0 | U | |
| DC-1 | 3/16/2004 | 1.0 | U | |
| DC-1 | 9/7/2004 | 1.0 | U | |
| DC-1 | 4/25/2007 | 0.2 | U | |
| DC-1 | 4/4/2012 | 2.0 | U | |
| DC-2 | 10/21/1998 | 2.4 | | Chloroform (1.8), Toluene (0.6) |
| DC-2 | 2/3/1999 | 0.7 | | |
| DC-2 | 4/7/1999 | 0.5 | U | Chloroform (1.4), Toluene (14) |
| DC-2 | 12/8/1999 | 0.5 | U | |
| DC-2 | 4/26/2000 | 1.0 | U | |
| DC-2 | 8/3/2000 | 1.0 | U | |
| DC-2 | 11/14/2000 | 1.0 | U | |
| DC-2 | 3/6/2001 | 1.0 | U | |
| DC-2 | 6/20/2001 | 1.0 | U | |
| DC-2 | 9/17/2001 | 1.0 | U | |
| DC-2 | 12/20/2001 | 1.0 | U | |
| DC-2 | 3/13/2002 | 4.0 | | |
| DC-2 | 6/13/2002 | 1.0 | U | |
| DC-2 | 9/17/2002 | 1.0 | U | |
| DC-2 | 12/10/2002 | 0.50 | | |
| DC-2 | 3/31/2003 | 3.37 | | |
| DC-2 | 9/3/2003 | 1.0 | U | |
| DC-2 | 3/16/2004 | 0.74 | | |
| DC-2 | 9/7/2004 | 1.0 | U | |
| DC-2 | 4/26/2007 | 1.2 | | |
| DC-2 | 4/14/2008 | 0.340 | | Chloroform (1.60) |
| DC-2 | 11/3/2010 | 2.0 | U | |
| DC-2 | 5/31/2011 | 2.0 | U | |
| DC-2 | 7/21/2011 | 2.0 | U | |
| DC-2 | 10/18/2011 | 2.0 | U | |
| DC-2 | 4/4/2012 | 2.0 | U | |
| DC-3 | 10/28/1998 | 54 | | Chloroform (1.9), Toluene (0.6) |

Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-----------------|------------|------------|---------------------------------|
| DC-3 | 2/4/1999 | 25 | |
| DC-3 | 4/8/1999 | 36 | Chloroform (1.2), Toluene (15) |
| DC-3 | 12/8/1999 | 45 | |
| DC-3 | 4/26/2000 | 56 | |
| DC-3 | 8/3/2000 | 25 | |
| DC-3 | 11/14/2000 | 1.0 | U |
| DC-3 | 3/6/2001 | 4.7 | |
| DC-3 | 6/20/2001 | 2.8 | |
| DC-3 | 9/17/2001 | 1.0 | U |
| DC-3 | 12/20/2001 | 9.2 | |
| DC-3 | 3/13/2002 | 40.0 | |
| DC-3 | 6/13/2002 | 42.3 | |
| DC-3 | 9/17/2002 | 33.4 | |
| DC-3 | 12/10/2002 | 5.40 | |
| DC-3 | 3/31/2003 | 7.34 | |
| DC-3 | 9/3/2003 | 2.08 | |
| DC-3 | 3/16/2004 | 1.0 | U |
| DC-3 | 9/7/2004 | 3.43 | |
| DC-3 | 4/26/2007 | 42.0 | |
| DC-3 | 4/14/2008 | 27.8 | Chloroform (1.50) |
| DC-3 | 3/9/2010 | 2.0 | U |
| DC-3 | 11/3/2010 | 2.0 | U |
| DC-3 | 5/30/2011 | 3.9 | |
| DC-3 | 7/20/2011 | 12 | |
| DC-3 | 10/18/2011 | 6.7 | |
| DC-3 | 4/4/2012 | 2.9 | |
| DC-3 | 10/27/2014 | 1.4 | |
| DC-3 | 12/11/2015 | 1.49 | |
| DC-3 | 12/14/2016 | 1.00 | U |
| DC-3 | 3/14/2017 | 2.11 | |
| DC-3 | 7/18/2017 | 1.00 | U |
| DC-3 | 10/24/2017 | 0.786 | |
| DC-3 | 4/18/2018 | 1.23 | |
| DC-3 | 10/17/2018 | 0.500 | U |
| DC-4 | 10/28/1998 | 227 | Chloroform (0.9), Toluene (0.7) |
| DC-4 | 2/4/1999 | 144 | |
| DC-4 | 4/8/1999 | 110 | Toluene (2.6) |
| DC-4 | 12/8/1999 | 71 | |
| DC-4 | 4/26/2000 | 120 | |
| DC-4 | 8/3/2000 | 42 | |
| DC-4 | 11/14/2000 | 64 | |
| DC-4 | 3/6/2001 | 52 | TCE (3.0) |
| DC-4 | 6/20/2001 | 40 | |
| DC-4 | 9/17/2001 | 23 | |
| DC-4 | 12/20/2001 | 15 | |
| DC-4 | 3/13/2002 | 55 | |
| DC-4 | 6/13/2002 | 17.9 | |

**Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-------------------------------------|------------|------------|--------------------------------|
| DC-4 | 9/17/2002 | 28.8 | |
| DC-4 | 12/10/2002 | 22.4 | |
| DC-4 | 3/31/2003 | 12.5 | |
| DC-4 | 9/3/2003 | 14.1 | |
| DC-4 | 3/16/2004 | 19.8 | |
| DC-4 | 9/7/2004 | 18.5 | |
| DC-4 | 4/26/2007 | 19.0 | |
| DC-4 | 4/11/2008 | 30.2 | Chloroform (1.2) |
| DC-4 | 3/9/2010 | 9.2 | |
| DC-4 | 11/3/2010 | 13 | |
| DC-4 | 5/31/2011 | 2.0 | U Acetone (46) |
| DC-4 | 7/20/2011 | 2.0 | U Acetone (77) |
| DC-4 | 10/18/2011 | 22 | |
| DC-4 | 4/4/2012 | 22 | |
| DC-4 | 5/30/2013 | 11 | |
| DC-4 | 10/29/2014 | 13 | |
| DC-4 | 12/14/2015 | 5.49 | |
| DC-4 | 12/14/2016 | 1.00 | U |
| DC-4 | 3/14/2017 | 1.00 | U |
| DC-4 | 7/18/2017 | 1.00 | U |
| DC-4 | 10/24/2017 | 0.500 | U |
| DC-4 | 4/18/2018 | 0.500 | U |
| DC-4 | 10/17/2018 | 0.500 | U |
| DC-4 | 12/7/2021 | 5.36 | |
| DC-6 | 2/4/1999 | 5.1 | |
| DC-6 | 4/8/1999 | 3.7 | Chloroform(1.3), Toluene (2.3) |
| * Monitoring well cannot be located | | | |
| DC-7 | 2/4/1999 | 74 | |
| DC-7 | 4/8/1999 | 64 | Toluene (1.3) |
| DC-7 | 12/8/1999 | 107 | |
| DC-7 | 4/26/2000 | 130 | |
| DC-7 | 8/3/2000 | 50 | |
| DC-7 | 11/14/2000 | 130 | |
| DC-7 | 3/6/2001 | 140 | |
| DC-7 | 6/20/2001 | 96 | |
| DC-7 | 9/17/2001 | 81 | |
| DC-7 | 12/20/2001 | 47 | |
| DC-7 | 3/13/2002 | 31 | |
| DC-7 | 6/13/2002 | 41.5 | |
| DC-7 | 9/17/2002 | 77.7 | |
| DC-7 | 12/10/2002 | 91.8 | |
| DC-7 | 3/31/2003 | 40.1 | |
| DC-7 | 9/3/2003 | 57.4 | |
| DC-7 | 7/25/2005 | 37.0 | |
| DC-7 | 4/11/2006 | 23.0 | |
| DC-7 | 10/26/2006 | 51.0 | |
| DC-7 | 4/24/2007 | 27.0 | |

**Table C3
 Historical Summary of Groundwater Analytical Results (1999 - 2021)
 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-----------------|------------|------------|----------------------------|
| DC-7 | 4/16/2008 | 50.8 | |
| DC-7 | 11/3/2010 | 34 | |
| DC-7 | 6/1/2011 | 15 | |
| DC-7 | 7/21/2011 | 38 | |
| DC-7 | 10/18/2011 | 42 | |
| DC-7 | 4/5/2012 | 18 | |
| DC-7 | 5/30/2013 | 15 | |
| DC-7 | 10/30/2014 | 23 | |
| DC-7 | 12/16/2015 | 13.3 | |
| DC-7 | 3/17/2017 | 10.4 | |
| DC-7 | 10/23/2017 | 6.67 J | |
| DC-7 | 1/26/2018 | 12.1 | |
| DC-7 | 4/20/2018 | 12.8 | |
| DC-7 | 7/20/2018 | 12.3 | |
| DC-7 | 10/23/2018 | 11.6 | |
| DC-7 | 10/30/2019 | 17.1 | |
| DC-7 | 5/11/2021 | 8.35 | |
| DC-7 | 12/8/2021 | 10.0 J | |
| DC-8 | 2/4/1999 | 56 | |
| DC-8 | 4/8/1999 | 48 | Toluene (1.2) |
| DC-8 | 12/8/1999 | 98 | |
| DC-8 | 4/26/2000 | 87 | |
| DC-8 | 8/3/2000 | 70 | |
| DC-8 | 11/14/2000 | 130 | |
| DC-8 | 3/6/2001 | 82 | |
| DC-8 | 6/20/2001 | 80 | |
| DC-8 | 9/17/2001 | 62 | |
| DC-8 | 12/20/2001 | 50 | |
| DC-8 | 3/13/2002 | 31 | |
| DC-8 | 6/13/2002 | 26.6 | |
| DC-8 | 9/17/2002 | 38.4 | |
| DC-8 | 12/10/2002 | 53.1 | |
| DC-8 | 3/31/2003 | 36.4 | |
| DC-8 | 9/3/2003 | 34.7 | |
| DC-8 | 7/25/2005 | 26.0 | |
| DC-8 | 4/11/2006 | 14.0 | |
| DC-8 | 10/26/2006 | 28.0 | |
| DC-8 | 4/24/2007 | 24.0 | |
| DC-8 | 4/16/2008 | 39.4 | |
| DC-8 | 11/3/2010 | 25 | |
| DC-8 | 6/1/2011 | 11 | |
| DC-8 | 7/21/2011 | 25 | |
| DC-8 | 10/19/2011 | 26 | |
| DC-8 | 4/5/2012 | 18 | |
| DC-8 | 5/30/2013 | 11 | |
| DC-8 | 10/30/2014 | 18 | |
| DC-8 | 12/16/2015 | 8.61 | |

Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-------------------------------------|------------|------------|----------------------------|
| DC-8 | 3/16/2017 | 9.69 | |
| DC-8 | 7/19/2017 | 8.94 | |
| DC-8 | 10/23/2017 | 14.8 | |
| DC-8 | 1/24/2018 | 12.0 | |
| DC-8 | 4/18/2018 | 13.0 | |
| DC-8 | 7/18/2018 | 11.7 | |
| DC-8 | 10/18/2018 | 12.1 | |
| DC-8 | 10/29/2019 | 15.0 | |
| DC-8 | 12/8/2021 | 11.0 | |
| DC-9A | 4/8/1999 | 135 | Toluene (3.2) |
| DC-9A | 12/8/1999 | 73 | |
| DC-9A | 4/26/2000 | 240 | |
| DC-9A | 8/3/2000 | 110 | |
| DC-9A | 4/11/2006 | 78 | |
| DC-9A | 8/8/2006 | 49 | |
| DC-9A | 11/2/2006 | 2.9 | |
| DC-9A | 4/26/2007 | 33 | |
| * Monitoring well cannot be located | | | |
| DC-10A | 4/8/1999 | 150 | Toluene (1.7) |
| DC-10A | 12/8/1999 | 73 | TCE (1.1) |
| DC-10A | 4/26/2000 | 210 | |
| DC-10A | 4/5/2012 | 41 | |
| DC-10A | 5/31/2013 | 19 | |
| DC-10A | 10/30/2014 | 17 | |
| DC-10A | 12/15/2016 | 10.8 | |
| DC-10A | 3/17/2017 | 8.62 | |
| DC-10A | 7/19/2017 | 4.69 | |
| DC-10A | 10/26/2017 | 4.72 | |
| DC-10A | 1/25/2018 | 3.62 | |
| DC-10A | 4/20/2018 | 4.67 | |
| DC-10A | 7/17/2018 | 2.68 | |
| DC-11 | 4/26/2007 | 12 | |
| DC-11 | 3/9/2010 | 4.6 | |
| DC-11 | 11/1/2010 | 4.8 | |
| DC-11 | 4/4/2012 | 3.1 | |
| DC-11 | 4/15/2014 | 1.2 | |
| DC-11 | 10/27/2014 | 1.4 | |
| DC-11 | 12/11/2015 | 1.48 | |
| DC-11 | 3/15/2017 | 1.97 | |
| DC-11 | 10/26/2017 | 1.35 | |
| DC-11 | 4/19/2018 | 1.21 | |
| DC-11 | 10/18/2018 | 1.25 | |
| DC-12 | 4/25/2007 | 16 | |
| DC-12 | 4/4/2012 | 3.7 | |

**Table C3
 Historical Summary of Groundwater Analytical Results (1999 - 2021)
 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-----------------|------------|------------|----------------------------|
| DC-12 | 5/30/2013 | 2.3 | |
| DC-12 | 4/15/2014 | 1.4 | |
| DC-12 | 10/27/2014 | 1.8 | |
| DC-12 | 12/14/2015 | 2.04 | |
| DC-12 | 3/15/2017 | 2.02 | |
| DC-12 | 10/27/2017 | 1.66 | |
| DC-12 | 4/20/2018 | 1.50 | |
| DC-12 | 10/19/2018 | 1.66 | |
| DC-13 | 4/25/2007 | 15 | |
| DC-13 | 4/16/2008 | 23 | |
| DC-13 | 3/1/2010 | 10 | |
| DC-13 | 11/2/2010 | 9.2 | |
| DC-13 | 4/5/2012 | 6.4 | |
| DC-13 | 5/30/2013 | 1.7 | |
| DC-13 | 4/14/2014 | 3.2 | |
| DC-13 | 10/27/2014 | 2.7 | |
| DC-13 | 12/14/2015 | 2.78 | |
| DC-13 | 3/15/2017 | 4.32 | |
| DC-13 | 10/27/2017 | 2.79 | |
| DC-13 | 4/20/2018 | 2.87 | |
| DC-13 | 10/19/2018 | 2.74 | |
| DC-14 | 4/25/2007 | 11 | |
| DC-14 | 4/3/2012 | 11 | |
| DC-14 | 5/30/2013 | 6.0 | |
| DC-14 | 10/29/2014 | 19 | |
| DC-14 | 12/15/2015 | 6.02 | |
| DC-14 | 3/16/2017 | 6.20 | |
| DC-14 | 7/19/2017 | 4.94 | |
| DC-14 | 10/26/2017 | 5.40 | Chloroform (2.23) |
| DC-14 | 2/2/2018 | 7.81 | |
| DC-14 | 4/19/2018 | 5.14 | Chloroform (2.27) |
| DC-14 | 7/19/2018 | 5.40 | Chloroform (1.25) |
| DC-15 | 4/24/2007 | 11 | |
| DC-15 | 4/5/2012 | 20 | |
| DC-15 | 4/15/2014 | 10 | |
| DC-15 | 10/30/2014 | 5.8 | |
| DC-15 | 12/16/2015 | 5.93 | |
| DC-15 | 3/16/2017 | 8.96 | |
| DC-15 | 10/23/2017 | 7.42 | |
| DC-15 | 1/24/2018 | 8.61 | |
| DC-15 | 4/18/2018 | 9.88 | |
| DC-15 | 7/18/2018 | 7.82 | |
| DC-15 | 10/18/2018 | 7.65 | |
| DC-15 | 10/29/2019 | 9.72 | |

Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-----------------|------------|------------|---|
| DC-15 | 12/8/2021 | 9.31 | |
| DC-17 | 4/25/2007 | 47 | |
| DC-17 | 4/16/2008 | 74.6 | |
| DC-17 | 5/31/2013 | 21 | |
| DC-17 | 10/23/2014 | 17 | |
| DC-17 | 12/16/2015 | 15.1 | |
| DC-17 | 3/17/2017 | 13.9 | |
| DC-17 | 10/23/2017 | 8.06 | |
| DC-17 | 1/26/2018 | 7.38 | |
| DC-17 | 4/20/2018 | 10.1 | |
| DC-17 | 7/20/2018 | 8.62 | |
| DC-17 | 10/19/2018 | 8.24 | |
| DC-17 | 5/21/2019 | 8.62 | |
| DC-17 | 10/30/2019 | 5.72 | |
| DC-17 | 12/9/2021 | 0.810 | |
| DC-18 | 4/25/2007 | 19 | |
| DC-18 | 4/5/2012 | 7.2 | |
| DC-18 | 5/30/2013 | 4.8 | |
| DC-18 | 10/28/2014 | 3.0 | |
| DC-18 | 12/14/2015 | 3.19 | |
| DC-18 | 3/16/2017 | 3.24 | |
| DC-18 | 10/26/2017 | 3.26 | Chloroform (3.00) |
| DC-18 | 4/20/2018 | 3.31 | Chloroform (3.23) |
| DC-18 | 10/19/2018 | 2.79 | Chloroform (2.36) |
| DC-19 | 6/4/2007 | 0.79 | |
| DC-19 | 4/14/2008 | 0.66 | |
| DC-19 | 4/4/2012 | 2.0 U | |
| DC-20 | 6/2/2008 | 8.1 | |
| DC-20 | 5/30/2013 | 1.7 | |
| DC-20 | 4/14/2014 | 1.4 | |
| DC-20 | 10/28/2014 | 1.0 U | |
| DC-20 | 12/15/2015 | 1.74 | 1,2-Dichloropropane (1.82) |
| DC-20 | 3/15/2017 | 2.00 | |
| DC-20 | 10/27/2017 | 0.991 | |
| DC-20 | 4/19/2018 | 1.14 | |
| DC-20 | 10/19/2018 | 0.885 | Benzene (0.54), sec-Butylbenzene (0.6 0) |
| KMW-1 | 4/11/2006 | 1.0 U | |
| KMW-1 | 10/26/2006 | 1.0 U | |
| KMW-1 | 4/25/2007 | 0.2 U | |
| KMW-1 | 4/14/2008 | 0.2 U | Chloroform (0.450) |
| KMW-1 | 4/3/2012 | 2.0 U | |
| KMW-2 | 6/12/2006 | 130 | |

**Table C3
 Historical Summary of Groundwater Analytical Results (1999 - 2021)
 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|-----------------|------------|------------|----------------------------|
| KMW-2 | 8/8/2006 | 130 | |
| KMW-2 | 10/26/2006 | 190 | |
| KMW-2 | 4/24/2007 | 63 | |
| KMW-2 | 4/16/2008 | 96 | |
| KMW-2 | 3/8/2010 | 81 | |
| KMW-2 | 11/3/2010 | 74 | |
| KMW-2 | 6/1/2011 | 12 | Acetone (140) |
| KMW-2 | 7/20/2011 | 44 | |
| KMW-2 | 10/19/2011 | 40 | |
| KMW-2 | 4/6/2012 | 25 | |
| KMW-2 | 5/31/2013 | 22 | |
| KMW-2 | 10/29/2014 | 18 | |
| KMW-2 | 12/15/2015 | 15 | |
| KMW-2 | 12/15/2016 | 1.18 | |
| KMW-2 | 3/14/2017 | 1.00 | U |
| KMW-2 | 7/18/2017 | 1.00 | U |
| KMW-2 | 10/24/2017 | 0.500 | U |
| KMW-2 | 4/18/2018 | 0.500 | U |
| KMW-2 | 10/16/2018 | 0.500 | U |
| | | | |
| KMW-3 | 6/12/2006 | 20 | |
| KMW-3 | 10/26/2006 | 13 | |
| KMW-3 | 4/24/2007 | 9.9 | |
| KMW-3 | 11/2/2010 | 11 | |
| KMW-3 | 5/31/2011 | 6.2 | |
| KMW-3 | 7/20/2011 | 12 | |
| KMW-3 | 10/18/2011 | 11 | |
| KMW-3 | 4/3/2012 | 6.8 | |
| KMW-3 | 10/28/2014 | 1.0 | U |
| KMW-3 | 3/14/2017 | 3.23 | |
| KMW-3 | 10/26/2017 | 5.78 | |
| KMW-3 | 1/25/2018 | 4.95 | |
| KMW-3 | 4/20/2018 | 5.37 | |
| KMW-3 | 7/19/2018 | 5.18 | |
| KMW-3 | 10/23/2018 | 5.41 | |
| KMW-3 | 10/25/2019 | 4.74 | |
| KMW-3 | 12/9/2021 | 3.40 | |
| | | | |
| KMW-4 | 4/25/2007 | 0.73 | |
| KMW-4 | 4/3/2012 | 2.0 | U |
| | | | |
| KMW-5 | 4/25/2007 | 0.82 | |
| KMW-5 | 4/3/2012 | 2.0 | U |
| | | | |
| KMW-6 | 4/24/2007 | 3.8 | |
| KMW-6 | 4/3/2012 | 2.0 | U |
| | | | |
| KMW-7 | 4/24/2007 | 3.8 | |

**Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|------------------------------|------------|------------|----------------------------|
| KMW-7 | 4/15/2008 | 3.9 | |
| KMW-7 | 11/3/2010 | 2.0 U | |
| KMW-7 | 5/30/2011 | 2.3 | |
| KMW-7 | 7/20/2011 | 2.0 U | |
| KMW-7 | 10/18/2011 | 2.0 U | |
| KMW-7 | 4/3/2012 | 3.3 | |
| KMW-7 | 10/28/2014 | 2.0 | p-isopropyltoluene (2.8) |
| KMW-7 | 12/15/2015 | 2.17 | |
| KMW-7 | 3/16/2017 | 1.17 | |
| KMW-7 | 10/25/2017 | 0.500 U | |
| KMW-7 | 4/19/2018 | 1.59 | |
| KMW-7 | 10/23/2018 | 0.711 | |
| KMW-7 | 10/29/2019 | 0.631 | |
| KMW-7 | 12/10/2021 | 0.620 | |
| | | | |
| KMW-8 | 4/24/2007 | 11 | |
| KMW-8 | 4/15/2008 | 17.4 | |
| KMW-8 | 4/3/2012 | 10 | |
| KMW-8 | 10/28/2014 | 5.9 | |
| KMW-8 | 12/15/2015 | 3.98 | |
| KMW-8 | 3/16/2017 | 6.71 | |
| KMW-8 | 7/19/2017 | 5.00 | |
| KMW-8 | 10/26/2017 | 4.99 | Chloroform (1.15) |
| KMW-8 | 1/25/2018 | 5.89 | Chloroform (2.01) |
| KMW-8 | 4/19/2018 | 5.74 | Chloroform (1.68) |
| KMW-8 | 7/19/2018 | 5.17 | Chloroform (1.13) |
| KMW-8 | 10/23/2018 | 5.26 | Chloroform (1.16) |
| KMW-8 | 10/28/2019 | 6.24 | |
| KMW-8 | 12/10/2021 | 1.94 | |
| | | | |
| KMW-9 | 4/26/2007 | 9.3 | |
| KMW-9 | 3/8/2010 | 4.4 | |
| KMW-9 | 11/4/2010 | 2.8 | |
| KMW-9 | 4/5/2012 | 4.0 | |
| KMW-9 | 4/15/2014 | 1.0 | |
| KMW-9 | 10/27/2014 | 1.0 U | |
| KMW-9 | 12/10/2015 | 1.47 | |
| KMW-9 | 3/15/2017 | 2.07 | |
| KMW-9 | 10/26/2017 | 0.770 | |
| KMW-9 | 4/18/2018 | 1.02 | |
| KMW-9 | 10/18/2018 | 0.500 U | Chloroform (0.699) |
| | | | |
| Deep Monitoring Wells | | | |
| | | | |
| MW-19 | 10/29/2019 | 0.500 U | Chloroform (0.560) |
| MW-19 | 12/4/2019 | 0.500 U | |
| | | | |
| DC-5 | 2/4/1999 | 2.4 | |

**Table C3
 Historical Summary of Groundwater Analytical Results (1999 - 2021)
 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|---|------------|------------|---------------------------------|
| DC-5 | 4/8/1999 | 1.6 | Chloroform (2.6), Toluene (1.0) |
| DC-5 | 7/25/2005 | 37 | |
| DC-5 | 4/11/2006 | 1.3 | |
| DC-5 | 4/26/2007 | 2.1 | |
| DC-5 | 11/3/2010 | 2.1 | |
| DC-5 | 5/30/2011 | 2.0 | U |
| DC-5 | 7/19/2011 | 2.0 | U |
| DC-5 | 10/18/2011 | 2.0 | U |
| DC-5 | 4/6/2012 | 2.0 | U |
| DC-5 | 5/29/2013 | 1.0 | U |
| DC-9B | 4/8/1999 | 1.4 | Chloroform (1.4), Toluene (2.9) |
| DC-9B | 3/6/2001 | 2.0 | |
| DC-9B | 6/20/2001 | 1.0 | U |
| DC-9B | 9/17/2001 | 1.0 | U |
| DC-9B | 12/20/2001 | 6.4 | |
| DC-9B | 7/25/2005 | 1.0 | U |
| DC-9B | 4/11/2006 | 1.0 | U |
| DC-9B | 8/8/2006 | 1.0 | U |
| DC-9B | 10/26/2006 | 1.0 | U |
| DC-9B | 4/26/2007 | 0.2 | U |
| DC-9B | 4/15/2008 | 0.60 | |
| * Monitoring well has been decommissioned | | | |
| DC-10B | 4/8/1999 | 1.8 | Chloroform (1.2), Toluene (1.9) |
| DC-10B | 3/6/2001 | 3.3 | TCE (1.7) |
| DC-10B | 6/20/2001 | 2.4 | |
| DC-10B | 9/17/2001 | 1.0 | U |
| DC-10B | 12/20/2001 | 1.0 | U |
| DC-10B | 7/25/2005 | 1.0 | U |
| DC-10B | 4/11/2006 | 1.0 | U |
| DC-10B | 4/26/2007 | 0.34 | |
| DC-10B | 11/3/2010 | 2.6 | |
| DC-10B | 5/30/2011 | 2.0 | U Acetone (290) |
| DC-10B | 7/19/2011 | 2.0 | U Acetone (54) |
| DC-10B | 10/18/2011 | 2.0 | U Acetone (31) |
| DC-10B | 4/6/2012 | 2.0 | U |
| DC-16 | 4/25/2007 | 0.42 | |
| DC-16 | 11/5/2010 | 2.0 | U |
| DC-16 | 5/31/2011 | 2.0 | U |
| DC-16 | 7/19/2011 | 2.0 | U |
| DC-16 | 10/18/2011 | 2.0 | U |
| DC-16 | 4/6/2012 | 2.0 | U |
| KMW-5D | 4/25/2007 | 0.2 | U |
| KMW-5D | 4/3/2012 | 2.0 | U |

Table C3
Historical Summary of Groundwater Analytical Results (1999 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Monitoring Well | Date | PCE (µg/l) | Other VOCs detected (µg/l) |
|---|-------------|-------------------|-----------------------------------|
| <p><u>NOTES:</u></p> <ol style="list-style-type: none"> 1. Tetrachloroethene (PCE) concentrations in micrograms per liter (µg/l). 2. Groundwater samples analyzed using USEPA Method 8260B. 3. U = concentration not detected at or above the laboratory practical quantitation limit (PQL). 4. J = the identification of the analyte is acceptable; the reported value is an estimate 5. Detected concentrations are shown in bold. 6. Concentrations exceeding the cleanup level are bold and shaded. 7. Other detected VOCs are below their respective cleanup level unless otherwise noted. 8. Shallow monitoring wells are screened at the top of the shallow aquifer, and deep monitoring wells are screened below and deeper within the shallow aquifer. 9. Review of historical results indicate that DC-17 was inadvertently sampled as DC-5 in 2010, 2011 and 2012. This table reports the 2010 - 2012 DC-17 data as DC-5. | | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|-------------|--|------------|
| B-01 | 2 | 03/12/98 | 0.28 | | |
| B-01 | 5 | 03/12/98 | 35 | | |
| B-02 | 2 | 03/12/98 | 0.3 | | |
| B-02 | 4 | 03/12/98 | 1.2 | | |
| B-03 | 2 | 03/12/98 | 1.2 | | |
| B-03 | 5 | 03/12/98 | 1.3 | | |
| B-04 | 2 | 03/12/98 | 1.4 | | |
| B-04 | 2 | 03/12/98 | 0.88 | | Duplicate |
| B-04 | 5 | 03/12/98 | 0.99 | | |
| S-01 | 11 | 04/14/98 | 0.8 | | |
| S-01 | 20 | 04/14/98 | 0.6 | | |
| S-01 | 30 | 04/14/98 | ND U | | |
| S-01 | 34 | 04/14/98 | ND U | | |
| DC-01 | NA | 12/17/98 | ND U | | Composite |
| DC-02 | NA | 12/17/98 | 0.19 | | Composite |
| DC-03 | NA | 12/17/98 | ND U | | Composite |
| DC-04 | NA | 12/17/98 | 0.15 | | Composite |
| DC-04 | NA | 12/17/98 | 0.16 | | Duplicate |
| DC-03 | NA | 12/17/98 | 0.18 | | Comp (sat) |
| DC-04 | NA | 12/17/98 | ND U | | Comp (sat) |
| BH-01 | 3.5 | 12/16/98 | 0.88 | Ethylbenzene = 0.17 Xylenes = 0.63 | |
| BH-01 | 3.5 | 12/16/98 | 0.9 | Benzene = 0.15, Xylenes 0.66 | Duplicate |
| BH-01 | 9 | 12/16/98 | 0.19 | | |
| BH-02 | 8 | 12/16/98 | ND U | | |
| BH-03 | 7 | 12/16/98 | ND U | | |
| BH-04 | 7 | 12/16/98 | ND U | | |
| BH-05 | 6 | 12/16/98 | 2.2 | | |
| BH-05 | 6 | 12/16/98 | 2.2 | | Duplicate |
| BH-05 | 11 | 12/16/98 | ND U | | |
| BH-06 | 7 | 12/16/98 | ND U | | |
| BH-06 | 10 | 12/16/98 | ND U | cis-1,2-dichloroethene = 0.07 | |
| BH-07 | 1 | 12/16/98 | 0.1 | Benzene = 0.31 Toluene = 0.32 Xylenes = 0.38 | |
| BH-08 | 8 | 12/16/98 | ND U | | |
| BH-09 | 8 | 12/16/98 | ND U | Benzene = 0.66 Ethylbenzene = 1.1 | |
| BH-10 | 8 | 12/16/98 | ND U | | |
| BH-11 | 1 | 12/16/98 | ND U | | |
| BH-12 | 8 | 12/16/98 | ND U | | |
| BH-13 | 7 | 12/16/98 | 1.4 | | |
| BH-13 | 11 | 12/16/98 | ND U | | |

**Table C4
 Historical Summary of Soil Analytical Results (1998 - 2021)
 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|-------------|-----------------------------|-------------|
| BH-14 | 8 | 12/16/98 | 10 | | |
| BH-14 | 11 | 12/16/98 | 0.22 | | |
| BH-14 | 11 | 12/16/98 | 0.16 | | Duplicate |
| BH-14 | 20 | 12/16/98 | ND U | | |
| BH-15 | 6 | 12/17/98 | 1.1 | | |
| BH-15 | 11 | 12/17/98 | ND U | | |
| BH-16 | 7 | 12/17/98 | 0.3 | | |
| BH-16 | 11 | 12/17/98 | ND U | | |
| BH-17 | 11 | 12/17/98 | ND U | | |
| BH-18 | 7 | 12/17/98 | ND U | | |
| BH-18 | 11 | 12/17/98 | ND U | | |
| BH-19 | 8 | 12/17/98 | ND U | | |
| DC-05 | 56 | 01/22/99 | ND U | | |
| DC-06 | 40 | 01/22/99 | ND U | | |
| DC-07 | 35 | 01/22/99 | ND U | | |
| DC-08 | 35 | 01/22/99 | ND U | | |
| DC-9B | 35 | 04/05/99 | ND U | | |
| DC-10B | 50 | 04/05/99 | ND U | | |
| MW-01 | 2.5-4 | 12/09/99 | ND U | | |
| MW-02 | 32.5-34 | 12/09/99 | ND U | | |
| HA-01 | 4.5-5 | 12/22/99 | 0.05 U | | |
| HA-01 | 10.10.5 | 12/22/99 | 0.0685 | | |
| HA-01 | 12.5-13 | 12/22/99 | 0.05 U | | |
| T-01 | 4 | 07/26/00 | ND U | | S.Sewer Ex. |
| T-02 | 4 | 07/26/00 | ND U | | S.Sewer Ex. |
| T-03 | 3 | 07/26/00 | ND U | | S.Sewer Ex. |
| T-04 | 3 | 07/26/00 | ND U | | S.Sewer Ex. |
| SVS-04 | 0-4 | 02/11/05 | 0.0058 | | |
| SVS-05 | 0-4 | 02/11/05 | 0.0011 U | | |
| KB-01 | 4-5 | 04/15/05 | 0.02 U | | |
| KB-01 | 15-16 | 04/15/05 | 0.02 | | |
| KB-01 | 25-26 | 04/15/05 | 0.084 | | |
| KB-01 | 35-36 | 04/15/05 | 0.18 | | |
| KB-02 | 4-5 | 04/15/05 | 0.02 U | | |
| KB-02 | 15-16 | 04/15/05 | 0.02 U | | |
| KB-02 | 25-26 | 04/15/05 | 0.098 | | |
| KB-02 | 35-36 | 04/15/05 | 0.16 | | |
| KB-03 | 4-5 | 04/15/05 | 0.02 U | | |
| KB-03 | 15-16 | 04/15/05 | 0.02 U | | |
| KB-03 | 25-26 | 04/15/05 | 0.02 U | | |
| KB-04 | 4-5 | 04/15/05 | 0.02 U | | |
| KB-04 | 15-16 | 04/15/05 | 0.049 | | |
| KB-04 | 19-20 | 04/15/05 | 0.1 | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|------------------------|----------------|----------|--------------|--------------------------------|---------------|
| KB-05 | 4-5 | 04/15/05 | 0.02 U | | |
| KB-05 | 15-16 | 04/15/05 | 0.02 U | | |
| KB-05 | 25-26 | 04/15/05 | 0.035 | | |
| KB-05 | 35-36 | 04/15/05 | 0.055 | | |
| ST-01 | 6 | 03/29/06 | 0.07 | | Overexcavated |
| North Septic Sidewall | 9 | 04/05/06 | 0.005 U | | Sidewall |
| East Septic Sidewall | 9 | 04/05/06 | 0.033 | TCE = 0.019, cis-1,2-DCE=0.012 | Overexcavated |
| South Septic Sidewall | 9 | 04/05/06 | 0.005 U | | Sidewall |
| West Septic Sidewall | 9 | 04/05/06 | 0.005 U | | Sidewall |
| ST-02 | 6 | 04/05/06 | 0.006 | TCE = 0.005, cis-1,2-DCE=0.007 | Overexcavated |
| ST-03 | 7 | 04/05/06 | 0.016 | | Overexcavated |
| ST-04 | 7 | 04/05/06 | 0.073 | TCE = 0.026, cis-1,2-DCE=0.032 | Overexcavated |
| ST5 Clearance | 9 | 04/05/06 | 0.005 U | | Overexcavated |
| ST6 Clearance | 9 | 04/05/06 | 0.007 | | Bottom |
| East Septic Sidewall 2 | 11 | 04/06/06 | 0.005 U | | Sidewall |
| ST5 Clearance 2 | 12 | 04/05/06 | 0.005 U | | Bottom |
| KMW-01 | 7 | 07/25/05 | 0.05 U | | |
| KMW-01 | 22 | 07/25/05 | 0.05 U | | |
| KMW-01 | 40 | 07/25/05 | 0.05 U | | |
| KMW-02 | 10 | 05/01/06 | 0.05 U | | |
| KMW-02 | 20 | 05/01/06 | 0.05 U | | |
| KMW-02 | 30 | 05/01/06 | 0.05 U | | |
| KMW-03 | 10 | 05/01/06 | 0.05 U | | |
| KMW-03 | 20 | 05/01/06 | 0.05 U | | |
| TW-01 | 5 | 05/01/06 | 0.05 U | | |
| TW-01 | 10 | 05/01/06 | 0.05 U | | |
| TW-01 | 20 | 05/01/06 | 0.05 U | | |
| TW-01 | 30 | 05/01/06 | 0.05 U | | |
| KMW-04 | 4-5.5 | 03/28/07 | 0.05 U | | |
| KMW-04 | 9-10.5 | 03/28/07 | 0.05 U | | |
| KMW-04 | 19-20.5 | 03/28/07 | 0.05 U | | |
| KMW-04 | 29-30.5 | 03/28/07 | 0.05 U | | |
| KMW-05 | 4-5.5 | 03/28/07 | 0.05 U | | |
| KMW-05 | 9-10.5 | 03/28/07 | 0.05 U | | |
| KMW-05 | 19-20.5 | 03/28/07 | 0.05 U | | |
| KMW-05 | 29-30.5 | 03/28/07 | 0.05 U | | |
| KMW-5D | 4-5.5 | 03/28/07 | 0.05 U | | |
| KMW-5D | 9-10.5 | 03/28/07 | 0.05 U | | |
| KMW-5D | 24-25.5 | 03/28/07 | 0.05 U | | |
| KMW-5D | 46 | 03/28/07 | 0.05 U | | |
| KMW-06 | 9-10.5 | 03/27/07 | 0.05 U | | |
| KMW-06 | 19-20.5 | 03/27/07 | 0.05 U | | |
| KMW-06 | 29-30.5 | 03/27/07 | 0.05 U | | |
| KMW-06 | 41-42.5 | 03/27/07 | 0.05 U | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|---------------|-----------------------------|----------|
| KMW-07 | 9-10.5 | 03/27/07 | 0.05 U | | |
| KMW-07 | 19-20.5 | 03/27/07 | 0.05 U | | |
| KMW-07 | 29-30.5 | 03/27/07 | 0.05 U | | |
| KMW-08 | 9-10.5 | 03/27/07 | 0.05 U | | |
| KMW-08 | 20-21.5 | 03/27/07 | 0.05 U | | |
| KMW-08 | 29-30.5 | 03/27/07 | 0.05 U | | |
| KMW-09 | 5 | 03/27/07 | 0.0043 | | |
| KMW-09 | 14-15.5 | 03/27/07 | 0.2 | | |
| KMW-09 | 19-20.5 | 03/27/07 | 0.23 | | |
| KMW-09 | 24-25.5 | 03/27/07 | 1.8 | | |
| KMW-09 | 29-30.5 | 03/27/07 | 0.32 | | |
| KMW-09 | 34-35.5 | 03/27/07 | 0.29 | | Split |
| KMW-09 | 35 | 03/27/07 | 0.016 | | Split |
| KMW-09 | 39-40.5 | 03/27/07 | 0.053 | | |
| KGP-01 | 4 | 07/06/07 | 1.6 | | Split |
| KGP-01 | 4 | 07/06/07 | 13 | TCE = 0.15 | Split |
| KGP-01 | 8 | 07/06/07 | 59 | | Split |
| KGP-01 | 8 | 07/06/07 | 14 | | Split |
| KGP-01 | 10.5 | 07/06/07 | 2.1 | | |
| KGP-01 | 16 | 07/06/07 | 0.28 | | Split |
| KGP-01 | 16 | 07/06/07 | 0.08 | | Split |
| KGP-01 | 20 | 07/06/07 | 0.23 | | |
| KGP-01 | 23 | 07/06/07 | 0.15 | | |
| KGP-01 | 32 | 07/06/07 | 0.17 | | |
| KGP-01 | 38 | 07/06/07 | 0.051 | | |
| KGP-02 | 4 | 07/06/07 | 0.16 | | Split |
| KGP-02 | 4 | 07/06/07 | 0.087 | | Split |
| KGP-02 | 8 | 07/06/07 | 0.013 | | Split |
| KGP-02 | 8 | 07/06/07 | 0.0082 | | Split |
| KGP-02 | 10.5 | 07/06/07 | 0.064 | | |
| KGP-02 | 16 | 07/06/07 | 0.02 | | Split |
| KGP-02 | 16 | 07/06/07 | 0.022 | | Split |
| KGP-02 | 20 | 07/06/07 | 0.088 | | |
| KGP-02 | 23 | 07/06/07 | 0.033 | | |
| KGP-02 | 30-31 | 07/06/07 | 0.016 | | |
| KGP-02 | 37 | 07/06/07 | 0.015 | | |

**Table C4
 Historical Summary of Soil Analytical Results (1998 - 2021)
 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|-------------|-----------------------------|----------|
| KGP-03 | 2-4 | 07/06/07 | 0.001 | | Split |
| KGP-03 | 2-4 | 07/06/07 | 0.0017 | | Split |
| KGP-03 | 8 | 07/06/07 | 0.005 | | Split |
| KGP-03 | 8 | 07/06/07 | 0.0045 | | Split |
| KGP-03 | 10.5 | 07/06/07 | 0.007 | | |
| KGP-03 | 13-16 | 07/06/07 | 0.009 | | Split |
| KGP-03 | 13-16 | 07/06/07 | 0.0089 | | Split |
| KGP-03 | 20 | 07/06/07 | 0.009 | | |
| KGP-03 | 23 | 07/06/07 | 0.012 | | |
| KGP-03 | 29-32 | 07/06/07 | 0.011 | | |
| KGP-03 | 38 | 07/06/07 | 0.01 | | |
| GP-01 | 8-12 | 03/30/07 | 0.0008 | U | |
| GP-01 | 30-34 | 03/30/07 | 0.0067 | | |
| GP-02 | 4-8 | 04/02/07 | 0.0009 | U | |
| GP-02 | 28-32 | 04/02/07 | 0.0055 | | |
| GP-03 | 8-12 | 03/30/07 | 0.00099 | U | |
| GP-03 | 28-30 | 03/30/07 | 0.011 | | |
| GP-04 | 20-24 | 03/30/07 | 0.0023 | | |
| GP-05 | 4-8 | 04/03/07 | 0.0028 | | |
| GP-05 | 16-20 | 04/03/07 | 0.024 | | |
| GP-06 | 4-8 | 04/02/07 | 0.0011 | U | |
| GP-06 | 27-30 | 04/02/07 | 0.0033 | | |
| GP-07 | 4-8 | 04/02/07 | 0.00095 | U | |
| GP-07 | 30-34 | 04/02/07 | 0.0016 | | |
| GP-08 | 6 | 05/27/08 | 0.0017 | | |
| GP-08 | 10 | 05/27/08 | 0.0026 | | |
| GP-09 | 4 | 05/27/08 | 0.00086 | U | |
| GP-09 | 10 | 05/27/08 | 0.0019 | | |
| GP-10 | 4 | 05/27/08 | 0.001 | U | |
| GP-10 | 10 | 05/27/08 | 0.0017 | | |
| GP-11 | 6 | 05/27/08 | 0.0014 | | |
| GP-11 | 10 | 05/27/08 | 0.0013 | | |
| GP-12 | 6 | 05/27/08 | 0.0011 | | |
| GP-12 | 10 | 05/27/08 | 0.00092 | U | |
| DC-11 | 15-16.5 | 04/19/07 | 0.0013 | | |
| DC-11 | 30-31.5 | 04/19/07 | 0.0084 | | |
| DC-12 | 15-16.5 | 04/18/07 | 0.0024 | | |
| DC-13 | 15-16.5 | 04/19/07 | 0.00096 | | |
| DC-13 | 35-36.5 | 04/19/07 | 0.0081 | | |
| DC-14 | 15-16.5 | 04/17/07 | 0.0011 | U | |
| DC-15 | 15-16.5 | 04/16/07 | 0.0011 | U | |
| DC-16 | 15-16.5 | 04/17/07 | 0.0011 | U | |
| DC-17 | 15-16.5 | 04/16/07 | 0.001 | U | |
| DC-17 | 35-36.5 | 04/16/07 | 0.077 | | |
| DC-18 | 15-16.5 | 04/18/07 | 0.001 | U | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-------------|----------------|----------|----------------|-----------------------------|----------|
| DC-19 | 3.5-5 | 06/01/07 | 0.00077 U | | |
| DC-19 | 7.5-9 | 06/01/07 | 0.00069 U | | |
| DC-19 | 37.5-38 | 06/01/07 | 0.0047 | | |
| DC-20 | 10 | 05/28/08 | 0.0026 | | |
| DC-20 | 35 | 05/28/08 | 0.0018 | | |
| TP-01 | 4 | 05/12/08 | 0.001 | | Split |
| TP-01 | 4 | 05/12/08 | 0.02 U | | Split |
| TP-01 | 6.5 | 05/12/08 | 0.0012 U | | Split |
| TP-01 | 6.5 | 05/12/08 | 0.02 | | Split |
| TP-02-south | 4 | 05/12/08 | 0.0068 | | Split |
| TP-02-south | 4 | 05/12/08 | 0.27 | | Split |
| TP-02-north | 4 | 05/12/08 | 0.05 | | |
| TP-03 | 3.5 | 05/12/08 | 0.014 | | Split |
| TP-03 | 3.5 | 05/12/08 | 0.02 | | Split |
| TP-05 | 2.5 | 05/12/08 | 0.34 | | |
| B-05 | 10 | 03/26/08 | 0.00287 U | | |
| B-05 | 20 | 03/26/08 | 0.0034 | | |
| B-05 | 30 | 03/26/08 | 0.00888 | | |
| B-06 | 10 | 03/25/08 | 0.00302 U | | |
| B-06 | 20 | 03/25/08 | 0.00816 | | |
| B-06 | 30 | 03/25/08 | 0.00899 | | |
| B-07 | 10 | 03/25/08 | 0.000151 U | | |
| B-07 | 20 | 03/25/08 | 0.00351 | | |
| B-07 | 30 | 03/25/08 | 0.00884 | | |
| B-08 | 10 | 03/26/08 | 0.00654 | | |
| B-08 | 20 | 03/26/08 | 0.00554 | | |
| B-08 | 30 | 03/26/08 | 0.00562 | | |
| B-09 | 10 | 03/25/08 | 0.00616 | | |
| B-09 | 20 | 03/25/08 | 0.0143 | | |
| B-09 | 30 | 03/25/08 | 0.0116 | | |
| B-10 | 10 | 03/24/08 | 0.671 | | |
| B-10 | 20 | 03/24/08 | 0.0508 | | |
| B-10 | 30 | 03/24/08 | 0.0154 | | |
| B-11 | 10 | 03/27/08 | 0.0324 | | |
| B-11 | 20 | 03/27/08 | 0.346 | | |
| B-11 | 30 | 03/27/08 | 0.279 | | |
| B-12 | 10 | 03/27/08 | 0.00292 U | | |
| B-12 | 20 | 03/27/08 | 0.00299 | | |
| B-12 | 30 | 03/27/08 | 0.00848 | | |
| B-13 | 10 | 03/27/08 | 0.0311 | | |
| B-13 | 20 | 03/27/08 | 0.0314 | | |
| B-13 | 30 | 03/27/08 | 0.0231 | | |
| B-14 | 10 | 03/24/08 | 0.0118 | | |
| B-14 | 20 | 03/24/08 | 0.0296 | | |
| B-14 | 30 | 03/24/08 | 0.594 | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|----------------|-----------------------------|----------|
| B-15 | 10 | 03/24/08 | 0.00532 | | |
| B-15 | 20 | 03/24/08 | 0.0188 | | |
| B-15 | 30 | 03/24/08 | 0.00785 | | |
| B-16 | 10 | 03/25/08 | 0.00324 U | | |
| B-16 | 20 | 03/25/08 | 0.00324 U | | |
| B-16 | 24 | 03/25/08 | 0.000139 U | | |
| B-17 | 10 | 03/26/08 | 0.00269 U | | |
| B-17 | 20 | 03/26/08 | 0.00251 U | | |
| B-17 | 30 | 03/26/08 | 0.00244 U | | |
| SB-01 | 10 | 04/19/11 | 0.01 U | | |
| SB-01 | 20 | 04/19/11 | 0.01 U | | |
| SB-01 | 30 | 04/19/11 | 0.01 U | | |
| SB-02 | 10 | 04/19/11 | 0.01 U | | |
| SB-02 | 20 | 04/19/11 | 0.01 U | | |
| SB-02 | 30 | 04/19/11 | 0.01 U | | |
| SB-03 | 10 | 04/19/11 | 0.01 U | | |
| SB-03 | 20 | 04/19/11 | 0.01 U | | |
| SB-03 | 30 | 04/19/11 | 0.01 U | | |
| SB-04 | 5 | 03/01/12 | 0.01 U | | |
| SB-04 | 10 | 03/01/12 | 0.01 U | | |
| SB-04 | 20 | 03/01/12 | 0.01 U | | |
| SB-04 | 30 | 03/01/12 | 0.01 U | | |
| SB-04 | 34 | 03/01/12 | 0.01 U | | |
| SB-05 | 10 | 02/29/12 | 0.01 U | | |
| SB-05 | 20 | 02/29/12 | 0.01 U | | |
| SB-05 | 30 | 02/29/12 | 0.01 U | | |
| SB-06 | 5 | 02/29/12 | 0.01 U | | |
| SB-06 | 10 | 02/29/12 | 0.028 | | |
| SB-06 | 20 | 02/29/12 | 0.01 U | | |
| SB-06 | 30 | 02/29/12 | 0.01 U | | |
| SB-06 | 38 | 02/29/12 | 0.01 U | | |
| SB-07 | 5 | 03/01/12 | 0.01 U | | |
| SB-07 | 20 | 03/01/12 | 0.01 U | | |
| SB-07 | 30 | 03/01/12 | 0.01 U | | |
| SB-07 | 38 | 03/01/12 | 0.01 U | | |
| SB-07 | 43 | 03/01/12 | 0.01 U | | |
| SB-08 | 10 | 02/29/12 | 0.01 U | | |
| SB-08 | 20 | 02/29/12 | 0.01 U | | |
| SB-08 | 30 | 02/29/12 | 0.01 U | | |
| SB-09 | 2 | 04/28/12 | ND U | | |
| SB-09 | 8 | 04/28/12 | 0.013 | | |
| SB-09 | 12 | 04/28/12 | ND U | | |
| SB-09 | 20 | 04/28/12 | ND U | | |
| AS-2 | 5 | 09/29/14 | 0.0011 U | Acetone = 0.082 | |
| AS-3 | 10 | 10/01/14 | 0.0010 | | |
| AS-4 | 5 | 09/30/14 | 0.0011 | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|---------------|--|----------|
| AS-5 | 15 | 09/30/14 | 0.0040 | | |
| AS-6 | 5 | 09/26/14 | 0.0042 | Acetone = 0.063 | |
| AS-7 | 5 | 09/24/14 | 0.0012 U | Acetone = 0.29 | |
| AS-8 | 3.5 | 09/30/14 | 0.0075 | | |
| | | | | n-butylbenzene = 0.0036, sec-butylbenzene = 0.002 p-isopropyltoluene = 0.0016 Naphthalene = 0.0041 1,2,4-Trimethlybenzene = 0.047 1,2,3-Trimethlybenzene = 0.014 1,3,5-Trimethlybenzene = 0.013 | |
| AS-8 | 25 | 10/17/14 | 0.029 | Total xylenes = 0.011 | |
| AS-9 | 3 | 09/30/14 | 0.0039 | | |
| | | | | n-butylbenzene = 0.0034, sec-butylbenzene = 0.0014 p-isopropyltoluene = 0.0012 Naphthalene = 0.0088 n-propylbenzene = 0.0029 1,2,4-Trimethlybenzene = 0.042 1,2,3-Trimethlybenzene = 0.016 1,3,5-Trimethlybenzene = 0.010 | |
| AS-9 | 25 | 10/16/14 | 0.012 | Total xylenes = 0.0078 | |
| AS-10 | 3 | 10/01/14 | 0.0011 U | Acetone = 0.069 | |
| AS-10 | 8 | 10/14/14 | 0.007 | | |
| AS-11 | 3 | 10/01/14 | 0.0011 | | |
| AS-11 | 10 | 10/13/14 | 0.0021 | | |
| | | | | Acetone = 0.100 n-butylbenzene = 0.0013, n-propylbenzene = 0.0019 1,2,4-Trimethlybenzene = 0.020 1,2,3-Trimethlybenzene = 0.0053 1,3,5-Trimethlybenzene = 0.006 | |
| AS-12 | 3 | 10/01/14 | 0.0017 | Total xylenes = 0.0084 | |
| AS-12 | 8 | 10/10/14 | 0.017 | | |
| AS-13 | 3 | 10/01/14 | 0.0028 | | |
| AS-13 | 8 | 10/01/14 | 0.0022 | | |
| AS-14 | 3 | 09/29/14 | 0.0038 | | |
| AS-14 | 8 | 10/08/14 | 0.0021 | | |
| AS-15 | 3 | 09/29/14 | 0.014 | Acetone = 0.11 | |
| AS-15 | 8 | 10/06/14 | 0.0031 | | |
| AS-16 | 3 | 09/29/14 | 0.018 | | |
| AS-16 | 15 | 10/07/14 | 0.0032 | | |
| AS-17 | 3 | 09/29/14 | 0.044 | Acetone = 0.33, MEK = 0.011 | |
| | | | | 1,2,4-Trimethlybenzene = 0.0028 1,2,3-Trimethlybenzene = 0.001 | |
| AS-17 | 8 | 10/03/14 | 0.0071 | | |
| AS-17 | 30 | 10/03/14 | 0.0022 | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|-------------|---|----------|
| AS-18 | 3 | 09/29/14 | 0.0049 | | |
| AS-18 | 8 | 10/02/14 | 0.0014 | | |
| AS-19 | 3 | 09/29/14 | 0.0091 | | |
| | | | | n-butylbenzene = 1.4 sec-butylbenzene = 0.67 2-Chlorotoluene = 0.48 4-Chlorotoluene = 0.52 Ethylbenzene = 0.94 Cumene = 0.41 p-isopropyltoluene = 0.41 Naphthalene = 1.5 n-propylbenzene = 1.8 Styrene = 0.089 1,1,2,2-Tetrachloroethane = 0.45 Toluene = 0.13 1,2,3-Trichlorotoluene = 0.036 1,1,2-Trichloroethane = 0.34 1,2,4-Trimethylbenzene = 18 1,2,3-Trimethylbenzene = 4.6 1,3,5-Trimethylbenzene = 5.0 Total xylenes = 7.7 | |
| AS-19 | 8 | 10/02/14 | 0.094 | | |
| AS-20 | 3 | 09/29/14 | 0.012 | | |
| AS-20 | 10 | 10/06/14 | 0.0033 | 1,2,4-Trimethylbenzene = 0.0029 | |
| AS-21 | 3 | 10/01/14 | 0.0034 | | |
| AS-21 | 8 | 10/07/14 | 0.0038 | | |
| AS-22 | 3 | 10/01/14 | 0.0066 | Acetone = 0.062 | |
| AS-22 | 8 | 10/01/14 | 0.0052 | | |
| | | | | Acetone = 0.073 n-butylbenzene = 0.0097 sec-butylbenzene = 0.0059 Ethylbenzene = 0.0072 Cumene = 0.0041 p-isopropyltoluene = 0.0036 Naphthalene = 0.022 n-propylbenzene = 0.019 1,2,4-Trimethylbenzene = 0.18 1,2,3-Trimethylbenzene = 0.052 1,3,5-Trimethylbenzene = 0.047 Total xylenes = 0.076 | |
| AS-22 | 10 | 10/08/14 | 0.0027 | | |
| AS-23 | 3 | 09/30/14 | 0.0012 | | |
| AS-23 | 8 | 09/30/14 | 0.0022 | | |
| AS-23 | 10 | 10/10/14 | 0.0038 | | |
| AS-24 | 3 | 09/30/14 | 0.0074 | Acetone = 0.066 | |
| AS-24 | 8 | 09/30/14 | 0.0013 | | |
| AS-24 | 10 | 10/14/14 | 0.0022 | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|-------------|--|----------|
| AS-25 | 3 | 10/01/14 | 0.0017 | | |
| AS-25 | 10 | 10/15/14 | 0.0020 | | |
| AS-26 | 3 | 09/30/14 | 0.0093 | Acetone = 0.057 | |
| AS-26 | 8 | 09/30/14 | 0.0089 | Acetone = 0.057 | |
| AS-26 | 10 | 10/16/14 | 0.0067 | | |
| AS-27 | 3 | 09/30/14 | 0.0051 | | |
| AS-27 | 8 | 10/17/14 | 0.015 | | |
| AS-28 | 10 | 09/22/14 | 0.0082 | | |
| AS-29 | 5 | 09/23/14 | 0.0034 | Acetone = 0.21, MEK = 0.018 | |
| AS-30 | 5 | 09/25/14 | 0.0015 | | |
| AS-31 | 5 | 09/25/14 | 0.0011 U | Acetone = 0.076 | |
| SVE-14 | 3.5 | 09/30/14 | 0.0011 U | | |
| SVE-14 | 8.5 | 10/13/14 | 0.0012 | 1,2,4-Trimethlybenzene = 0.0044 1,2,3-Trimethlybenzene = 0.0019 1,3,5-Trimethlybenzene = 0.0015 | |
| SVE-15 | 3 | 11/01/14 | 0.0018 | | |
| SVE-15 | 8 | 10/15/14 | 0.0024 | | |
| SVE-16 | 3 | 09/30/14 | 0.0037 | | |
| SVE-16 | 10 | 10/15/14 | 0.008 | n-butylbenzene = 0.0048 sec-butylbenzene = 0.0028 Ethylbenzene = 0.0013 Cumene = 0.0013 p-isopropyltoluene = 0.0023 Napthalene = 0.0075 n-propylbenzene = 0.0057 Styrene = 0.089 1,1,2,2-Tetrachloroethane = 0.45 1,2,4-Trimethlybenzene = 0.074 1,2,3-Trimethlybenzene = 0.023 1,3,5-Trimethlybenzene = 0.021 Total xylenes = 0.020 | |
| SVE-17 | 5 | 09/24/14 | 0.026 | | |
| SVE-18 | 5 | 09/23/14 | 0.0024 | | |
| SVE-19 | 5 | 09/29/14 | 0.0011 U | | |
| SB-10 | 6 | 04/16/18 | 0.193 | | |
| SB-10 | 10 | 04/16/18 | 0.0359 U | | |
| SB-11 | 8 | 04/16/18 | 0.0347 U | | |
| SB-11 | 15 | 04/16/18 | 0.0353 U | | |
| SB-12 | 1 | 04/16/18 | 0.0348 U | | |
| SB-12 | 5 | 04/16/18 | 0.138 | | |
| SB-12 | 10 | 04/16/18 | 0.0325 U | | |

**Table C4
 Historical Summary of Soil Analytical Results (1998 - 2021)
 Manhattan Village Shopping Center and Harris Properties
 Normandy Park, Washington**

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|---------------|-----------------------------|----------|
| SB-13 | 5 | 04/16/18 | 0.0350 U | | |
| SB-13 | 10 | 04/16/18 | 0.128 | | |
| SB-13 | 20 | 04/16/18 | 6.03 | | |
| SB-13 | 29 | 04/16/18 | 0.110 | | |
| SB-13b | 36 | 04/25/18 | 0.0829 | | |
| SB-13b | 40 | 04/25/18 | 0.128 | | |
| SB-14 | 5 | 04/16/18 | 0.0317 U | | |
| SB-14 | 10 | 04/16/18 | 0.0298 U | | |
| SB-14 | 20 | 04/16/18 | 0.0253 U | | |
| SB-14 | 30 | 04/16/18 | 0.109 | | |
| SB-14a | 40 | 04/25/18 | 0.105 | | |
| SB-15 | 10 | 04/17/18 | 0.0334 U | | |
| SB-15 | 20 | 04/17/18 | 0.0781 | | |
| SB-15 | 30 | 04/17/18 | 0.0645 | | |
| SB-15 | 40 | 04/17/18 | 0.132 | | |
| SB-16 | 20 | 04/17/18 | 0.0366 U | | |
| SB-16 | 30 | 04/17/18 | 0.0505 | | |
| SB-16 | 40 | 04/17/18 | 0.0575 | | |
| SB-17 | 20 | 04/18/18 | 0.0435 | | |
| SB-17 | 30 | 04/18/18 | 0.0281 U | | |
| SB-17 | 40 | 04/18/18 | 0.0286 | | |
| SB-18 | 30 | 04/18/18 | 0.0429 | | |
| SB-18 | 40 | 04/18/18 | 0.0284 | | |
| SB-26 | 2 | 04/24/18 | 0.0960 | | |
| SB-26 | 4 | 04/24/18 | 0.0292 U | | |
| SB-26 | 10 | 04/24/18 | 0.0433 U | | |
| SB-26 | 20 | 04/24/18 | 0.0763 | | |
| SB-26 | 30 | 04/24/18 | 0.0647 | | |
| SB-26 | 40 | 04/24/18 | 0.0340 U | | |
| SB-27 | 2 | 04/24/18 | 0.0800 | | |
| SB-27 | 4 | 04/24/18 | 0.0426 U | | |
| SB-27 | 10 | 04/24/18 | 0.0339 U | | |
| SB-27 | 20 | 04/24/18 | 0.0942 | | |
| SB-27 | 30 | 04/24/18 | 0.118 | | |
| SB-27 | 40 | 04/24/18 | 0.169 | | |
| SB-28 | 20 | 04/24/18 | 0.0323 U | | |
| SB-28 | 30 | 04/24/18 | 0.0784 | | |
| SB-28 | 40 | 04/24/18 | 0.0325 U | | |
| SB-30 | 30 | 04/25/18 | 0.0395 U | | |
| SB-30 | 35 | 04/25/18 | 0.142 | | |
| SB-30 | 40 | 04/25/18 | 0.0665 | | |
| MW-17 | 25 | 03/01/19 | 0.0244 U | | |
| MW-17 | 30 | 03/01/19 | 0.0267 U | | |
| MW-17 | 35 | 03/01/19 | 0.0543 | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|-----------------|--|-----------------------|
| MW-18 | 10 | 02/28/19 | 0.0314 U | | |
| MW-18 | 30 | 02/28/19 | 0.0288 | | |
| MW-18 | 35 | 02/28/19 | 0.0358 | | |
| MW-19 | 30.5 | 10/17/19 | 0.0271 U | | |
| MW-19 | 35 | 10/17/19 | 0.0717 | | |
| MW-19 | 38 | 10/17/19 | 0.107 | | |
| MW-19 | 44 | 10/17/19 | 0.0268 U | | |
| MW-20 | 30 | 10/17/19 | 0.0280 U | | |
| MW-20 | 35 | 10/17/19 | 0.0299 | | |
| SVE-20 | 2 | 08/31/20 | 0.0907 | | |
| SVE-20 | 8.5 | 08/31/20 | 1.54 | | |
| SVE-20 | 11 | 08/31/20 | 1.30 | Cis-1,2-dichloroethene = 0.0455; Trichloroethene = 0.0226 | |
| SVE-21 | 2 | 08/31/20 | 0.254 | | |
| SVE-21 | 12 | 08/31/20 | 0.0381 | | |
| SVE-21 | 25 | 08/31/20 | 0.0558 | | |
| SVE-21 | 35 | 08/31/20 | 0.135 | | |
| SVE-22 | 2 | 09/01/20 | 0.0320 | | |
| SVE-22 | 26 | 09/01/20 | 0.102 | | |
| SVE-22 | 32 | 09/01/20 | 0.105 | | |
| SVE-23 | 2 | 09/01/20 | 0.0270 U | | |
| SVE-23 | 19 | 09/01/20 | 0.0252 | 1,2,3-Trichlorobenzene = 0.0254; Hexachlorobutadiene = 0.0313 | |
| SVE-23 | 25 | 09/01/20 | 0.0489 | | |
| SVE-24 | 3 | 08/31/20 | 0.0315 U | | |
| SVE-24 | 8 | 09/01/20 | 0.0215 U | | Vert depth = 5.7 ft |
| SVE-24 | 13.5 | 09/01/20 | 0.0245 U | | Vert depth = 9.6 ft |
| SVE-25 | 2 | 09/01/20 | 0.0269 U | | |
| SVE-25 | 11.5 | 09/02/20 | 0.0373 | | Vert depth = 8.2 ft |
| SVE-25 | 43.5 | 09/02/20 | 0.063 | | Vert depth = 30.9 ft |
| SVE-25 | 49 | 09/02/20 | 0.0422 | | Vert depth = 34.8 ft |
| Trench | 2.5 | 09/02/20 | 0.0240 U | | Adj. to sanitary line |
| EX-1 | 1.5 | 09/17/20 | 0.144 | | |
| EX-1 | 4 | 09/17/20 | 0.0242 U | | |
| EX-2 | 1 | 09/17/20 | 0.0233 U | | |
| EX-2 | 4 | 09/17/20 | 0.0260 U | | |
| EX-3 | 3 | 09/17/20 | 0.0239 U | | |
| EX-3 | 4 | 09/17/20 | 0.0240 U | | |
| EX-4 | 2 | 09/17/20 | 0.130 | | |
| EX-4 | 4 | 09/17/20 | 0.0224 U | | |
| EX-5 | 2 | 09/17/20 | 0.0237 U | | |
| EX-6 | 3 | 09/17/20 | 0.00565 U | | |
| EX-7 | 2 | 09/17/20 | 0.00620 U | | |
| EX-8 | 1.5 | 09/17/20 | 0.00632 U | | |
| EX-9 | 3 | 09/17/20 | 0.00666 U | | |

Table C4
Historical Summary of Soil Analytical Results (1998 - 2021)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

| Sample ID | Depth (ft bgs) | Date | PCE (mg/kg) | Other VOCs detected (mg/kg) | Comments |
|-----------|----------------|----------|---------------|-----------------------------|----------|
| EX-10 | 3 | 09/17/20 | 0.00588 U | | |
| EX-11 | 2 | 09/17/20 | 0.00642 U | | |
| EX-12 | 2 | 09/17/20 | 0.00606 U | | |
| EX-13 | 2 | 09/17/20 | 0.00642 U | | |
| EX-14 | 2 | 09/17/20 | 0.00608 U | | |
| EX-15 | 2 | 09/17/20 | 0.00576 U | | |
| EX-16 | 1.5 | 01/27/21 | 0.0214 U | | |
| EX-17 | 1.5 | 01/27/21 | 0.0876 | | |
| EX-18 | 1.5 | 01/27/21 | 0.0236 U | | |
| EX-19 | 2 | 01/27/21 | 0.0265 U | | |
| EX-20 | 2.5 | 01/27/21 | 0.0231 U | | |
| EX-21 | 2 | 01/27/21 | 0.0229 U | | |
| EX-22 | 2.5 | 01/27/21 | 0.0237 U | | |
| EX-23 | 2 | 01/27/21 | 0.0273 U | | |
| EX-24 | 2 | 01/27/21 | 0.0242 U | | |
| EX-25 | 3 | 01/27/21 | 0.0264 U | | |
| EX-26 | 3 | 01/27/21 | 0.0231 U | | |
| EX-27 | 3 | 01/27/21 | 0.0193 U | | |

NOTES:

1. Tetrachloroethene (PCE) concentrations in milligrams per kilogram (mg/kg).
2. Samples analyzed using USEPA Methods 8260 (and by 8021B in 1998 through 2000 only). Samples EX-6 EX-15 analyzed by EPA Method 8260-SIM
3. ND and U = concentration not detected at or above the laboratory practical quantitation limit (PQL).
4. Detected concentrations are shown in **bold**.
5. Concentrations exceeding the PCE MTCA Method A cleanup level of 0.050 mg/kg are **bold and shaded**.
6. Other detected VOCs - only those which are above their respective cleanup level are listed.
7. SVE-24 and SVE-25 were installed at a 45 degree angle and sample depths indicate length along boring. Vertical depths are included in the comments.

Table C5

**Soil Vapor Results - March 11 and June 3, 2019
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington**

| Parameter | CAS Number | Method B Screening Level | Commercial Worker Screening Level | Subslab Soil Gas Sample ID | | | | | | | | | | | | Soil Gas Sample ID | |
|--------------------------|------------|--------------------------|-----------------------------------|----------------------------|------------|------------|-------------|------------|------------|--------------|-------------|------------|-------------|------------|------------|--------------------|----------------|
| | | | | SVS-10 | | SVS-11 | | SVS-12 | SVS-13 | | SVS-14 | | SVS-15 | | SVS-16 | SVS-17 | |
| | | | | 3/11/2019 | 6/3/2019 | 3/11/2019 | 6/3/2019 | 6/3/2019 | 3/11/2019 | 6/3/2019 | 3/11/2019 | 6/3/2019 | 3/11/2019 | 6/3/2019 | 3/11/2019 | 3/11/2019 | 6/3/2019 |
| Screen Depth (ft) | | | | 1.3 | | 1.3 | | 1.3 | 1.2 | | 1.3 | | 1.3 | | 1.3 | 4.5 to 5 | |
| cis-1,2-Dichloroethene | 156-59-2 | 610 | 5,200 | 1.59 U | 1.59 U | 1.59 U | 15.0 | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1,230 | 8,600 |
| trans-1,2-Dichloroethene | 156-60-5 | 610 | 5,200 | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 1.59 U | 43.4 | 519 |
| Tetrachloroethene | 127-18-4 | 320 | 1,500 | 105 | 485 | 108 | 537 | 367 | 611 | 1,500 | 9.93 | 168 | 50.5 | 115 | 369 | 26,900 | 104,000 |
| Trichloroethene | 79-01-6 | 11.0 | 95 | 2.52 | 2.14 U | 2.14 U | 5.64 | 2.14 U | 2.14 U | 2.14 U | 2.14 U | 2.14 U | 2.14 U | 2.14 U | 2.14 U | 319 | 3,290 |
| Vinyl Chloride | 75-01-4 | 9.5 | 44 | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 1.02 U | 44.7 | 21.4 |

- NOTES:**
- All results in $\mu\text{g}/\text{m}^3$ (micrograms per cubic meter).
 - U = not detected at or above the method reporting limit shown.
 - = not applicable
 - Soil gas screening levels from Ecology Cleanup Levels and Risk Calculation (CLARC) Vapor Intrusion Method B Table and Ecology Cleanup Levels and Risk Calculation (CLARC) Vapor Intrusion Worker - January 2023
 - Detected concentrations are shown in **bold**.
 - Concentrations exceeding the commercial remediation screening level are **bold and shaded**.
 - Only tetrachloroethene and breakdown daughter products are shown. See lab reports for other detected VOCs unrelated to tetrachloroethene including acetone, carbon disulfide, chloroform, chloromethane, 1,2-dichlorobenzene, 1,1-dichloroethene, 1,4-dioxane, ethanol, ethylbenzene, trichlorofluoromethane, dichlorofluoroethane, hexane, methylene chloride, 2-butanone, isopropyl alcohol, 1-propene, styrene, tetrahydrofuran, toluene, 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m,p-xylene, and o-xylene.
 - SVS-10 and SVS-11 were collected beneath the slab in Four Star Cleaners on MVSC Property.
 - SVS-12, SVS-13, SVS-14, SVS-15, and SVS-16 were collected beneath the slab in Archies Restaurant on Harris Property. The sample from SVS-12 was not analyzed in March 2019 due to leakage in the sampling train. SVS-16 was not sampled in June 2019 due to floor wax in sampling probe tip. SVS-12 and SVS-16 were decommissioned on June 2, 2022 due to floor wax clogging the probe tip.
 - SVS-17 is installed beneath the slab. The soil gas probed is installed in the asphalt paved alley behind Four Star Cleaners on MVSC Property.
 - SVS-18 was installed in the Kintsugi Physical Therapy Office on September 28, 2022. This probe has not yet been sampled.

ATTACHMENT D

UNDERGROUND INJECTION CONTROL PROGRAM AUTHORIZATION



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

August 25, 2022

Stan Harris
Harris Family LTD
711 S 234th Place
Des Moines, WA 98198
stanlindaharris@hotmail.com

RE: UIC Site 36841 – Well Registration and Authorization with the Underground Injection Control (UIC) Program, Normandy Park PCE (Site), 17817 1st Ave S, Normandy Park, WA

Stan Harris:

Ecology's UIC Program has reviewed your UIC registration application for the above-mentioned Site. Based on the information provided in the registration and the additional information provided per Ecology's request, the UIC wells are **Conditionally Rule-Authorized** and a State Waste Discharge Permit is not required to operate the wells under WAC 17-218 authorities.

The UIC registration number is 36841. The Site is also undergoing an independent remedial cleanup activities under Ecology's Voluntary Cleanup Program (VCP) that may be evaluated by the VCP to determine if the substantive requirements of the Model Toxics Control Act (MTCA) have been met; the VCP Project Number is NW1873.

The proposed cleanup action involves the installation of a permeable reactive barrier of BOS 100[®]. BOS 100[®] is an alloy of granular activated carbon containing 6.5 percent by weight of zero valent iron. The BOS 100[®] will be mixed with water to create a treatment slurry for injection into the subsurface target area. The slurry is expected to spread outwards from the injection point up to three feet allowing the BOS 100[®] mixture to trap and treat the chlorinated solvents (CS) in situ within the soil matrix. The consultant shall monitor for all CS plus required field parameters for migration and safety. If any CS or field parameter value is identified

outside the expected criteria, the injection operation must cease and be reported to the Ecology VCP Site Manager.

The injected compounds are intended to improve groundwater quality. There are inherent environmental risks associated with injecting compounds into groundwater. It is incumbent upon the owner and their representative to carefully characterize, manage, and monitor the site surface and subsurface conditions to minimize risk and prevent unforeseen degradation of groundwater quality and other environmental risks. Mobilized metals or other substances, injected chemicals, or hazardous bi-products, are not allowed to migrate beyond the site property boundary/monitoring wells listed above.

Conditional Rule-Authorization - Conditions of Use

Ecology will continue to conditionally rule-authorize the Site UIC registration for as long as the following conditions of use continue to be met by the owner/operator. The two UIC Program requirements for rule authorization are:

1. Registration of UIC wells (prior to use), and
2. The UIC well must meet the nonendangerment standard (WAC 173-218-080).

In addition, the other Site-specific UIC Program requirements for conditionally-rule authorization include:

- The groundwater analytical results from the monitoring well must meet the applicable MTCA groundwater cleanup levels.
- A one-time injection of a BOS 100® mixture consisting 111.5 pounds of BOS 100® mixed with 100 gallons of water into each of the 61 injection points. Onsite groundwater is not approved for use to mix with the remediation products for injection into the subsurface.
- The injections activities must follow the Remedial Action Work Plan¹ (RAWP). Any deviations from RAWP are not allowed unless the VCP Site Manager has approved those changes.
- The injections should not cause a further degradation to groundwater quality criteria at the down-gradient monitoring points per the state or federal applicable criteria. If such groundwater degradation occurs the injection activities shall cease and Ecology shall be notified no later than 24-hours from the groundwater degradation discovery.

¹ Remedial Action Work Plan Addendum No. 1, Manhattan Village Shopping Center and Harris Properties, PES Environmental, Inc., VCP NW1873, Normandy Park, Washington, dated June 29, 2021.

- Notification to Ecology's UIC Program of any change in UIC well status is a required element to this registration.
- The start date is planned for September 2022.

The Ecology Toxics Cleanup Program VCP Site Cleanup Manager will have final authority to determine if the cleanup actions described in your UIC registration have met the substantive requirement of the MTCA.

The Site will be conditionally rule-authorized for as long as the Groundwater Quality Standards continue to be met and the above items have been completed. Failure to capture any of the performance data listed above or violate the applicable cleanup standards may result in a denial, modification, or termination of a UIC registration.

At any time, Ecology may require you to apply for and obtain a Waste Discharge Permit for the continued use of these compounds. You may obtain a formal waste discharge approval for this project through the Ecology's State Waste Discharge Permit Program or the Toxics Cleanup Program.

The owner is responsible to retain all registration documents, plans, modeling, monitoring results, interim, and final reports. Upon Ecology request, the owner shall provide these documents to the UIC Program.

Under the presumptive approach, Ecology presumes the BMPs listed in your registration application and associated documents will be protective of Site groundwater quality and Ecology will presume the nonendangerment requirements of WAC 173-218-080 have been met.

Any material misrepresentations or omissions of fact supplied in this application may result in the denial or revocation of this registration authorization. Ecology's UIC Program has the authority to rescind a rule authorization if the system no longer meets the nonendangerment standard.

Please contact Eugene Radcliff at UICwells@ecy.wa.gov if you have any questions. You can find additional information on the UIC Program can at our website:

<https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Underground-injection-control-program>

Sincerely,

A handwritten signature in blue ink that reads "Eugene Radcliff". The signature is written in a cursive style with a large, stylized "E" and "R".

Eugene Radcliff, LG, LHG
Statewide UIC Program Coordinator
Water Quality Program

Cc:

Matt Dahl, PES Environmental, matt.dahl@nv5.com
Christopher Maurer, Department of Ecology (VCP), cm461@ecy.wa.gov
Department of Ecology - Internal UIC Database
Department of Ecology - UIC Resource Mailbox

ATTACHMENT E
WASTE DISPOSAL DOCUMENTATION

BILL OF LADING
PRODUCT TRANSPORT MANIFEST
MARINE VACUUM SERVICE, INC.
 24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240
 FAX NUMBER 206-763-8084
 TRUCK NUMBER 226 DATE 1-14-22

N° 00963

TO
 DESTINATION NAME Marine Vacuum Service, Inc.
 STREET 1516 South Graham St.
 CITY/STATE Seattle, WA 98108

FROM
 SHIPPER NAME PES ENVIRONMENTAL
 STREET 17817 1st AVE SE
 CITY/STATE NORMANDY PARK, WA

| QUANTITY | PROPER SHIPPING NAME | UN (PLACARD) NUMBER |
|-----------------|--|---------------------|
| <u>1500 GAL</u> | <u>NON-CWT Non Regulated by DOT</u> <u>Water non-reg by DOT</u> | |
| | | |
| | | |

RECEIVER R.B. ALLEN - MAR VAC DATE 1-14-22

SHIPPER [Signature] on behalf of Harris Family LTD DATE 1/14/22

NOTE: **MUST USE ONLY APPOINTED TANKERS**

Customer certifies to the best of their knowledge that the waste water being hauled / transferred by the above collector is NOT contaminated with industrial wastes and contaminated waters (such as oil, fuel, or any other types of chemical).



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.

Matt Dahl
2101 Fourth Avenue, Suite 1310
Seattle, WA 98121

RE: MVSC

Work Order Number: 2201038

January 12, 2022

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 1/5/2022 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes", is written over a light blue rectangular background.

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



Date: 01/12/2022

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 2201038

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------|---------------------|--------------------|
| 2201038-001 | Cond-010522 | 01/05/2022 12:00 PM | 01/05/2022 2:33 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: PES Environmental, Inc.

Project: MVSC

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: PES Environmental, Inc.

Collection Date: 1/5/2022 12:00:00 PM

Project: MVSC

Lab ID: 2201038-001

Matrix: Water

Client Sample ID: Cond-010522

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 34969

Analyst: TN

| | | | | | | |
|----------------------------------|----|-------|---|------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 1.25 | Q | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Chloromethane | ND | 0.750 | Q | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Vinyl chloride | ND | 0.200 | | µg/L | 1 | 1/12/2022 2:58:50 PM |
| Bromomethane | ND | 1.20 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Trichlorofluoromethane (CFC-11) | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Chloroethane | ND | 1.00 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,1-Dichloroethene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Acetone | ND | 6.00 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Methylene chloride | ND | 0.750 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| trans-1,2-Dichloroethene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,1-Dichloroethane | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| cis-1,2-Dichloroethene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 2-Butanone (MEK) | ND | 1.50 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Chloroform | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.400 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,1-Dichloropropene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Carbon tetrachloride | ND | 0.750 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.400 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Benzene | ND | 0.440 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Trichloroethene (TCE) | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2-Dichloropropane | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Bromodichloromethane | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Dibromomethane | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| cis-1,3-Dichloropropene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Toluene | ND | 0.750 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| trans-1,3-Dichloropropylene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Methyl Isobutyl Ketone (MIBK) | ND | 1.25 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,1,2-Trichloroethane | ND | 0.350 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,3-Dichloropropane | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Tetrachloroethene (PCE) | ND | 0.400 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Dibromochloromethane | ND | 1.00 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.300 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 2-Hexanone (MBK) | ND | 1.00 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Chlorobenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.300 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Ethylbenzene | ND | 0.400 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| m,p-Xylene | ND | 1.00 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| o-Xylene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |



Client: PES Environmental, Inc.

Collection Date: 1/5/2022 12:00:00 PM

Project: MVSC

Lab ID: 2201038-001

Matrix: Water

Client Sample ID: Cond-010522

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 34969

Analyst: TN

| | | | | | | |
|-------------------------------|------|----------|--|------|---|---------------------|
| Styrene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Isopropylbenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Bromoform | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.400 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| n-Propylbenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Bromobenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,3,5-Trimethylbenzene | ND | 0.250 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 2-Chlorotoluene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 4-Chlorotoluene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| tert-Butylbenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2,3-Trichloropropane | ND | 0.400 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2,4-Trichlorobenzene | ND | 0.750 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| sec-Butylbenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 4-Isopropyltoluene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,3-Dichlorobenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,4-Dichlorobenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| n-Butylbenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2-Dichlorobenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2-Dibromo-3-chloropropane | ND | 1.00 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2,4-Trimethylbenzene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Hexachloro-1,3-butadiene | ND | 0.500 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Naphthalene | ND | 1.25 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| 1,2,3-Trichlorobenzene | ND | 0.700 | | µg/L | 1 | 1/7/2022 4:33:32 PM |
| Surr: Dibromofluoromethane | 94.2 | 80 - 120 | | %Rec | 1 | 1/7/2022 4:33:32 PM |
| Surr: Toluene-d8 | 90.3 | 80 - 120 | | %Rec | 1 | 1/7/2022 4:33:32 PM |
| Surr: 1-Bromo-4-fluorobenzene | 91.0 | 80 - 120 | | %Rec | 1 | 1/7/2022 4:33:32 PM |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Work Order: 2201038
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: LCS-34969 | SampType: LCS | Units: µg/L | | | | Prep Date: 1/7/2022 | RunNo: 72463 | | | | |
|----------------------------------|-----------------|-------------|-----------|-------------|------|-------------------------|----------------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 34969 | | | | | Analysis Date: 1/7/2022 | SeqNo: 1479192 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | 25.5 | 1.25 | 20.00 | 0 | 127 | 80 | 120 | | | | S |
| Chloromethane | 18.8 | 0.750 | 20.00 | 0 | 94.0 | 80 | 120 | | | | |
| Bromomethane | 20.4 | 1.20 | 20.00 | 0 | 102 | 80 | 120 | | | | |
| Trichlorofluoromethane (CFC-11) | 18.6 | 0.500 | 20.00 | 0 | 93.2 | 80 | 120 | | | | |
| Chloroethane | 18.9 | 1.00 | 20.00 | 0 | 94.3 | 80 | 120 | | | | |
| 1,1-Dichloroethene | 19.5 | 0.500 | 20.00 | 0 | 97.3 | 80 | 120 | | | | |
| Acetone | 63.4 | 6.00 | 50.00 | 0 | 127 | 80 | 120 | | | | S |
| Methylene chloride | 19.7 | 0.750 | 20.00 | 0 | 98.4 | 80 | 120 | | | | |
| trans-1,2-Dichloroethene | 19.9 | 0.500 | 20.00 | 0 | 99.6 | 80 | 120 | | | | |
| Methyl tert-butyl ether (MTBE) | 22.7 | 0.500 | 20.00 | 0 | 113 | 80 | 120 | | | | |
| 1,1-Dichloroethane | 19.0 | 0.500 | 20.00 | 0 | 95.0 | 80 | 120 | | | | |
| cis-1,2-Dichloroethene | 20.2 | 0.500 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| 2-Butanone (MEK) | 65.9 | 1.50 | 50.00 | 0 | 132 | 80 | 120 | | | | S |
| Chloroform | 19.3 | 0.500 | 20.00 | 0 | 96.3 | 80 | 120 | | | | |
| 1,1,1-Trichloroethane (TCA) | 19.7 | 0.400 | 20.00 | 0 | 98.5 | 80 | 120 | | | | |
| 1,1-Dichloropropene | 19.3 | 0.500 | 20.00 | 0 | 96.6 | 80 | 120 | | | | |
| Carbon tetrachloride | 19.1 | 0.750 | 20.00 | 0 | 95.5 | 80 | 120 | | | | |
| 1,2-Dichloroethane (EDC) | 20.5 | 0.400 | 20.00 | 0 | 102 | 80 | 120 | | | | |
| Benzene | 20.1 | 0.440 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| Trichloroethene (TCE) | 20.5 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| 1,2-Dichloropropane | 19.7 | 0.500 | 20.00 | 0 | 98.6 | 80 | 120 | | | | |
| Bromodichloromethane | 20.7 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| Dibromomethane | 20.6 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| cis-1,3-Dichloropropene | 19.8 | 0.500 | 20.00 | 0 | 98.8 | 80 | 120 | | | | |
| Toluene | 20.2 | 0.750 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| trans-1,3-Dichloropropylene | 20.9 | 0.500 | 20.00 | 0 | 105 | 80 | 120 | | | | |
| Methyl Isobutyl Ketone (MIBK) | 60.9 | 1.25 | 50.00 | 0 | 122 | 80 | 120 | | | | S |
| 1,1,2-Trichloroethane | 21.6 | 0.350 | 20.00 | 0 | 108 | 80 | 120 | | | | |
| 1,3-Dichloropropane | 21.1 | 0.500 | 20.00 | 0 | 106 | 80 | 120 | | | | |
| Tetrachloroethene (PCE) | 20.4 | 0.400 | 20.00 | 0 | 102 | 80 | 120 | | | | |

Work Order: 2201038
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: LCS-34969 | SampType: LCS | Units: µg/L | | | | Prep Date: 1/7/2022 | RunNo: 72463 | | | | |
|-----------------------------|-----------------|-------------|-----------|-------------|------|-------------------------|----------------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 34969 | | | | | Analysis Date: 1/7/2022 | SeqNo: 1479192 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dibromochloromethane | 21.6 | 1.00 | 20.00 | 0 | 108 | 80 | 120 | | | | |
| 1,2-Dibromoethane (EDB) | 21.8 | 0.300 | 20.00 | 0 | 109 | 80 | 120 | | | | |
| 2-Hexanone (MBK) | 63.4 | 1.00 | 50.00 | 0 | 127 | 80 | 120 | | | | S |
| Chlorobenzene | 20.0 | 0.500 | 20.00 | 0 | 100 | 80 | 120 | | | | |
| 1,1,1,2-Tetrachloroethane | 21.5 | 0.300 | 20.00 | 0 | 107 | 80 | 120 | | | | |
| Ethylbenzene | 20.4 | 0.400 | 20.00 | 0 | 102 | 80 | 120 | | | | |
| m,p-Xylene | 41.4 | 1.00 | 40.00 | 0 | 104 | 80 | 120 | | | | |
| o-Xylene | 20.5 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| Styrene | 20.6 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| Isopropylbenzene | 20.5 | 0.500 | 20.00 | 0 | 102 | 80 | 120 | | | | |
| Bromoform | 22.4 | 0.500 | 20.00 | 0 | 112 | 80 | 120 | | | | |
| 1,1,2,2-Tetrachloroethane | 21.1 | 0.400 | 20.00 | 0 | 105 | 80 | 120 | | | | |
| n-Propylbenzene | 20.0 | 0.500 | 20.00 | 0 | 100 | 80 | 120 | | | | |
| Bromobenzene | 21.2 | 0.500 | 20.00 | 0 | 106 | 80 | 120 | | | | |
| 1,3,5-Trimethylbenzene | 20.4 | 0.250 | 20.00 | 0 | 102 | 80 | 120 | | | | |
| 2-Chlorotoluene | 20.2 | 0.500 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| 4-Chlorotoluene | 20.4 | 0.500 | 20.00 | 0 | 102 | 80 | 120 | | | | |
| tert-Butylbenzene | 20.2 | 0.500 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| 1,2,3-Trichloropropane | 22.2 | 0.400 | 20.00 | 0 | 111 | 80 | 120 | | | | |
| 1,2,4-Trichlorobenzene | 21.1 | 0.750 | 20.00 | 0 | 106 | 80 | 120 | | | | |
| sec-Butylbenzene | 20.1 | 0.500 | 20.00 | 0 | 100 | 80 | 120 | | | | |
| 4-Isopropyltoluene | 20.3 | 0.500 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| 1,3-Dichlorobenzene | 20.8 | 0.500 | 20.00 | 0 | 104 | 80 | 120 | | | | |
| 1,4-Dichlorobenzene | 20.9 | 0.500 | 20.00 | 0 | 105 | 80 | 120 | | | | |
| n-Butylbenzene | 20.2 | 0.500 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| 1,2-Dichlorobenzene | 21.1 | 0.500 | 20.00 | 0 | 106 | 80 | 120 | | | | |
| 1,2-Dibromo-3-chloropropane | 22.2 | 1.00 | 20.00 | 0 | 111 | 80 | 120 | | | | |
| 1,2,4-Trimethylbenzene | 20.5 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| Hexachloro-1,3-butadiene | 20.7 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| Naphthalene | 22.3 | 1.25 | 20.00 | 0 | 112 | 80 | 120 | | | | |

Work Order: 2201038
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: LCS-34969 | SampType: LCS | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|-----------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479192 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|-------|-------|---|------|----|-----|--|--|--|--|
| 1,2,3-Trichlorobenzene | 21.4 | 0.700 | 20.00 | 0 | 107 | 80 | 120 | | | | |
| Surr: Dibromofluoromethane | 24.4 | | 25.00 | | 97.5 | 80 | 120 | | | | |
| Surr: Toluene-d8 | 24.5 | | 25.00 | | 98.0 | 80 | 120 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 26.3 | | 25.00 | | 105 | 80 | 120 | | | | |

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a Q.

| Sample ID: MB-34969 | SampType: MBLK | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|----------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479198 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------------|----|-------|--|--|--|--|--|--|--|--|---|
| Dichlorodifluoromethane (CFC-12) | ND | 1.25 | | | | | | | | | Q |
| Chloromethane | ND | 0.750 | | | | | | | | | Q |
| Bromomethane | ND | 1.20 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.500 | | | | | | | | | |
| Chloroethane | ND | 1.00 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.500 | | | | | | | | | |
| Acetone | ND | 6.00 | | | | | | | | | |
| Methylene chloride | ND | 0.750 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.500 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.500 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.500 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.500 | | | | | | | | | |
| 2-Butanone (MEK) | ND | 1.50 | | | | | | | | | |
| Chloroform | ND | 0.500 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.400 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.500 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.750 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.400 | | | | | | | | | |
| Benzene | ND | 0.440 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.500 | | | | | | | | | |

Work Order: 2201038
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|----------------------------|------------------------|--------------------|--------------------------------|-----------------------|
| Sample ID: MB-34969 | SampType: MBLK | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 |
| Client ID: MBLKW | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479198 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|-------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,2-Dichloropropane | ND | 0.500 | | | | | | | | | |
| Bromodichloromethane | ND | 0.500 | | | | | | | | | |
| Dibromomethane | ND | 0.500 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.500 | | | | | | | | | |
| Toluene | ND | 0.750 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.500 | | | | | | | | | |
| Methyl Isobutyl Ketone (MIBK) | ND | 1.25 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.350 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.500 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.400 | | | | | | | | | |
| Dibromochloromethane | ND | 1.00 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.300 | | | | | | | | | |
| 2-Hexanone (MBK) | ND | 1.00 | | | | | | | | | |
| Chlorobenzene | ND | 0.500 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.300 | | | | | | | | | |
| Ethylbenzene | ND | 0.400 | | | | | | | | | |
| m,p-Xylene | ND | 1.00 | | | | | | | | | |
| o-Xylene | ND | 0.500 | | | | | | | | | |
| Styrene | ND | 0.500 | | | | | | | | | |
| Isopropylbenzene | ND | 0.500 | | | | | | | | | |
| Bromoform | ND | 0.500 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.400 | | | | | | | | | |
| n-Propylbenzene | ND | 0.500 | | | | | | | | | |
| Bromobenzene | ND | 0.500 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.250 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.500 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.500 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.500 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.400 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.750 | | | | | | | | | |

Work Order: 2201038
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: MB-34969 | SampType: MBLK | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|----------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479198 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|-------|-------|--|------|----|-----|--|--|--|--|
| sec-Butylbenzene | ND | 0.500 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.500 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.500 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.500 | | | | | | | | | |
| n-Butylbenzene | ND | 0.500 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.500 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.00 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.500 | | | | | | | | | |
| Hexachloro-1,3-butadiene | ND | 0.500 | | | | | | | | | |
| Naphthalene | ND | 1.25 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.700 | | | | | | | | | |
| Surr: Dibromofluoromethane | 24.5 | | 25.00 | | 97.9 | 80 | 120 | | | | |
| Surr: Toluene-d8 | 24.0 | | 25.00 | | 95.9 | 80 | 120 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 23.5 | | 25.00 | | 94.1 | 80 | 120 | | | | |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

| Sample ID: 2201058-001ADUP | SampType: DUP | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|-----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479182 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------------|----|-------|--|--|--|--|--|---|--|----|---|
| Dichlorodifluoromethane (CFC-12) | ND | 1.25 | | | | | | 0 | | 30 | Q |
| Chloromethane | ND | 0.750 | | | | | | 0 | | 30 | Q |
| Bromomethane | ND | 1.20 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.500 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 1.00 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.500 | | | | | | 0 | | 30 | |
| Acetone | ND | 6.00 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.750 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.500 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.500 | | | | | | 0 | | 30 | |

Work Order: 2201038
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2201058-001ADUP | SampType: DUP | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|-------------------------------|-----------------|-------------|-------------------------|----------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479182 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethane | ND | 0.500 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.500 | | | | | | 0 | | 30 | |
| 2-Butanone (MEK) | ND | 1.50 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.400 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.500 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.750 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.400 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.440 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.500 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.500 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.500 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.500 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.750 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.500 | | | | | | 0 | | 30 | |
| Methyl Isobutyl Ketone (MIBK) | ND | 1.25 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.350 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.500 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.400 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 1.00 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.300 | | | | | | 0 | | 30 | |
| 2-Hexanone (MBK) | ND | 1.00 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.300 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.500 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.500 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |

Work Order: 2201038
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2201058-001ADUP | SampType: DUP | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|-------------------------------|-----------------|-------------|-------------------------|----------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479182 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Bromoform | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.400 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.250 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.500 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.500 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.400 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.750 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.00 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| Hexachloro-1,3-butadiene | ND | 0.500 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 1.25 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.700 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 24.3 | | 25.00 | | 97.3 | 80 | 120 | | 0 | | |
| Surr: Toluene-d8 | 24.2 | | 25.00 | | 96.7 | 80 | 120 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 22.9 | | 25.00 | | 91.7 | 80 | 120 | | 0 | | |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Work Order: 2201038
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|-----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|
| Sample ID: 2201072-001BDUP | SampType: DUP | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 |
| Client ID: BATCH | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479184 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------------------------|--------|-------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Dichlorodifluoromethane (CFC-12) | ND | 1.25 | | | | | | 0 | | 30 | Q |
| Chloromethane | ND | 0.750 | | | | | | 0 | | 30 | Q |
| Bromomethane | ND | 1.20 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.500 | | | | | | 0 | | 30 | |
| Chloroethane | ND | 1.00 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.500 | | | | | | 0 | | 30 | |
| Acetone | 14.2 | 6.00 | | | | | | 13.84 | 2.43 | 30 | |
| Methylene chloride | ND | 0.750 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.500 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.500 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.500 | | | | | | 0 | | 30 | |
| 2-Butanone (MEK) | ND | 1.50 | | | | | | 0 | | 30 | |
| Chloroform | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.400 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.500 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.750 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.400 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.440 | | | | | | 0 | | 30 | |
| Trichloroethene (TCE) | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.500 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.500 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.500 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.500 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.750 | | | | | | 0 | | 30 | |
| trans-1,3-Dichloropropylene | ND | 0.500 | | | | | | 0 | | 30 | |
| Methyl Isobutyl Ketone (MIBK) | ND | 1.25 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.350 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.500 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.400 | | | | | | 0 | | 30 | |

Work Order: 2201038
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2201072-001BDUP | SampType: DUP | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|-----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479184 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-----------------------------|----|-------|--|--|--|--|--|---|--|----|--|
| Dibromochloromethane | ND | 1.00 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.300 | | | | | | 0 | | 30 | |
| 2-Hexanone (MBK) | ND | 1.00 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.300 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.400 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 1.00 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.500 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.500 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.400 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.250 | | | | | | 0 | | 30 | |
| 2-Chlorotoluene | ND | 0.500 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.500 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.400 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.750 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.00 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.500 | | | | | | 0 | | 30 | |
| Hexachloro-1,3-butadiene | ND | 0.500 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 1.25 | | | | | | 0 | | 30 | |

Work Order: 2201038
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2201072-001BDUP | SampType: DUP | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|-----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479184 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|-------|-------|--|------|----|-----|---|---|----|--|
| 1,2,3-Trichlorobenzene | ND | 0.700 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 24.6 | | 25.00 | | 98.4 | 80 | 120 | | 0 | | |
| Surr: Toluene-d8 | 24.5 | | 25.00 | | 98.1 | 80 | 120 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 23.3 | | 25.00 | | 93.1 | 80 | 120 | | 0 | | |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

| Sample ID: 2201038-001AMS | SampType: MS | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: Cond-010522 | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479180 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------------|------|-------|-------|---|------|------|-----|--|--|--|--|
| Dichlorodifluoromethane (CFC-12) | 13.1 | 1.25 | 20.00 | 0 | 65.5 | 6.06 | 158 | | | | |
| Chloromethane | 16.0 | 0.750 | 20.00 | 0 | 79.8 | 8.94 | 177 | | | | |
| Bromomethane | 18.1 | 1.20 | 20.00 | 0 | 90.3 | 24.1 | 196 | | | | |
| Trichlorofluoromethane (CFC-11) | 18.3 | 0.500 | 20.00 | 0 | 91.7 | 64.9 | 138 | | | | |
| Chloroethane | 17.8 | 1.00 | 20.00 | 0 | 89.0 | 62.2 | 137 | | | | |
| 1,1-Dichloroethene | 18.9 | 0.500 | 20.00 | 0 | 94.7 | 76.5 | 134 | | | | |
| Acetone | 58.2 | 6.00 | 50.00 | 0 | 116 | 56.8 | 147 | | | | |
| Methylene chloride | 18.7 | 0.750 | 20.00 | 0 | 93.3 | 75.7 | 128 | | | | |
| trans-1,2-Dichloroethene | 19.0 | 0.500 | 20.00 | 0 | 95.2 | 80.1 | 129 | | | | |
| Methyl tert-butyl ether (MTBE) | 21.1 | 0.500 | 20.00 | 0 | 106 | 59.5 | 138 | | | | |
| 1,1-Dichloroethane | 18.5 | 0.500 | 20.00 | 0 | 92.6 | 78.1 | 131 | | | | |
| cis-1,2-Dichloroethene | 19.5 | 0.500 | 20.00 | 0 | 97.3 | 81.5 | 126 | | | | |
| 2-Butanone (MEK) | 59.3 | 1.50 | 50.00 | 0 | 119 | 60.4 | 134 | | | | |
| Chloroform | 19.2 | 0.500 | 20.00 | 0 | 96.0 | 81.2 | 126 | | | | |
| 1,1,1-Trichloroethane (TCA) | 20.4 | 0.400 | 20.00 | 0 | 102 | 83.7 | 126 | | | | |
| 1,1-Dichloropropene | 19.2 | 0.500 | 20.00 | 0 | 96.2 | 79.9 | 131 | | | | |
| Carbon tetrachloride | 19.4 | 0.750 | 20.00 | 0 | 97.2 | 82.3 | 127 | | | | |
| 1,2-Dichloroethane (EDC) | 19.3 | 0.400 | 20.00 | 0 | 96.7 | 76.3 | 123 | | | | |
| Benzene | 19.5 | 0.440 | 20.00 | 0 | 97.5 | 80.1 | 128 | | | | |
| Trichloroethene (TCE) | 20.1 | 0.500 | 20.00 | 0 | 100 | 78.4 | 128 | | | | |

Work Order: 2201038
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2201038-001AMS | SampType: MS | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: Cond-010522 | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479180 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|-------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,2-Dichloropropane | 19.3 | 0.500 | 20.00 | 0 | 96.7 | 77 | 129 | | | | |
| Bromodichloromethane | 19.9 | 0.500 | 20.00 | 0 | 99.4 | 80.1 | 122 | | | | |
| Dibromomethane | 20.0 | 0.500 | 20.00 | 0 | 100 | 79 | 123 | | | | |
| cis-1,3-Dichloropropene | 17.4 | 0.500 | 20.00 | 0 | 87.0 | 76.2 | 120 | | | | |
| Toluene | 19.7 | 0.750 | 20.00 | 0 | 98.5 | 83.3 | 125 | | | | |
| trans-1,3-Dichloropropylene | 18.1 | 0.500 | 20.00 | 0 | 90.4 | 72.9 | 122 | | | | |
| Methyl Isobutyl Ketone (MIBK) | 56.7 | 1.25 | 50.00 | 0 | 113 | 59.9 | 136 | | | | |
| 1,1,2-Trichloroethane | 20.4 | 0.350 | 20.00 | 0 | 102 | 77.9 | 124 | | | | |
| 1,3-Dichloropropane | 19.9 | 0.500 | 20.00 | 0 | 99.7 | 75.6 | 125 | | | | |
| Tetrachloroethene (PCE) | 20.6 | 0.400 | 20.00 | 0.2395 | 102 | 85.7 | 124 | | | | |
| Dibromochloromethane | 20.9 | 1.00 | 20.00 | 0 | 105 | 75.8 | 122 | | | | |
| 1,2-Dibromoethane (EDB) | 20.6 | 0.300 | 20.00 | 0 | 103 | 75.5 | 124 | | | | |
| 2-Hexanone (MBK) | 58.2 | 1.00 | 50.00 | 0 | 116 | 62.3 | 131 | | | | |
| Chlorobenzene | 20.2 | 0.500 | 20.00 | 0 | 101 | 87.7 | 118 | | | | |
| 1,1,1,2-Tetrachloroethane | 21.0 | 0.300 | 20.00 | 0 | 105 | 81.1 | 122 | | | | |
| Ethylbenzene | 20.3 | 0.400 | 20.00 | 0 | 101 | 85.5 | 124 | | | | |
| m,p-Xylene | 40.7 | 1.00 | 40.00 | 0 | 102 | 86.8 | 122 | | | | |
| o-Xylene | 20.3 | 0.500 | 20.00 | 0 | 101 | 86.4 | 121 | | | | |
| Styrene | 20.2 | 0.500 | 20.00 | 0 | 101 | 79.7 | 123 | | | | |
| Isopropylbenzene | 20.8 | 0.500 | 20.00 | 0 | 104 | 85.3 | 125 | | | | |
| Bromoform | 21.7 | 0.500 | 20.00 | 0 | 108 | 65.6 | 132 | | | | |
| 1,1,1,2-Tetrachloroethane | 21.0 | 0.400 | 20.00 | 0 | 105 | 71.6 | 133 | | | | |
| n-Propylbenzene | 20.0 | 0.500 | 20.00 | 0 | 99.9 | 79.6 | 128 | | | | |
| Bromobenzene | 20.7 | 0.500 | 20.00 | 0 | 103 | 84 | 120 | | | | |
| 1,3,5-Trimethylbenzene | 19.7 | 0.250 | 20.00 | 0 | 98.7 | 82.9 | 124 | | | | |
| 2-Chlorotoluene | 20.1 | 0.500 | 20.00 | 0 | 101 | 84.6 | 123 | | | | |
| 4-Chlorotoluene | 19.7 | 0.500 | 20.00 | 0 | 98.6 | 81.1 | 124 | | | | |
| tert-Butylbenzene | 20.3 | 0.500 | 20.00 | 0 | 101 | 84.2 | 126 | | | | |
| 1,2,3-Trichloropropane | 20.0 | 0.400 | 20.00 | 0 | 100 | 67.3 | 125 | | | | |
| 1,2,4-Trichlorobenzene | 20.8 | 0.750 | 20.00 | 0 | 104 | 59.1 | 132 | | | | |

Work Order: 2201038
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2201038-001AMS | SampType: MS | Units: µg/L | Prep Date: 1/7/2022 | RunNo: 72463 | | | | | | | |
|----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: Cond-010522 | Batch ID: 34969 | | Analysis Date: 1/7/2022 | SeqNo: 1479180 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|-------|-------|---|------|------|-----|--|--|--|--|
| sec-Butylbenzene | 20.0 | 0.500 | 20.00 | 0 | 99.9 | 81.8 | 127 | | | | |
| 4-Isopropyltoluene | 19.5 | 0.500 | 20.00 | 0 | 97.5 | 80.1 | 127 | | | | |
| 1,3-Dichlorobenzene | 21.0 | 0.500 | 20.00 | 0 | 105 | 84.7 | 121 | | | | |
| 1,4-Dichlorobenzene | 20.8 | 0.500 | 20.00 | 0 | 104 | 84.9 | 119 | | | | |
| n-Butylbenzene | 19.3 | 0.500 | 20.00 | 0 | 96.5 | 76.8 | 129 | | | | |
| 1,2-Dichlorobenzene | 20.9 | 0.500 | 20.00 | 0 | 105 | 84.9 | 120 | | | | |
| 1,2-Dibromo-3-chloropropane | 21.9 | 1.00 | 20.00 | 0 | 110 | 53.4 | 138 | | | | |
| 1,2,4-Trimethylbenzene | 19.8 | 0.500 | 20.00 | 0 | 98.8 | 81.8 | 124 | | | | |
| Hexachloro-1,3-butadiene | 20.3 | 0.500 | 20.00 | 0 | 102 | 71.1 | 131 | | | | |
| Naphthalene | 25.3 | 1.25 | 20.00 | 0 | 127 | 42.6 | 147 | | | | |
| 1,2,3-Trichlorobenzene | 21.6 | 0.700 | 20.00 | 0 | 108 | 39.3 | 147 | | | | |
| Surr: Dibromofluoromethane | 24.0 | | 25.00 | | 96.0 | 80 | 120 | | | | |
| Surr: Toluene-d8 | 24.0 | | 25.00 | | 96.1 | 80 | 120 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 25.7 | | 25.00 | | 103 | 80 | 120 | | | | |

| Sample ID: LCS-35006 | SampType: LCS | Units: µg/L | Prep Date: 1/12/2022 | RunNo: 72519 | | | | | | | |
|-----------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 35006 | | Analysis Date: 1/12/2022 | SeqNo: 1480129 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|-------|-------|---|------|----|-----|--|--|--|--|
| Vinyl chloride | 16.0 | 0.200 | 20.00 | 0 | 80.2 | 80 | 120 | | | | |
| Surr: Dibromofluoromethane | 24.5 | | 25.00 | | 97.9 | 80 | 120 | | | | |
| Surr: Toluene-d8 | 24.4 | | 25.00 | | 97.7 | 80 | 120 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 26.4 | | 25.00 | | 106 | 80 | 120 | | | | |

| Sample ID: MB-35006 | SampType: MBLK | Units: µg/L | Prep Date: 1/12/2022 | RunNo: 72519 | | | | | | | |
|----------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 35006 | | Analysis Date: 1/12/2022 | SeqNo: 1480128 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|
| Vinyl chloride | ND | 0.200 | | | | | | | | | |
|----------------|----|-------|--|--|--|--|--|--|--|--|--|

Work Order: 2201038
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: MB-35006 | SampType: MBLK | Units: µg/L | Prep Date: 1/12/2022 | RunNo: 72519 | | | | | | | |
|-------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 35006 | | Analysis Date: 1/12/2022 | SeqNo: 1480128 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Dibromofluoromethane | 23.8 | | 25.00 | | 95.2 | 80 | 120 | | | | |
| Surr: Toluene-d8 | 23.5 | | 25.00 | | 93.9 | 80 | 120 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 23.8 | | 25.00 | | 95.1 | 80 | 120 | | | | |

Client Name: **PES**

 Work Order Number: **2201038**

 Logged by: **Gabrielle Coeuille**

 Date Received: **1/5/2022 2:33:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C |
|----------|---------|
| Sample 1 | 3.3 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 1/5/22 Page: 1 of 1
Project Name: MVSC
Laboratory Project No (Internal): 2201038
Special Remarks:

Client: PES Environmental
Project No: 443019-1358001.02-015

Address: 2101 4th Ave #1310
Collected by: Sean Kourousky

City, State, Zip: Seattle, WA, 98121
Location: Normandy Park, WA

Telephone: 206-529-3980
Report To (PM): Matt Dahl

Fax: 206-529-3985
PM Email: Mat.Dahl@PES.com

Sample Disposal: Return to client Disposal by lab (after 30 days)

| Sample Name | Sample Date | Sample Time | Sample Type (Matrix)* | # of Cont. | VOCs (EPA 8260 / 624) | BTEX | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCID) | Diesel/Heavy Oil Range Organics (DX) | SVOCs (EPA 8270 / 625) | PAHs (EPA 8270 - SIM) | PCBs (EPA 8270 - SIM) | Metals** (EPA 6020 / 200.8) | Total (T) / Dissolved (D) | Anions (IC)*** | EDB (8011) | Comments |
|-------------|--------------------|---------------|-----------------------|------------|-------------------------------------|------|------------------------------|-----------------------------------|--------------------------------------|------------------------|-----------------------|-----------------------|-----------------------------|---------------------------|----------------|------------|----------|
| 1 | <u>Cond-010522</u> | <u>1/5/22</u> | <u>1200 W</u> | <u>3</u> | <input checked="" type="checkbox"/> | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
 I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) [Signature] Date/Time 1/5/22 @ 14:00 Received (Signature) [Signature] Date/Time 1/5/22 @ 14:33
 Print Name: Sean Kourousky Print Name: Justine Marts

Relinquished (Signature) [Signature] Date/Time 1/5/22 @ 14:00 Received (Signature) [Signature] Date/Time 1/5/22 @ 14:33
 Print Name: Sean Kourousky Print Name: Justine Marts



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
2101 Fourth Avenue, Suite 1310
Seattle, WA 98121

RE: MVSC
Work Order Number: 2209092

September 16, 2022

Attention Matt Dahl:

Fremont Analytical, Inc. received 8 sample(s) on 9/7/2022 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 2209092

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|----------------------|-------------------------|----------------------------|---------------------------|
| 2209092-001 | MW-2-29.5-090622 | 09/06/2022 10:18 AM | 09/07/2022 4:53 PM |
| 2209092-002 | MW-2-33-090622 | 09/06/2022 10:31 AM | 09/07/2022 4:53 PM |
| 2209092-003 | MW-1-30-090622 | 09/06/2022 1:33 PM | 09/07/2022 4:53 PM |
| 2209092-004 | MW-1-35-090622 | 09/06/2022 1:35 PM | 09/07/2022 4:53 PM |
| 2209092-005 | DC-5-30-090722 | 09/07/2022 9:35 AM | 09/07/2022 4:53 PM |
| 2209092-006 | WDRUM-090722-1 | 09/07/2022 2:18 PM | 09/07/2022 4:53 PM |
| 2209092-007 | TB-090722 | | 09/07/2022 4:53 PM |
| 2209092-008 | TB-090722 | | 09/07/2022 4:53 PM |

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: PES Environmental, Inc.

Project: MVSC

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: PES Environmental, Inc.

Collection Date: 9/6/2022 10:18:00 AM

Project: MVSC

Lab ID: 2209092-001

Matrix: Soil

Client Sample ID: MW-2-29.5-090622

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|----------------------------------|----|--------|---|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0548 | Q | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Chloromethane | ND | 0.0876 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Vinyl chloride | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Bromomethane | ND | 0.164 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.0548 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Chloroethane | ND | 0.131 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,1-Dichloroethene | ND | 0.110 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Acetone | ND | 0.548 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Methylene chloride | ND | 0.0164 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| trans-1,2-Dichloroethene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,1-Dichloroethane | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| cis-1,2-Dichloroethane | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| (MEK) 2-Butanone | ND | 0.493 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Chloroform | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,1-Dichloropropene | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Carbon tetrachloride | ND | 0.0822 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.0252 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Benzene | ND | 0.0219 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Trichloroethene (TCE) | ND | 0.0219 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2-Dichloropropane | ND | 0.0219 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Bromodichloromethane | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Dibromomethane | ND | 0.0219 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| cis-1,3-Dichloropropene | ND | 0.0876 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Toluene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Trans-1,3-Dichloropropylene | ND | 0.0548 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Methyl Isobutyl Ketone (MIBK) | ND | 0.0822 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,1,2-Trichloroethane | ND | 0.0186 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,3-Dichloropropane | ND | 0.0219 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Tetrachloroethene (PCE) | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Dibromochloromethane | ND | 0.0219 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0110 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 2-Hexanone (MBK) | ND | 0.0657 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Chlorobenzene | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.0219 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Ethylbenzene | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| m,p-Xylene | ND | 0.0548 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| o-Xylene | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |



Client: PES Environmental, Inc.

Collection Date: 9/6/2022 10:18:00 AM

Project: MVSC

Lab ID: 2209092-001

Matrix: Soil

Client Sample ID: MW-2-29.5-090622

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|-------------------------------|------|------------|--|-----------|---|----------------------|
| Styrene | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Isopropylbenzene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Bromoform | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,1,2,2-Tetrachloroethane | ND | 0.0164 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| n-Propylbenzene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Bromobenzene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,3,5-Trimethylbenzene | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 2-Chlorotoluene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 4-Chlorotoluene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| tert-Butylbenzene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2,3-Trichloropropane | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2,4-Trichlorobenzene | ND | 0.0438 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| sec-Butylbenzene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 4-Isopropyltoluene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,3-Dichlorobenzene | ND | 0.0383 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,4-Dichlorobenzene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| n-Butylbenzene | ND | 0.0438 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2-Dichlorobenzene | ND | 0.0329 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.0657 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2,4-Trimethylbenzene | ND | 0.0274 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Hexachloro-1,3-butadiene | ND | 0.0548 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Naphthalene | ND | 0.110 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| 1,2,3-Trichlorobenzene | ND | 0.0548 | | mg/Kg-dry | 1 | 9/14/2022 5:17:34 AM |
| Surr: Dibromofluoromethane | 101 | 74.9 - 120 | | %Rec | 1 | 9/14/2022 5:17:34 AM |
| Surr: Toluene-d8 | 101 | 76.7 - 125 | | %Rec | 1 | 9/14/2022 5:17:34 AM |
| Surr: 1-Bromo-4-fluorobenzene | 96.0 | 63.3 - 136 | | %Rec | 1 | 9/14/2022 5:17:34 AM |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample Moisture (Percent Moisture)

Batch ID: R78203

Analyst: me

| | | | | | | |
|------------------|------|-------|--|-----|---|-----------------------|
| Percent Moisture | 11.8 | 0.500 | | wt% | 1 | 9/13/2022 12:36:09 PM |
|------------------|------|-------|--|-----|---|-----------------------|



Client: PES Environmental, Inc.

Collection Date: 9/6/2022 10:31:00 AM

Project: MVSC

Lab ID: 2209092-002

Matrix: Soil

Client Sample ID: MW-2-33-090622

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|----------------------------------|--------|---------|---|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0446 | Q | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Chloromethane | ND | 0.0713 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Vinyl chloride | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Bromomethane | ND | 0.134 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.0446 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Chloroethane | ND | 0.107 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,1-Dichloroethene | ND | 0.0892 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Acetone | ND | 0.446 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Methylene chloride | ND | 0.0134 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| trans-1,2-Dichloroethene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,1-Dichloroethane | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| cis-1,2-Dichloroethane | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| (MEK) 2-Butanone | ND | 0.401 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Chloroform | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,1-Dichloropropene | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Carbon tetrachloride | ND | 0.0669 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.0205 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Benzene | ND | 0.0178 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Trichloroethene (TCE) | ND | 0.0178 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2-Dichloropropane | ND | 0.0178 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Bromodichloromethane | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Dibromomethane | ND | 0.0178 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| cis-1,3-Dichloropropene | ND | 0.0713 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Toluene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Trans-1,3-Dichloropropylene | ND | 0.0446 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Methyl Isobutyl Ketone (MIBK) | ND | 0.0669 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,1,2-Trichloroethane | ND | 0.0152 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,3-Dichloropropane | ND | 0.0178 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Tetrachloroethene (PCE) | 0.0393 | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Dibromochloromethane | ND | 0.0178 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.00892 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 2-Hexanone (MBK) | ND | 0.0535 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Chlorobenzene | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.0178 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Ethylbenzene | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| m,p-Xylene | ND | 0.0446 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| o-Xylene | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |



Client: PES Environmental, Inc.

Collection Date: 9/6/2022 10:31:00 AM

Project: MVSC

Lab ID: 2209092-002

Matrix: Soil

Client Sample ID: MW-2-33-090622

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|-------------------------------|------|------------|--|-----------|---|----------------------|
| Styrene | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Isopropylbenzene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Bromoform | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,1,2,2-Tetrachloroethane | ND | 0.0134 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| n-Propylbenzene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Bromobenzene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,3,5-Trimethylbenzene | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 2-Chlorotoluene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 4-Chlorotoluene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| tert-Butylbenzene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2,3-Trichloropropane | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2,4-Trichlorobenzene | ND | 0.0357 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| sec-Butylbenzene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 4-Isopropyltoluene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,3-Dichlorobenzene | ND | 0.0312 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,4-Dichlorobenzene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| n-Butylbenzene | ND | 0.0357 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2-Dichlorobenzene | ND | 0.0267 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.0535 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2,4-Trimethylbenzene | ND | 0.0223 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Hexachloro-1,3-butadiene | ND | 0.0446 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Naphthalene | ND | 0.0892 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| 1,2,3-Trichlorobenzene | ND | 0.0446 | | mg/Kg-dry | 1 | 9/14/2022 4:47:24 AM |
| Surr: Dibromofluoromethane | 101 | 74.9 - 120 | | %Rec | 1 | 9/14/2022 4:47:24 AM |
| Surr: Toluene-d8 | 101 | 76.7 - 125 | | %Rec | 1 | 9/14/2022 4:47:24 AM |
| Surr: 1-Bromo-4-fluorobenzene | 96.3 | 63.3 - 136 | | %Rec | 1 | 9/14/2022 4:47:24 AM |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample Moisture (Percent Moisture)

Batch ID: R78203

Analyst: me

| | | | | | | |
|------------------|------|-------|--|-----|---|-----------------------|
| Percent Moisture | 8.41 | 0.500 | | wt% | 1 | 9/13/2022 12:36:09 PM |
|------------------|------|-------|--|-----|---|-----------------------|



Client: PES Environmental, Inc.

Collection Date: 9/6/2022 1:33:00 PM

Project: MVSC

Lab ID: 2209092-003

Matrix: Soil

Client Sample ID: MW-1-30-090622

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|----------------------------------|--------|--------|---|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0545 | Q | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Chloromethane | ND | 0.0872 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Vinyl chloride | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Bromomethane | ND | 0.163 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.0545 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Chloroethane | ND | 0.131 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,1-Dichloroethene | ND | 0.109 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Acetone | ND | 0.545 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Methylene chloride | ND | 0.0163 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| trans-1,2-Dichloroethene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,1-Dichloroethane | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| cis-1,2-Dichloroethane | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| (MEK) 2-Butanone | ND | 0.490 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Chloroform | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,1-Dichloropropene | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Carbon tetrachloride | ND | 0.0817 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.0251 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Benzene | ND | 0.0218 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Trichloroethene (TCE) | ND | 0.0218 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2-Dichloropropane | ND | 0.0218 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Bromodichloromethane | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Dibromomethane | ND | 0.0218 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| cis-1,3-Dichloropropene | ND | 0.0872 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Toluene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Trans-1,3-Dichloropropylene | ND | 0.0545 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Methyl Isobutyl Ketone (MIBK) | ND | 0.0817 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,1,2-Trichloroethane | ND | 0.0185 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,3-Dichloropropane | ND | 0.0218 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Tetrachloroethene (PCE) | 0.0522 | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Dibromochloromethane | ND | 0.0218 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0109 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 2-Hexanone (MBK) | ND | 0.0654 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Chlorobenzene | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.0218 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Ethylbenzene | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| m,p-Xylene | ND | 0.0545 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| o-Xylene | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |



Client: PES Environmental, Inc.

Collection Date: 9/6/2022 1:33:00 PM

Project: MVSC

Lab ID: 2209092-003

Matrix: Soil

Client Sample ID: MW-1-30-090622

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|-------------------------------|------|------------|--|-----------|---|----------------------|
| Styrene | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Isopropylbenzene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Bromoform | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,1,2,2-Tetrachloroethane | ND | 0.0163 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| n-Propylbenzene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Bromobenzene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,3,5-Trimethylbenzene | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 2-Chlorotoluene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 4-Chlorotoluene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| tert-Butylbenzene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2,3-Trichloropropane | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2,4-Trichlorobenzene | ND | 0.0436 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| sec-Butylbenzene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 4-Isopropyltoluene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,3-Dichlorobenzene | ND | 0.0381 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,4-Dichlorobenzene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| n-Butylbenzene | ND | 0.0436 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2-Dichlorobenzene | ND | 0.0327 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.0654 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2,4-Trimethylbenzene | ND | 0.0272 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Hexachloro-1,3-butadiene | ND | 0.0545 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Naphthalene | ND | 0.109 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| 1,2,3-Trichlorobenzene | ND | 0.0545 | | mg/Kg-dry | 1 | 9/14/2022 4:17:13 AM |
| Surr: Dibromofluoromethane | 99.5 | 74.9 - 120 | | %Rec | 1 | 9/14/2022 4:17:13 AM |
| Surr: Toluene-d8 | 99.3 | 76.7 - 125 | | %Rec | 1 | 9/14/2022 4:17:13 AM |
| Surr: 1-Bromo-4-fluorobenzene | 95.7 | 63.3 - 136 | | %Rec | 1 | 9/14/2022 4:17:13 AM |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample Moisture (Percent Moisture)

Batch ID: R78203

Analyst: me

| | | | | | | |
|------------------|------|-------|--|-----|---|-----------------------|
| Percent Moisture | 9.63 | 0.500 | | wt% | 1 | 9/13/2022 12:36:09 PM |
|------------------|------|-------|--|-----|---|-----------------------|



Client: PES Environmental, Inc.

Collection Date: 9/6/2022 1:35:00 PM

Project: MVSC

Lab ID: 2209092-004

Matrix: Soil

Client Sample ID: MW-1-35-090622

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|----------------------------------|--------|--------|---|-----------|---|-----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0511 | Q | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Chloromethane | ND | 0.0818 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Vinyl chloride | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Bromomethane | ND | 0.153 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.0511 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Chloroethane | ND | 0.123 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,1-Dichloroethene | ND | 0.102 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Acetone | ND | 0.511 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Methylene chloride | ND | 0.0153 | | mg/Kg-dry | 1 | 9/15/2022 10:56:02 AM |
| trans-1,2-Dichloroethene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,1-Dichloroethane | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| cis-1,2-Dichloroethene | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| (MEK) 2-Butanone | ND | 0.460 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Chloroform | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,1-Dichloropropene | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Carbon tetrachloride | ND | 0.0767 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.0235 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Benzene | ND | 0.0204 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Trichloroethene (TCE) | ND | 0.0204 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2-Dichloropropane | ND | 0.0204 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Bromodichloromethane | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Dibromomethane | ND | 0.0204 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| cis-1,3-Dichloropropene | ND | 0.0818 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Toluene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Trans-1,3-Dichloropropylene | ND | 0.0511 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Methyl Isobutyl Ketone (MIBK) | ND | 0.0767 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,1,2-Trichloroethane | ND | 0.0174 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,3-Dichloropropane | ND | 0.0204 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Tetrachloroethene (PCE) | 0.0586 | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Dibromochloromethane | ND | 0.0204 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0102 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 2-Hexanone (MBK) | ND | 0.0613 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Chlorobenzene | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.0204 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Ethylbenzene | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| m,p-Xylene | ND | 0.0511 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| o-Xylene | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |



Analytical Report

Work Order: 2209092
Date Reported: 9/16/2022

Client: PES Environmental, Inc.

Collection Date: 9/6/2022 1:35:00 PM

Project: MVSC

Lab ID: 2209092-004

Matrix: Soil

Client Sample ID: MW-1-35-090622

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|-------------------------------|------|------------|--|-----------|---|----------------------|
| Styrene | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Isopropylbenzene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Bromoform | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,1,2,2-Tetrachloroethane | ND | 0.0153 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| n-Propylbenzene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Bromobenzene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,3,5-Trimethylbenzene | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 2-Chlorotoluene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 4-Chlorotoluene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| tert-Butylbenzene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2,3-Trichloropropane | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2,4-Trichlorobenzene | ND | 0.0409 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| sec-Butylbenzene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 4-Isopropyltoluene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,3-Dichlorobenzene | ND | 0.0358 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,4-Dichlorobenzene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| n-Butylbenzene | ND | 0.0409 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2-Dichlorobenzene | ND | 0.0307 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.0613 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2,4-Trimethylbenzene | ND | 0.0256 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Hexachloro-1,3-butadiene | ND | 0.0511 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Naphthalene | ND | 0.102 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| 1,2,3-Trichlorobenzene | ND | 0.0511 | | mg/Kg-dry | 1 | 9/14/2022 7:48:16 AM |
| Surr: Dibromofluoromethane | 99.2 | 74.9 - 120 | | %Rec | 1 | 9/14/2022 7:48:16 AM |
| Surr: Toluene-d8 | 100 | 76.7 - 125 | | %Rec | 1 | 9/14/2022 7:48:16 AM |
| Surr: 1-Bromo-4-fluorobenzene | 92.6 | 63.3 - 136 | | %Rec | 1 | 9/14/2022 7:48:16 AM |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample Moisture (Percent Moisture)

Batch ID: R78203

Analyst: me

| | | | | | | |
|------------------|------|-------|--|-----|---|-----------------------|
| Percent Moisture | 7.20 | 0.500 | | wt% | 1 | 9/13/2022 12:36:09 PM |
|------------------|------|-------|--|-----|---|-----------------------|



Analytical Report

Work Order: 2209092
Date Reported: 9/16/2022

Client: PES Environmental, Inc.

Collection Date: 9/7/2022 9:35:00 AM

Project: MVSC

Lab ID: 2209092-005

Matrix: Soil

Client Sample ID: DC-5-30-090722

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|----------------------------------|----|--------|---|-----------|---|----------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0517 | Q | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Chloromethane | ND | 0.0827 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Vinyl chloride | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Bromomethane | ND | 0.155 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.0517 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Chloroethane | ND | 0.124 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,1-Dichloroethene | ND | 0.103 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Acetone | ND | 0.517 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Methylene chloride | ND | 0.0155 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| trans-1,2-Dichloroethene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,1-Dichloroethane | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| cis-1,2-Dichloroethane | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| (MEK) 2-Butanone | ND | 0.465 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Chloroform | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,1-Dichloropropene | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Carbon tetrachloride | ND | 0.0776 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.0238 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Benzene | ND | 0.0207 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Trichloroethene (TCE) | ND | 0.0207 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2-Dichloropropane | ND | 0.0207 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Bromodichloromethane | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Dibromomethane | ND | 0.0207 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| cis-1,3-Dichloropropene | ND | 0.0827 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Toluene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Trans-1,3-Dichloropropylene | ND | 0.0517 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Methyl Isobutyl Ketone (MIBK) | ND | 0.0776 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,1,2-Trichloroethane | ND | 0.0176 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,3-Dichloropropane | ND | 0.0207 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Tetrachloroethene (PCE) | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Dibromochloromethane | ND | 0.0207 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.0103 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 2-Hexanone (MBK) | ND | 0.0620 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Chlorobenzene | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.0207 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Ethylbenzene | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| m,p-Xylene | ND | 0.0517 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| o-Xylene | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |



Client: PES Environmental, Inc.

Collection Date: 9/7/2022 9:35:00 AM

Project: MVSC

Lab ID: 2209092-005

Matrix: Soil

Client Sample ID: DC-5-30-090722

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37734

Analyst: LAC

| | | | | | | |
|-------------------------------|------|------------|--|-----------|---|----------------------|
| Styrene | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Isopropylbenzene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Bromoform | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,1,2,2-Tetrachloroethane | ND | 0.0155 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| n-Propylbenzene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Bromobenzene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,3,5-Trimethylbenzene | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 2-Chlorotoluene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 4-Chlorotoluene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| tert-Butylbenzene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2,3-Trichloropropane | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2,4-Trichlorobenzene | ND | 0.0414 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| sec-Butylbenzene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 4-Isopropyltoluene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,3-Dichlorobenzene | ND | 0.0362 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,4-Dichlorobenzene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| n-Butylbenzene | ND | 0.0414 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2-Dichlorobenzene | ND | 0.0310 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.0620 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2,4-Trimethylbenzene | ND | 0.0259 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Hexachloro-1,3-butadiene | ND | 0.0517 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Naphthalene | ND | 0.103 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| 1,2,3-Trichlorobenzene | ND | 0.0517 | | mg/Kg-dry | 1 | 9/14/2022 8:18:25 AM |
| Surr: Dibromofluoromethane | 98.3 | 74.9 - 120 | | %Rec | 1 | 9/14/2022 8:18:25 AM |
| Surr: Toluene-d8 | 100 | 76.7 - 125 | | %Rec | 1 | 9/14/2022 8:18:25 AM |
| Surr: 1-Bromo-4-fluorobenzene | 93.3 | 63.3 - 136 | | %Rec | 1 | 9/14/2022 8:18:25 AM |

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample Moisture (Percent Moisture)

Batch ID: R78203

Analyst: me

| | | | | | | |
|------------------|------|-------|--|-----|---|-----------------------|
| Percent Moisture | 16.3 | 0.500 | | wt% | 1 | 9/13/2022 12:36:09 PM |
|------------------|------|-------|--|-----|---|-----------------------|



Client: PES Environmental, Inc.

Collection Date: 9/7/2022 2:18:00 PM

Project: MVSC

Lab ID: 2209092-006

Matrix: Wastewater

Client Sample ID: WDRUM-090722-1

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37726

Analyst: MS

| | | | | | | |
|----------------------------------|-------|-------|--|------|---|---------------------|
| Dichlorodifluoromethane (CFC-12) | ND | 1.25 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Chloromethane | ND | 0.750 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Vinyl chloride | ND | 0.200 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Bromomethane | ND | 1.20 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Trichlorofluoromethane (CFC-11) | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Chloroethane | ND | 1.00 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,1-Dichloroethene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Acetone | 6.66 | 6.00 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Methylene chloride | ND | 0.750 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| trans-1,2-Dichloroethene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,1-Dichloroethane | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| cis-1,2-Dichloroethene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 2-Butanone (MEK) | ND | 1.50 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Chloroform | 0.615 | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,1,1-Trichloroethane (TCA) | ND | 0.400 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,1-Dichloropropene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Carbon tetrachloride | ND | 0.750 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.400 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Benzene | ND | 0.440 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Trichloroethene (TCE) | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2-Dichloropropane | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Bromodichloromethane | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Dibromomethane | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| cis-1,3-Dichloropropene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Toluene | ND | 0.750 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| trans-1,3-Dichloropropylene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Methyl Isobutyl Ketone (MIBK) | ND | 1.25 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,1,2-Trichloroethane | ND | 0.350 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,3-Dichloropropane | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Tetrachloroethene (PCE) | 1.12 | 0.400 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Dibromochloromethane | ND | 1.00 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.300 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 2-Hexanone (MBK) | ND | 1.00 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Chlorobenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.300 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Ethylbenzene | ND | 0.400 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| m,p-Xylene | ND | 1.00 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| o-Xylene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |



Client: PES Environmental, Inc.

Collection Date: 9/7/2022 2:18:00 PM

Project: MVSC

Lab ID: 2209092-006

Matrix: Wastewater

Client Sample ID: WDRUM-090722-1

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|----------|--------|----|------|-------|----|---------------|
|----------|--------|----|------|-------|----|---------------|

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37726

Analyst: MS

| | | | | | | |
|-------------------------------|------|----------|--|------|---|---------------------|
| Styrene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Isopropylbenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Bromoform | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,1,2,2-Tetrachloroethane | ND | 0.400 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| n-Propylbenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Bromobenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,3,5-Trimethylbenzene | ND | 0.250 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 2-Chlorotoluene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 4-Chlorotoluene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| tert-Butylbenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2,3-Trichloropropane | ND | 0.400 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2,4-Trichlorobenzene | ND | 0.750 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| sec-Butylbenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 4-Isopropyltoluene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,3-Dichlorobenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,4-Dichlorobenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| n-Butylbenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2-Dichlorobenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2-Dibromo-3-chloropropane | ND | 1.00 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2,4-Trimethylbenzene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Hexachloro-1,3-butadiene | ND | 0.500 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Naphthalene | ND | 1.25 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| 1,2,3-Trichlorobenzene | ND | 0.700 | | µg/L | 1 | 9/9/2022 9:12:22 AM |
| Surr: Dibromofluoromethane | 108 | 80 - 120 | | %Rec | 1 | 9/9/2022 9:12:22 AM |
| Surr: Toluene-d8 | 96.8 | 80 - 120 | | %Rec | 1 | 9/9/2022 9:12:22 AM |
| Surr: 1-Bromo-4-fluorobenzene | 91.3 | 80 - 120 | | %Rec | 1 | 9/9/2022 9:12:22 AM |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: LCS-37734 | SampType: LCS | Units: µg/L | Prep Date: 9/9/2022 | RunNo: 78175 | | | | | | | |
|-----------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607043 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Dichlorodifluoromethane (CFC-12) | 0.923 | 0.0500 | 1.000 | 0 | 92.3 | 80 | 120 | | | | |
| Chloromethane | 1.20 | 0.0800 | 1.000 | 0 | 120 | 80 | 120 | | | | |
| Vinyl chloride | 1.52 | 0.0250 | 1.000 | 0 | 152 | 80 | 120 | | | | S |
| Bromomethane | 1.83 | 0.150 | 1.000 | 0 | 183 | 80 | 120 | | | | S |
| Trichlorofluoromethane (CFC-11) | 0.520 | 0.0500 | 1.000 | 0 | 52.0 | 80 | 120 | | | | S |
| Chloroethane | 0.873 | 0.120 | 1.000 | 0 | 87.3 | 80 | 120 | | | | |
| 1,1-Dichloroethene | 0.943 | 0.100 | 1.000 | 0 | 94.3 | 80 | 120 | | | | |
| Acetone | 2.05 | 0.500 | 2.500 | 0 | 82.1 | 80 | 120 | | | | |
| Methylene chloride | 1.06 | 0.0150 | 1.000 | 0 | 106 | 80 | 120 | | | | |
| trans-1,2-Dichloroethene | 1.03 | 0.0300 | 1.000 | 0 | 103 | 80 | 120 | | | | |
| Methyl tert-butyl ether (MTBE) | 0.942 | 0.0300 | 1.000 | 0 | 94.2 | 80 | 120 | | | | |
| 1,1-Dichloroethane | 0.936 | 0.0250 | 1.000 | 0 | 93.6 | 80 | 120 | | | | |
| cis-1,2-Dichloroethene | 1.05 | 0.0250 | 1.000 | 0 | 105 | 80 | 120 | | | | |
| (MEK) 2-Butanone | 2.30 | 0.450 | 2.500 | 0 | 91.8 | 80 | 120 | | | | |
| Chloroform | 1.02 | 0.0250 | 1.000 | 0 | 102 | 80 | 120 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.05 | 0.0250 | 1.000 | 0 | 105 | 80 | 120 | | | | |
| 1,1-Dichloropropene | 1.08 | 0.0250 | 1.000 | 0 | 108 | 80 | 120 | | | | |
| Carbon tetrachloride | 1.13 | 0.0750 | 1.000 | 0 | 113 | 80 | 120 | | | | |
| 1,2-Dichloroethane (EDC) | 0.984 | 0.0230 | 1.000 | 0 | 98.4 | 80 | 120 | | | | |
| Benzene | 1.06 | 0.0200 | 1.000 | 0 | 106 | 80 | 120 | | | | |
| Trichloroethene (TCE) | 1.12 | 0.0200 | 1.000 | 0 | 112 | 80 | 120 | | | | |
| 1,2-Dichloropropane | 1.04 | 0.0200 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| Bromodichloromethane | 1.14 | 0.0250 | 1.000 | 0 | 114 | 80 | 120 | | | | |
| Dibromomethane | 1.07 | 0.0200 | 1.000 | 0 | 107 | 80 | 120 | | | | |
| cis-1,3-Dichloropropene | 1.15 | 0.0800 | 1.000 | 0 | 115 | 80 | 120 | | | | |
| Toluene | 1.04 | 0.0300 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| Trans-1,3-Dichloropropylene | 1.16 | 0.0500 | 1.000 | 0 | 116 | 80 | 120 | | | | |
| Methyl Isobutyl Ketone (MIBK) | 2.55 | 0.0750 | 2.500 | 0 | 102 | 80 | 120 | | | | |
| 1,1,2-Trichloroethane | 1.09 | 0.0170 | 1.000 | 0 | 109 | 80 | 120 | | | | |
| 1,3-Dichloropropane | 1.08 | 0.0200 | 1.000 | 0 | 108 | 80 | 120 | | | | |
| Tetrachloroethene (PCE) | 1.17 | 0.0300 | 1.000 | 0 | 117 | 80 | 120 | | | | |
| Dibromochloromethane | 1.17 | 0.0200 | 1.000 | 0 | 117 | 80 | 120 | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: LCS-37734 | SampType: LCS | Units: µg/L | Prep Date: 9/9/2022 | RunNo: 78175 | | | | | | | |
|-----------------------------|-----------------|-------------------------|---------------------|--------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 37734 | Analysis Date: 9/9/2022 | SeqNo: 1607043 | | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2-Dibromoethane (EDB) | 1.13 | 0.0100 | 1.000 | 0 | 113 | 80 | 120 | | | | |
| 2-Hexanone (MBK) | 2.57 | 0.0600 | 2.500 | 0 | 103 | 80 | 120 | | | | |
| Chlorobenzene | 1.02 | 0.0250 | 1.000 | 0 | 102 | 80 | 120 | | | | |
| 1,1,1,2-Tetrachloroethane | 1.06 | 0.0200 | 1.000 | 0 | 106 | 80 | 120 | | | | |
| Ethylbenzene | 1.02 | 0.0250 | 1.000 | 0 | 102 | 80 | 120 | | | | |
| m,p-Xylene | 1.94 | 0.0500 | 2.000 | 0 | 97.2 | 80 | 120 | | | | |
| o-Xylene | 0.979 | 0.0250 | 1.000 | 0 | 97.9 | 80 | 120 | | | | |
| Styrene | 0.952 | 0.0250 | 1.000 | 0 | 95.2 | 80 | 120 | | | | |
| Isopropylbenzene | 1.01 | 0.0300 | 1.000 | 0 | 101 | 80 | 120 | | | | |
| Bromoform | 1.07 | 0.0250 | 1.000 | 0 | 107 | 80 | 120 | | | | |
| 1,1,2,2-Tetrachloroethane | 1.01 | 0.0150 | 1.000 | 0 | 101 | 80 | 120 | | | | |
| n-Propylbenzene | 1.01 | 0.0300 | 1.000 | 0 | 101 | 80 | 120 | | | | |
| Bromobenzene | 1.03 | 0.0300 | 1.000 | 0 | 103 | 80 | 120 | | | | |
| 1,3,5-Trimethylbenzene | 1.04 | 0.0250 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| 2-Chlorotoluene | 0.979 | 0.0300 | 1.000 | 0 | 97.9 | 80 | 120 | | | | |
| 4-Chlorotoluene | 1.02 | 0.0300 | 1.000 | 0 | 102 | 80 | 120 | | | | |
| tert-Butylbenzene | 0.968 | 0.0300 | 1.000 | 0 | 96.8 | 80 | 120 | | | | |
| 1,2,3-Trichloropropane | 1.01 | 0.0250 | 1.000 | 0 | 101 | 80 | 120 | | | | |
| 1,2,4-Trichlorobenzene | 1.05 | 0.0400 | 1.000 | 0 | 105 | 80 | 120 | | | | |
| sec-Butylbenzene | 1.06 | 0.0300 | 1.000 | 0 | 106 | 80 | 120 | | | | |
| 4-Isopropyltoluene | 1.04 | 0.0300 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| 1,3-Dichlorobenzene | 1.11 | 0.0350 | 1.000 | 0 | 111 | 80 | 120 | | | | |
| 1,4-Dichlorobenzene | 1.04 | 0.0300 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| n-Butylbenzene | 1.11 | 0.0400 | 1.000 | 0 | 111 | 80 | 120 | | | | |
| 1,2-Dichlorobenzene | 1.06 | 0.0300 | 1.000 | 0 | 106 | 80 | 120 | | | | |
| 1,2-Dibromo-3-chloropropane | 1.02 | 0.0600 | 1.000 | 0 | 102 | 80 | 120 | | | | |
| 1,2,4-Trimethylbenzene | 1.08 | 0.0250 | 1.000 | 0 | 108 | 80 | 120 | | | | |
| Hexachloro-1,3-butadiene | 1.11 | 0.0500 | 1.000 | 0 | 111 | 80 | 120 | | | | |
| Naphthalene | 1.04 | 0.100 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| 1,2,3-Trichlorobenzene | 1.05 | 0.0500 | 1.000 | 0 | 105 | 80 | 120 | | | | |
| Surr: Dibromofluoromethane | 1.26 | | 1.250 | | 101 | 74.9 | 120 | | | | |
| Surr: Toluene-d8 | 1.37 | | 1.250 | | 110 | 76.7 | 125 | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | | | | | | | | |
|-------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-37734 | SampType: LCS | Units: µg/L | Prep Date: 9/9/2022 | RunNo: 78175 | | | | | | | |
| Client ID: LCSS | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607043 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 1-Bromo-4-fluorobenzene | 1.25 | | 1.250 | | 99.8 | 63.3 | 136 | | | | |

NOTES:

- S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.
- S - Outlying spike recovery observed (low bias). Samples will be qualified with a Q.

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-37734 | SampType: MBLK | Units: mg/Kg | Prep Date: 9/9/2022 | RunNo: 78175 | | | | | | | |
| Client ID: MBLKS | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607042 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | ND | 0.0500 | | | | | | | | | |
| Chloromethane | ND | 0.0800 | | | | | | | | | |
| Vinyl chloride | ND | 0.0250 | | | | | | | | | |
| Bromomethane | ND | 0.150 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.0500 | | | | | | | | | Q |
| Chloroethane | ND | 0.120 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Acetone | ND | 0.500 | | | | | | | | | |
| Methylene chloride | ND | 0.0150 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.0300 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.0300 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0250 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.0250 | | | | | | | | | |
| (MEK) 2-Butanone | ND | 0.450 | | | | | | | | | |
| Chloroform | ND | 0.0250 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.0250 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0250 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.0750 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.0230 | | | | | | | | | |
| Benzene | ND | 0.0180 | | | | | | | | | LOD |
| Trichloroethene (TCE) | ND | 0.0200 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0200 | | | | | | | | | |
| Bromodichloromethane | ND | 0.0250 | | | | | | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|----------------------------|------------------------|---------------------|--------------------------------|-----------------------|
| Sample ID: MB-37734 | SampType: MBLK | Units: mg/Kg | Prep Date: 9/9/2022 | RunNo: 78175 |
| Client ID: MBLKS | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607042 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Dibromomethane | ND | 0.0200 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0800 | | | | | | | | | |
| Toluene | ND | 0.0300 | | | | | | | | | |
| Trans-1,3-Dichloropropylene | ND | 0.0500 | | | | | | | | | |
| Methyl Isobutyl Ketone (MIBK) | ND | 0.0750 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0170 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0200 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.0300 | | | | | | | | | |
| Dibromochloromethane | ND | 0.0200 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0100 | | | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.0600 | | | | | | | | | |
| Chlorobenzene | ND | 0.0250 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0200 | | | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | | | |
| m,p-Xylene | ND | 0.0500 | | | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | | | |
| Styrene | ND | 0.0250 | | | | | | | | | |
| Isopropylbenzene | ND | 0.0300 | | | | | | | | | |
| Bromoform | ND | 0.0250 | | | | | | | | | |
| 1,1,1,2,2-Tetrachloroethane | ND | 0.0150 | | | | | | | | | |
| n-Propylbenzene | ND | 0.0300 | | | | | | | | | |
| Bromobenzene | ND | 0.0300 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0250 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.0300 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.0300 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.0300 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.0250 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0400 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.0300 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.0300 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0350 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0300 | | | | | | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: MB-37734 | SampType: MBLK | Units: mg/Kg | Prep Date: 9/9/2022 | RunNo: 78175 | | | | | | | |
|----------------------------|------------------------|---------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607042 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|--------|-------|--|------|------|-----|--|--|--|--|
| n-Butylbenzene | ND | 0.0400 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0300 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0600 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0250 | | | | | | | | | |
| Hexachloro-1,3-butadiene | ND | 0.0500 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0500 | | | | | | | | | |
| Surr: Dibromofluoromethane | 1.27 | | 1.250 | | 101 | 74.9 | 120 | | | | |
| Surr: Toluene-d8 | 1.30 | | 1.250 | | 104 | 76.7 | 125 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 1.18 | | 1.250 | | 94.8 | 63.3 | 136 | | | | |

NOTES:

- LOD - Analyte reported to the Limit of Detection (LOD)
- Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

| Sample ID: 2209027-002BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 9/9/2022 | RunNo: 78175 | | | | | | | |
|-----------------------------------|------------------------|-------------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607028 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------------|----|--------|--|--|--|--|--|---|--|----|---|
| Dichlorodifluoromethane (CFC-12) | ND | 0.0559 | | | | | | 0 | | 30 | |
| Chloromethane | ND | 0.0894 | | | | | | 0 | | 30 | |
| Vinyl chloride | ND | 0.0279 | | | | | | 0 | | 30 | |
| Bromomethane | ND | 0.168 | | | | | | 0 | | 30 | |
| Trichlorofluoromethane (CFC-11) | ND | 0.0559 | | | | | | 0 | | 30 | Q |
| Chloroethane | ND | 0.134 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethene | ND | 0.112 | | | | | | 0 | | 30 | |
| Acetone | ND | 0.559 | | | | | | 0 | | 30 | |
| Methylene chloride | ND | 0.0168 | | | | | | 0 | | 30 | |
| trans-1,2-Dichloroethene | ND | 0.0335 | | | | | | 0 | | 30 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.0335 | | | | | | 0 | | 30 | |
| 1,1-Dichloroethane | ND | 0.0279 | | | | | | 0 | | 30 | |
| cis-1,2-Dichloroethene | ND | 0.0279 | | | | | | 0 | | 30 | |
| (MEK) 2-Butanone | ND | 0.503 | | | | | | 0 | | 30 | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|----------------------------|-----------------|------------------|-------------------------|----------------|
| Sample ID: 2209027-002BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 9/9/2022 | RunNo: 78175 |
| Client ID: BATCH | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607028 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Chloroform | ND | 0.0279 | | | | | | 0 | | 30 | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.0279 | | | | | | 0 | | 30 | |
| 1,1-Dichloropropene | ND | 0.0279 | | | | | | 0 | | 30 | |
| Carbon tetrachloride | ND | 0.0838 | | | | | | 0 | | 30 | |
| 1,2-Dichloroethane (EDC) | ND | 0.0257 | | | | | | 0 | | 30 | |
| Benzene | ND | 0.0201 | | | | | | 0 | | 30 | LOD |
| Trichloroethene (TCE) | ND | 0.0223 | | | | | | 0 | | 30 | |
| 1,2-Dichloropropane | ND | 0.0223 | | | | | | 0 | | 30 | |
| Bromodichloromethane | ND | 0.0279 | | | | | | 0 | | 30 | |
| Dibromomethane | ND | 0.0223 | | | | | | 0 | | 30 | |
| cis-1,3-Dichloropropene | ND | 0.0894 | | | | | | 0 | | 30 | |
| Toluene | ND | 0.0335 | | | | | | 0 | | 30 | |
| Trans-1,3-Dichloropropylene | ND | 0.0559 | | | | | | 0 | | 30 | |
| Methyl Isobutyl Ketone (MIBK) | ND | 0.0838 | | | | | | 0 | | 30 | |
| 1,1,2-Trichloroethane | ND | 0.0190 | | | | | | 0 | | 30 | |
| 1,3-Dichloropropane | ND | 0.0223 | | | | | | 0 | | 30 | |
| Tetrachloroethene (PCE) | ND | 0.0335 | | | | | | 0 | | 30 | |
| Dibromochloromethane | ND | 0.0223 | | | | | | 0 | | 30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0112 | | | | | | 0 | | 30 | |
| 2-Hexanone (MBK) | ND | 0.0670 | | | | | | 0 | | 30 | |
| Chlorobenzene | ND | 0.0279 | | | | | | 0 | | 30 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0223 | | | | | | 0 | | 30 | |
| Ethylbenzene | ND | 0.0279 | | | | | | 0 | | 30 | |
| m,p-Xylene | ND | 0.0559 | | | | | | 0 | | 30 | |
| o-Xylene | ND | 0.0279 | | | | | | 0 | | 30 | |
| Styrene | ND | 0.0279 | | | | | | 0 | | 30 | |
| Isopropylbenzene | ND | 0.0335 | | | | | | 0 | | 30 | |
| Bromoform | ND | 0.0279 | | | | | | 0 | | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0168 | | | | | | 0 | | 30 | |
| n-Propylbenzene | ND | 0.0335 | | | | | | 0 | | 30 | |
| Bromobenzene | ND | 0.0335 | | | | | | 0 | | 30 | |
| 1,3,5-Trimethylbenzene | ND | 0.0279 | | | | | | 0 | | 30 | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2209027-002BDUP | SampType: DUP | Units: mg/Kg-dry | Prep Date: 9/9/2022 | RunNo: 78175 | | | | | | | |
|-----------------------------------|------------------------|-------------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607028 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|--------|-------|--|------|------|-----|---|---|----|---|
| 2-Chlorotoluene | ND | 0.0335 | | | | | | 0 | | 30 | |
| 4-Chlorotoluene | ND | 0.0335 | | | | | | 0 | | 30 | |
| tert-Butylbenzene | ND | 0.0335 | | | | | | 0 | | 30 | |
| 1,2,3-Trichloropropane | ND | 0.0279 | | | | | | 0 | | 30 | |
| 1,2,4-Trichlorobenzene | ND | 0.0447 | | | | | | 0 | | 30 | |
| sec-Butylbenzene | ND | 0.0335 | | | | | | 0 | | 30 | |
| 4-Isopropyltoluene | ND | 0.0335 | | | | | | 0 | | 30 | |
| 1,3-Dichlorobenzene | ND | 0.0391 | | | | | | 0 | | 30 | |
| 1,4-Dichlorobenzene | ND | 0.0335 | | | | | | 0 | | 30 | |
| n-Butylbenzene | ND | 0.0447 | | | | | | 0 | | 30 | |
| 1,2-Dichlorobenzene | ND | 0.0335 | | | | | | 0 | | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0670 | | | | | | 0 | | 30 | |
| 1,2,4-Trimethylbenzene | ND | 0.0279 | | | | | | 0 | | 30 | |
| Hexachloro-1,3-butadiene | ND | 0.0559 | | | | | | 0 | | 30 | |
| Naphthalene | ND | 0.112 | | | | | | 0 | | 30 | |
| 1,2,3-Trichlorobenzene | ND | 0.0559 | | | | | | 0 | | 30 | |
| Surr: Dibromofluoromethane | 1.43 | | 1.397 | | 102 | 74.9 | 120 | | 0 | | |
| Surr: Toluene-d8 | 1.27 | | 1.397 | | 91.1 | 76.7 | 125 | | 0 | | |
| Surr: 1-Bromo-4-fluorobenzene | 2.77 | | 6.983 | | 39.7 | 63.3 | 136 | | 0 | | S |

NOTES:

- LOD - Analyte reported to the Limit of Detection (LOD)
- Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

| Sample ID: 2209023-001BMS | SampType: MS | Units: mg/Kg-dry | Prep Date: 9/9/2022 | RunNo: 78175 | | | | | | | |
|----------------------------------|------------------------|-------------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607025 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------------|-------|--------|-------|---|------|------|-----|--|--|--|---|
| Dichlorodifluoromethane (CFC-12) | 1.06 | 0.0510 | 1.021 | 0 | 104 | 7.77 | 152 | | | | |
| Chloromethane | 1.51 | 0.0817 | 1.021 | 0 | 148 | 34.2 | 141 | | | | S |
| Vinyl chloride | 1.30 | 0.0255 | 1.021 | 0 | 128 | 49.3 | 143 | | | | |
| Bromomethane | 2.27 | 0.153 | 1.021 | 0 | 222 | 47.1 | 163 | | | | S |
| Trichlorofluoromethane (CFC-11) | 0.874 | 0.0510 | 1.021 | 0 | 85.6 | 60.8 | 139 | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: **2209023-001BMS** SampType: **MS** Units: **mg/Kg-dry** Prep Date: **9/9/2022** RunNo: **78175**
 Client ID: **BATCH** Batch ID: **37734** Analysis Date: **9/9/2022** SeqNo: **1607025**

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|--------------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Chloroethane | 2.06 | 0.123 | 1.021 | 0 | 202 | 48.9 | 150 | | | | S |
| 1,1-Dichloroethane | 1.56 | 0.102 | 1.021 | 0 | 153 | 68.8 | 133 | | | | S |
| Acetone | 3.20 | 0.510 | 2.552 | 0 | 125 | 70 | 145 | | | | |
| Methylene chloride | 1.62 | 0.0153 | 1.021 | 0 | 158 | 70.1 | 131 | | | | S |
| trans-1,2-Dichloroethene | 1.66 | 0.0306 | 1.021 | 0 | 163 | 75.9 | 128 | | | | S |
| Methyl tert-butyl ether (MTBE) | 1.42 | 0.0306 | 1.021 | 0 | 139 | 66.4 | 139 | | | | S |
| 1,1-Dichloroethane | 1.56 | 0.0255 | 1.021 | 0 | 153 | 72.3 | 131 | | | | S |
| cis-1,2-Dichloroethene | 1.68 | 0.0255 | 1.021 | 0 | 164 | 79.9 | 123 | | | | S |
| (MEK) 2-Butanone | 3.46 | 0.459 | 2.552 | 0 | 135 | 67.8 | 139 | | | | |
| Chloroform | 1.62 | 0.0255 | 1.021 | 0 | 159 | 77.8 | 126 | | | | S |
| 1,1,1-Trichloroethane (TCA) | 1.08 | 0.0255 | 1.021 | 0 | 106 | 78.5 | 126 | | | | |
| 1,1-Dichloropropene | 1.12 | 0.0255 | 1.021 | 0 | 110 | 76.7 | 127 | | | | |
| Carbon tetrachloride | 1.16 | 0.0766 | 1.021 | 0 | 113 | 75.7 | 127 | | | | |
| 1,2-Dichloroethane (EDC) | 0.986 | 0.0235 | 1.021 | 0 | 96.6 | 73.9 | 128 | | | | |
| Benzene | 1.11 | 0.0204 | 1.021 | 0 | 109 | 76.9 | 128 | | | | |
| Trichloroethene (TCE) | 1.66 | 0.0204 | 1.021 | 0 | 163 | 76.1 | 134 | | | | S |
| 1,2-Dichloropropane | 1.48 | 0.0204 | 1.021 | 0 | 145 | 74 | 129 | | | | S |
| Bromodichloromethane | 1.64 | 0.0255 | 1.021 | 0 | 160 | 77.1 | 124 | | | | S |
| Dibromomethane | 1.49 | 0.0204 | 1.021 | 0 | 146 | 79.1 | 124 | | | | S |
| cis-1,3-Dichloropropene | 1.58 | 0.0817 | 1.021 | 0 | 155 | 74.5 | 122 | | | | S |
| Toluene | 1.48 | 0.0306 | 1.021 | 0 | 145 | 79.5 | 127 | | | | S |
| Trans-1,3-Dichloropropylene | 1.58 | 0.0510 | 1.021 | 0 | 155 | 72.9 | 123 | | | | S |
| Methyl Isobutyl Ketone (MIBK) | 3.23 | 0.0766 | 2.552 | 0 | 127 | 63.8 | 142 | | | | |
| 1,1,2-Trichloroethane | 1.57 | 0.0174 | 1.021 | 0 | 154 | 76.9 | 126 | | | | S |
| 1,3-Dichloropropane | 1.55 | 0.0204 | 1.021 | 0 | 152 | 74 | 128 | | | | S |
| Tetrachloroethene (PCE) | 1.71 | 0.0306 | 1.021 | 0 | 168 | 78.3 | 129 | | | | S |
| Dibromochloromethane | 1.66 | 0.0204 | 1.021 | 0 | 163 | 73.3 | 127 | | | | S |
| 1,2-Dibromoethane (EDB) | 1.58 | 0.0102 | 1.021 | 0 | 155 | 76 | 126 | | | | S |
| 2-Hexanone (MBK) | 3.19 | 0.0613 | 2.552 | 0 | 125 | 60.7 | 146 | | | | |
| Chlorobenzene | 1.00 | 0.0255 | 1.021 | 0 | 97.9 | 81.8 | 123 | | | | |
| 1,1,1,2-Tetrachloroethane | 1.01 | 0.0204 | 1.021 | 0 | 99.2 | 79.4 | 124 | | | | |
| Ethylbenzene | 1.00 | 0.0255 | 1.021 | 0 | 98.1 | 81.6 | 130 | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|---------------------------|-----------------|------------------|-------------------------|----------------|
| Sample ID: 2209023-001BMS | SampType: MS | Units: mg/Kg-dry | Prep Date: 9/9/2022 | RunNo: 78175 |
| Client ID: BATCH | Batch ID: 37734 | | Analysis Date: 9/9/2022 | SeqNo: 1607025 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| m,p-Xylene | 1.94 | 0.0510 | 2.042 | 0 | 94.8 | 80.6 | 128 | | | | |
| o-Xylene | 0.977 | 0.0255 | 1.021 | 0 | 95.7 | 80.1 | 126 | | | | |
| Styrene | 0.953 | 0.0255 | 1.021 | 0 | 93.3 | 81.4 | 125 | | | | |
| Isopropylbenzene | 1.01 | 0.0306 | 1.021 | 0 | 98.6 | 80.7 | 131 | | | | |
| Bromoform | 1.01 | 0.0255 | 1.021 | 0 | 99.3 | 70.5 | 132 | | | | |
| 1,1,2,2-Tetrachloroethane | 0.929 | 0.0153 | 1.021 | 0 | 91.0 | 60.1 | 136 | | | | |
| n-Propylbenzene | 0.988 | 0.0306 | 1.021 | 0 | 96.8 | 79.4 | 136 | | | | |
| Bromobenzene | 1.02 | 0.0306 | 1.021 | 0 | 99.9 | 78.9 | 125 | | | | |
| 1,3,5-Trimethylbenzene | 1.01 | 0.0255 | 1.021 | 0 | 99.3 | 78.7 | 131 | | | | |
| 2-Chlorotoluene | 0.960 | 0.0306 | 1.021 | 0 | 94.0 | 79.5 | 130 | | | | |
| 4-Chlorotoluene | 1.00 | 0.0306 | 1.021 | 0 | 98.3 | 79.8 | 128 | | | | |
| tert-Butylbenzene | 0.966 | 0.0306 | 1.021 | 0 | 94.6 | 78.1 | 131 | | | | |
| 1,2,3-Trichloropropane | 0.952 | 0.0255 | 1.021 | 0 | 93.3 | 70.2 | 131 | | | | |
| 1,2,4-Trichlorobenzene | 0.958 | 0.0408 | 1.021 | 0 | 93.8 | 76 | 129 | | | | |
| sec-Butylbenzene | 1.05 | 0.0306 | 1.021 | 0 | 103 | 76.5 | 136 | | | | |
| 4-Isopropyltoluene | 1.04 | 0.0306 | 1.021 | 0 | 102 | 75.7 | 135 | | | | |
| 1,3-Dichlorobenzene | 1.06 | 0.0357 | 1.021 | 0 | 104 | 83.2 | 124 | | | | |
| 1,4-Dichlorobenzene | 1.02 | 0.0306 | 1.021 | 0 | 99.9 | 82.9 | 125 | | | | |
| n-Butylbenzene | 1.05 | 0.0408 | 1.021 | 0 | 103 | 77.8 | 130 | | | | |
| 1,2-Dichlorobenzene | 1.02 | 0.0306 | 1.021 | 0 | 99.8 | 82.8 | 125 | | | | |
| 1,2-Dibromo-3-chloropropane | 0.899 | 0.0613 | 1.021 | 0 | 88.0 | 64.2 | 137 | | | | |
| 1,2,4-Trimethylbenzene | 1.05 | 0.0255 | 1.021 | 0 | 102 | 77.4 | 131 | | | | |
| Hexachloro-1,3-butadiene | 1.05 | 0.0510 | 1.021 | 0 | 103 | 70.9 | 136 | | | | |
| Naphthalene | 0.906 | 0.102 | 1.021 | 0 | 88.7 | 59.4 | 152 | | | | |
| 1,2,3-Trichlorobenzene | 0.913 | 0.0510 | 1.021 | 0 | 89.4 | 68.5 | 138 | | | | |
| Surr: Dibromofluoromethane | 1.30 | | 1.276 | | 102 | 74.9 | 120 | | | | |
| Surr: Toluene-d8 | 2.02 | | 1.276 | | 158 | 76.7 | 125 | | | | S |
| Surr: 1-Bromo-4-fluorobenzene | 1.26 | | 1.276 | | 99.0 | 63.3 | 136 | | | | |

NOTES:

S - Outlying spike recoveries were associated with this sample.

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|-----------------------------|------------------------|--------------------|---------------------------------|-----------------------|
| Sample ID: LCS-37734 | SampType: LCS | Units: µg/L | Prep Date: 9/9/2022 | RunNo: 78234 |
| Client ID: LCSS | Batch ID: 37734 | | Analysis Date: 9/14/2022 | SeqNo: 1608621 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Dichlorodifluoromethane (CFC-12) | 0.772 | 0.0500 | 1.000 | 0 | 77.2 | 80 | 120 | | | | S |
| Chloromethane | 0.896 | 0.0800 | 1.000 | 0 | 89.6 | 80 | 120 | | | | |
| Vinyl chloride | 0.872 | 0.0250 | 1.000 | 0 | 87.2 | 80 | 120 | | | | |
| Bromomethane | 1.18 | 0.150 | 1.000 | 0 | 118 | 80 | 120 | | | | |
| Trichlorofluoromethane (CFC-11) | 0.838 | 0.0500 | 1.000 | 0 | 83.8 | 80 | 120 | | | | |
| Chloroethane | 1.14 | 0.120 | 1.000 | 0 | 114 | 80 | 120 | | | | |
| 1,1-Dichloroethene | 1.10 | 0.100 | 1.000 | 0 | 110 | 80 | 120 | | | | |
| Acetone | 2.75 | 0.500 | 2.500 | 0 | 110 | 80 | 120 | | | | |
| Methylene chloride | 1.08 | 0.0150 | 1.000 | 0 | 108 | 80 | 120 | | | | |
| trans-1,2-Dichloroethene | 1.26 | 0.0300 | 1.000 | 0 | 126 | 80 | 120 | | | | S |
| Methyl tert-butyl ether (MTBE) | 1.16 | 0.0300 | 1.000 | 0 | 116 | 80 | 120 | | | | |
| 1,1-Dichloroethane | 1.17 | 0.0250 | 1.000 | 0 | 117 | 80 | 120 | | | | |
| cis-1,2-Dichloroethene | 1.06 | 0.0250 | 1.000 | 0 | 106 | 80 | 120 | | | | |
| (MEK) 2-Butanone | 2.57 | 0.450 | 2.500 | 0 | 103 | 80 | 120 | | | | |
| Chloroform | 1.05 | 0.0250 | 1.000 | 0 | 105 | 80 | 120 | | | | |
| 1,1,1-Trichloroethane (TCA) | 1.10 | 0.0250 | 1.000 | 0 | 110 | 80 | 120 | | | | |
| 1,1-Dichloropropene | 1.09 | 0.0250 | 1.000 | 0 | 109 | 80 | 120 | | | | |
| Carbon tetrachloride | 1.02 | 0.0750 | 1.000 | 0 | 102 | 80 | 120 | | | | |
| 1,2-Dichloroethane (EDC) | 0.981 | 0.0230 | 1.000 | 0 | 98.1 | 80 | 120 | | | | |
| Benzene | 1.04 | 0.0200 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| Trichloroethene (TCE) | 1.03 | 0.0200 | 1.000 | 0 | 103 | 80 | 120 | | | | |
| 1,2-Dichloropropane | 1.03 | 0.0200 | 1.000 | 0 | 103 | 80 | 120 | | | | |
| Bromodichloromethane | 0.947 | 0.0250 | 1.000 | 0 | 94.7 | 80 | 120 | | | | |
| Dibromomethane | 0.962 | 0.0200 | 1.000 | 0 | 96.2 | 80 | 120 | | | | |
| cis-1,3-Dichloropropene | 0.993 | 0.0800 | 1.000 | 0 | 99.3 | 80 | 120 | | | | |
| Toluene | 1.04 | 0.0300 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| Trans-1,3-Dichloropropylene | 0.952 | 0.0500 | 1.000 | 0 | 95.2 | 80 | 120 | | | | |
| Methyl Isobutyl Ketone (MIBK) | 2.32 | 0.0750 | 2.500 | 0 | 92.7 | 80 | 120 | | | | |
| 1,1,2-Trichloroethane | 0.920 | 0.0170 | 1.000 | 0 | 92.0 | 80 | 120 | | | | |
| 1,3-Dichloropropane | 0.952 | 0.0200 | 1.000 | 0 | 95.2 | 80 | 120 | | | | |
| Tetrachloroethene (PCE) | 1.03 | 0.0300 | 1.000 | 0 | 103 | 80 | 120 | | | | |
| Dibromochloromethane | 0.907 | 0.0200 | 1.000 | 0 | 90.7 | 80 | 120 | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|-----------------------------|------------------------|--------------------|---------------------------------|-----------------------|
| Sample ID: LCS-37734 | SampType: LCS | Units: µg/L | Prep Date: 9/9/2022 | RunNo: 78234 |
| Client ID: LCSS | Batch ID: 37734 | | Analysis Date: 9/14/2022 | SeqNo: 1608621 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|--------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,2-Dibromoethane (EDB) | 0.915 | 0.0100 | 1.000 | 0 | 91.5 | 80 | 120 | | | | |
| 2-Hexanone (MBK) | 2.24 | 0.0600 | 2.500 | 0 | 89.5 | 80 | 120 | | | | |
| Chlorobenzene | 1.02 | 0.0250 | 1.000 | 0 | 102 | 80 | 120 | | | | |
| 1,1,1,2-Tetrachloroethane | 0.952 | 0.0200 | 1.000 | 0 | 95.2 | 80 | 120 | | | | |
| Ethylbenzene | 1.08 | 0.0250 | 1.000 | 0 | 108 | 80 | 120 | | | | |
| m,p-Xylene | 2.17 | 0.0500 | 2.000 | 0 | 109 | 80 | 120 | | | | |
| o-Xylene | 1.07 | 0.0250 | 1.000 | 0 | 107 | 80 | 120 | | | | |
| Styrene | 1.04 | 0.0250 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| Isopropylbenzene | 1.12 | 0.0300 | 1.000 | 0 | 112 | 80 | 120 | | | | |
| Bromoform | 0.888 | 0.0250 | 1.000 | 0 | 88.8 | 80 | 120 | | | | |
| 1,1,2,2-Tetrachloroethane | 0.932 | 0.0150 | 1.000 | 0 | 93.2 | 80 | 120 | | | | |
| n-Propylbenzene | 1.10 | 0.0300 | 1.000 | 0 | 110 | 80 | 120 | | | | |
| Bromobenzene | 0.995 | 0.0300 | 1.000 | 0 | 99.5 | 80 | 120 | | | | |
| 1,3,5-Trimethylbenzene | 1.10 | 0.0250 | 1.000 | 0 | 110 | 80 | 120 | | | | |
| 2-Chlorotoluene | 1.06 | 0.0300 | 1.000 | 0 | 106 | 80 | 120 | | | | |
| 4-Chlorotoluene | 1.05 | 0.0300 | 1.000 | 0 | 105 | 80 | 120 | | | | |
| tert-Butylbenzene | 1.11 | 0.0300 | 1.000 | 0 | 111 | 80 | 120 | | | | |
| 1,2,3-Trichloropropane | 0.937 | 0.0250 | 1.000 | 0 | 93.7 | 80 | 120 | | | | |
| 1,2,4-Trichlorobenzene | 1.02 | 0.0400 | 1.000 | 0 | 102 | 80 | 120 | | | | |
| sec-Butylbenzene | 1.12 | 0.0300 | 1.000 | 0 | 112 | 80 | 120 | | | | |
| 4-Isopropyltoluene | 1.13 | 0.0300 | 1.000 | 0 | 113 | 80 | 120 | | | | |
| 1,3-Dichlorobenzene | 1.04 | 0.0350 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| 1,4-Dichlorobenzene | 1.03 | 0.0300 | 1.000 | 0 | 103 | 80 | 120 | | | | |
| n-Butylbenzene | 1.18 | 0.0400 | 1.000 | 0 | 118 | 80 | 120 | | | | |
| 1,2-Dichlorobenzene | 1.01 | 0.0300 | 1.000 | 0 | 101 | 80 | 120 | | | | |
| 1,2-Dibromo-3-chloropropane | 0.877 | 0.0600 | 1.000 | 0 | 87.7 | 80 | 120 | | | | |
| 1,2,4-Trimethylbenzene | 1.10 | 0.0250 | 1.000 | 0 | 110 | 80 | 120 | | | | |
| Hexachloro-1,3-butadiene | 1.11 | 0.0500 | 1.000 | 0 | 111 | 80 | 120 | | | | |
| Naphthalene | 0.955 | 0.100 | 1.000 | 0 | 95.5 | 80 | 120 | | | | |
| 1,2,3-Trichlorobenzene | 1.01 | 0.0500 | 1.000 | 0 | 101 | 80 | 120 | | | | |
| Surr: Dibromofluoromethane | 1.28 | | 1.250 | | 103 | 74.9 | 120 | | | | |
| Surr: Toluene-d8 | 1.27 | | 1.250 | | 101 | 76.7 | 125 | | | | |

Work Order: 2209092
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | | | | | | | | |
|-------------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-37734 | SampType: LCS | Units: µg/L | Prep Date: 9/9/2022 | RunNo: 78234 | | | | | | | |
| Client ID: LCSS | Batch ID: 37734 | | Analysis Date: 9/14/2022 | SeqNo: 1608621 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 1-Bromo-4-fluorobenzene | 1.33 | | 1.250 | | 106 | 63.3 | 136 | | | | |

NOTES:

- S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.
- S - Outlying spike recovery observed (low bias). Samples will be qualified with a Q.

| | | | | | | | | | | | |
|----------------------------------|------------------------|---------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-37734 | SampType: MBLK | Units: mg/Kg | Prep Date: 9/9/2022 | RunNo: 78234 | | | | | | | |
| Client ID: MBLKS | Batch ID: 37734 | | Analysis Date: 9/14/2022 | SeqNo: 1608617 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | ND | 0.0500 | | | | | | | | | |
| Chloromethane | ND | 0.0800 | | | | | | | | | |
| Vinyl chloride | ND | 0.0250 | | | | | | | | | |
| Bromomethane | ND | 0.150 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.0500 | | | | | | | | | |
| Chloroethane | ND | 0.120 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.100 | | | | | | | | | |
| Acetone | ND | 0.500 | | | | | | | | | |
| Methylene chloride | 0.0487 | 0.0150 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.0300 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.0300 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0250 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.0250 | | | | | | | | | |
| (MEK) 2-Butanone | ND | 0.450 | | | | | | | | | |
| Chloroform | ND | 0.0250 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.0250 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0250 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.0750 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.0230 | | | | | | | | | |
| Benzene | ND | 0.0200 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.0200 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0200 | | | | | | | | | |
| Bromodichloromethane | ND | 0.0250 | | | | | | | | | |

Work Order: 2209092
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: MB-37734 | SampType: MBLK | Units: mg/Kg | Prep Date: 9/9/2022 | RunNo: 78234 | | | | | | | |
|----------------------------|------------------------|---------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 37734 | | Analysis Date: 9/14/2022 | SeqNo: 1608617 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|----|--------|--|--|--|--|--|--|--|--|--|
| Dibromomethane | ND | 0.0200 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0800 | | | | | | | | | |
| Toluene | ND | 0.0300 | | | | | | | | | |
| Trans-1,3-Dichloropropylene | ND | 0.0500 | | | | | | | | | |
| Methyl Isobutyl Ketone (MIBK) | ND | 0.0750 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0170 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0200 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.0300 | | | | | | | | | |
| Dibromochloromethane | ND | 0.0200 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0100 | | | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.0600 | | | | | | | | | |
| Chlorobenzene | ND | 0.0250 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0200 | | | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | | | |
| m,p-Xylene | ND | 0.0500 | | | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | | | |
| Styrene | ND | 0.0250 | | | | | | | | | |
| Isopropylbenzene | ND | 0.0300 | | | | | | | | | |
| Bromoform | ND | 0.0250 | | | | | | | | | |
| 1,1,1,2,2-Tetrachloroethane | ND | 0.0150 | | | | | | | | | |
| n-Propylbenzene | ND | 0.0300 | | | | | | | | | |
| Bromobenzene | ND | 0.0300 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0250 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.0300 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.0300 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.0300 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.0250 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0400 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.0300 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.0300 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0350 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0300 | | | | | | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: MB-37734 | SampType: MBLK | Units: mg/Kg | Prep Date: 9/9/2022 | RunNo: 78234 | | | | | | | |
|----------------------------|------------------------|---------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 37734 | | Analysis Date: 9/14/2022 | SeqNo: 1608617 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|--------|-------|--|------|------|-----|--|--|--|--|
| n-Butylbenzene | ND | 0.0400 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0300 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0600 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0250 | | | | | | | | | |
| Hexachloro-1,3-butadiene | ND | 0.0500 | | | | | | | | | |
| Naphthalene | ND | 0.100 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0500 | | | | | | | | | |
| Surr: Dibromofluoromethane | 1.23 | | 1.250 | | 98.4 | 74.9 | 120 | | | | |
| Surr: Toluene-d8 | 1.23 | | 1.250 | | 98.2 | 76.7 | 125 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 1.22 | | 1.250 | | 97.5 | 63.3 | 136 | | | | |

| Sample ID: LCS-37734 | SampType: LCS | Units: µg/L | Prep Date: 9/9/2022 | RunNo: 78290 | | | | | | | |
|-----------------------------|------------------------|--------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 37734 | | Analysis Date: 9/15/2022 | SeqNo: 1609828 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------|------|--------|-------|---|-----|----|-----|--|--|--|--|
| Methylene chloride | 1.02 | 0.0150 | 1.000 | 0 | 102 | 80 | 120 | | | | |
|--------------------|------|--------|-------|---|-----|----|-----|--|--|--|--|

| Sample ID: MB-37734 | SampType: MBLK | Units: mg/Kg | Prep Date: 9/9/2022 | RunNo: 78290 | | | | | | | |
|----------------------------|------------------------|---------------------|---------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 37734 | | Analysis Date: 9/15/2022 | SeqNo: 1609829 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|--------------------|----|--------|--|--|--|--|--|--|--|--|--|
| Methylene chloride | ND | 0.0150 | | | | | | | | | |
|--------------------|----|--------|--|--|--|--|--|--|--|--|--|

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: LCS-37726 | SampType: LCS | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 | | | | | | | |
|-----------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch ID: 37726 | | Analysis Date: 9/8/2022 | SeqNo: 1605730 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------------|------|-------|-------|---|------|----|-----|--|--|--|--|
| Dichlorodifluoromethane (CFC-12) | 16.6 | 1.25 | 20.00 | 0 | 83.1 | 80 | 120 | | | | |
| Chloromethane | 17.6 | 0.750 | 20.00 | 0 | 88.0 | 80 | 120 | | | | |
| Vinyl chloride | 20.2 | 0.200 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| Bromomethane | 18.9 | 1.20 | 20.00 | 0 | 94.7 | 80 | 120 | | | | |
| Trichlorofluoromethane (CFC-11) | 21.9 | 0.500 | 20.00 | 0 | 109 | 80 | 120 | | | | |
| Chloroethane | 20.2 | 1.00 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| 1,1-Dichloroethene | 20.2 | 0.500 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| Acetone | 44.0 | 6.00 | 50.00 | 0 | 88.1 | 80 | 120 | | | | |
| Methylene chloride | 18.8 | 0.750 | 20.00 | 0 | 93.9 | 80 | 120 | | | | |
| trans-1,2-Dichloroethene | 19.2 | 0.500 | 20.00 | 0 | 95.8 | 80 | 120 | | | | |
| Methyl tert-butyl ether (MTBE) | 17.6 | 0.500 | 20.00 | 0 | 87.9 | 80 | 120 | | | | |
| 1,1-Dichloroethane | 22.1 | 0.500 | 20.00 | 0 | 110 | 80 | 120 | | | | |
| cis-1,2-Dichloroethene | 21.2 | 0.500 | 20.00 | 0 | 106 | 80 | 120 | | | | |
| 2-Butanone (MEK) | 44.8 | 1.50 | 50.00 | 0 | 89.6 | 80 | 120 | | | | |
| Chloroform | 20.7 | 0.500 | 20.00 | 0 | 104 | 80 | 120 | | | | |
| 1,1,1-Trichloroethane (TCA) | 22.3 | 0.400 | 20.00 | 0 | 111 | 80 | 120 | | | | |
| 1,1-Dichloropropene | 21.4 | 0.500 | 20.00 | 0 | 107 | 80 | 120 | | | | |
| Carbon tetrachloride | 21.7 | 0.750 | 20.00 | 0 | 109 | 80 | 120 | | | | |
| 1,2-Dichloroethane (EDC) | 18.9 | 0.400 | 20.00 | 0 | 94.6 | 80 | 120 | | | | |
| Benzene | 20.4 | 0.440 | 20.00 | 0 | 102 | 80 | 120 | | | | |
| Trichloroethene (TCE) | 20.8 | 0.500 | 20.00 | 0 | 104 | 80 | 120 | | | | |
| 1,2-Dichloropropane | 20.4 | 0.500 | 20.00 | 0 | 102 | 80 | 120 | | | | |
| Bromodichloromethane | 20.2 | 0.500 | 20.00 | 0 | 101 | 80 | 120 | | | | |
| Dibromomethane | 18.4 | 0.500 | 20.00 | 0 | 91.9 | 80 | 120 | | | | |
| cis-1,3-Dichloropropene | 19.6 | 0.500 | 20.00 | 0 | 98.2 | 80 | 120 | | | | |
| Toluene | 20.6 | 0.750 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| trans-1,3-Dichloropropylene | 19.2 | 0.500 | 20.00 | 0 | 95.8 | 80 | 120 | | | | |
| Methyl Isobutyl Ketone (MIBK) | 44.5 | 1.25 | 50.00 | 0 | 89.1 | 80 | 120 | | | | |
| 1,1,2-Trichloroethane | 18.8 | 0.350 | 20.00 | 0 | 93.9 | 80 | 120 | | | | |
| 1,3-Dichloropropane | 18.6 | 0.500 | 20.00 | 0 | 92.8 | 80 | 120 | | | | |
| Tetrachloroethene (PCE) | 21.3 | 0.400 | 20.00 | 0 | 107 | 80 | 120 | | | | |
| Dibromochloromethane | 20.0 | 1.00 | 20.00 | 0 | 100 | 80 | 120 | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|-----------------------------|------------------------|--------------------|--------------------------------|-----------------------|
| Sample ID: LCS-37726 | SampType: LCS | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 |
| Client ID: LCSW | Batch ID: 37726 | | Analysis Date: 9/8/2022 | SeqNo: 1605730 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------------|--------|-------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,2-Dibromoethane (EDB) | 18.3 | 0.300 | 20.00 | 0 | 91.3 | 80 | 120 | | | | |
| 2-Hexanone (MBK) | 45.6 | 1.00 | 50.00 | 0 | 91.2 | 80 | 120 | | | | |
| Chlorobenzene | 20.9 | 0.500 | 20.00 | 0 | 105 | 80 | 120 | | | | |
| 1,1,1,2-Tetrachloroethane | 20.7 | 0.300 | 20.00 | 0 | 104 | 80 | 120 | | | | |
| Ethylbenzene | 21.7 | 0.400 | 20.00 | 0 | 109 | 80 | 120 | | | | |
| m,p-Xylene | 43.2 | 1.00 | 40.00 | 0 | 108 | 80 | 120 | | | | |
| o-Xylene | 21.8 | 0.500 | 20.00 | 0 | 109 | 80 | 120 | | | | |
| Styrene | 21.4 | 0.500 | 20.00 | 0 | 107 | 80 | 120 | | | | |
| Isopropylbenzene | 21.9 | 0.500 | 20.00 | 0 | 110 | 80 | 120 | | | | |
| Bromoform | 20.0 | 0.500 | 20.00 | 0 | 99.9 | 80 | 120 | | | | |
| 1,1,2,2-Tetrachloroethane | 19.5 | 0.400 | 20.00 | 0 | 97.6 | 80 | 120 | | | | |
| n-Propylbenzene | 21.8 | 0.500 | 20.00 | 0 | 109 | 80 | 120 | | | | |
| Bromobenzene | 20.6 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| 1,3,5-Trimethylbenzene | 21.7 | 0.250 | 20.00 | 0 | 109 | 80 | 120 | | | | |
| 2-Chlorotoluene | 21.4 | 0.500 | 20.00 | 0 | 107 | 80 | 120 | | | | |
| 4-Chlorotoluene | 21.4 | 0.500 | 20.00 | 0 | 107 | 80 | 120 | | | | |
| tert-Butylbenzene | 22.0 | 0.500 | 20.00 | 0 | 110 | 80 | 120 | | | | |
| 1,2,3-Trichloropropane | 18.6 | 0.400 | 20.00 | 0 | 93.2 | 80 | 120 | | | | |
| 1,2,4-Trichlorobenzene | 19.5 | 0.750 | 20.00 | 0 | 97.4 | 80 | 120 | | | | |
| sec-Butylbenzene | 22.3 | 0.500 | 20.00 | 0 | 112 | 80 | 120 | | | | |
| 4-Isopropyltoluene | 22.2 | 0.500 | 20.00 | 0 | 111 | 80 | 120 | | | | |
| 1,3-Dichlorobenzene | 21.3 | 0.500 | 20.00 | 0 | 107 | 80 | 120 | | | | |
| 1,4-Dichlorobenzene | 21.0 | 0.500 | 20.00 | 0 | 105 | 80 | 120 | | | | |
| n-Butylbenzene | 22.7 | 0.500 | 20.00 | 0 | 114 | 80 | 120 | | | | |
| 1,2-Dichlorobenzene | 20.7 | 0.500 | 20.00 | 0 | 103 | 80 | 120 | | | | |
| 1,2-Dibromo-3-chloropropane | 18.1 | 1.00 | 20.00 | 0 | 90.3 | 80 | 120 | | | | |
| 1,2,4-Trimethylbenzene | 21.7 | 0.500 | 20.00 | 0 | 108 | 80 | 120 | | | | |
| Hexachloro-1,3-butadiene | 21.9 | 0.500 | 20.00 | 0 | 109 | 80 | 120 | | | | |
| Naphthalene | 18.8 | 1.25 | 20.00 | 0 | 94.0 | 80 | 120 | | | | |
| 1,2,3-Trichlorobenzene | 19.5 | 0.700 | 20.00 | 0 | 97.7 | 80 | 120 | | | | |
| Surr: Dibromofluoromethane | 25.5 | | 25.00 | | 102 | 80 | 120 | | | | |
| Surr: Toluene-d8 | 25.2 | | 25.00 | | 101 | 80 | 120 | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | | | | | | | | |
|-------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-37726 | SampType: LCS | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 | | | | | | | |
| Client ID: LCSW | Batch ID: 37726 | | Analysis Date: 9/8/2022 | SeqNo: 1605730 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: 1-Bromo-4-fluorobenzene | 26.8 | | 25.00 | | 107 | 80 | 120 | | | | |

| | | | | | | | | | | | |
|----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-37726 | SampType: MBLK | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 | | | | | | | |
| Client ID: MBLKW | Batch ID: 37726 | | Analysis Date: 9/9/2022 | SeqNo: 1605728 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane (CFC-12) | ND | 1.25 | | | | | | | | | |
| Chloromethane | ND | 0.750 | | | | | | | | | |
| Vinyl chloride | ND | 0.200 | | | | | | | | | |
| Bromomethane | ND | 1.20 | | | | | | | | | |
| Trichlorofluoromethane (CFC-11) | ND | 0.500 | | | | | | | | | |
| Chloroethane | ND | 1.00 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.500 | | | | | | | | | |
| Acetone | ND | 6.00 | | | | | | | | | |
| Methylene chloride | ND | 0.750 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.500 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.500 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.500 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.500 | | | | | | | | | |
| 2-Butanone (MEK) | ND | 1.50 | | | | | | | | | |
| Chloroform | ND | 0.500 | | | | | | | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 0.400 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.500 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.750 | | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.400 | | | | | | | | | |
| Benzene | ND | 0.440 | | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.500 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.500 | | | | | | | | | |
| Bromodichloromethane | ND | 0.500 | | | | | | | | | |
| Dibromomethane | ND | 0.500 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.500 | | | | | | | | | |

Work Order: 2209092
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: MB-37726 | SampType: MBLK | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 | | | | | | | |
|----------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 37726 | | Analysis Date: 9/9/2022 | SeqNo: 1605728 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Toluene | ND | 0.750 | | | | | | | | | |
| trans-1,3-Dichloropropylene | ND | 0.500 | | | | | | | | | |
| Methyl Isobutyl Ketone (MIBK) | ND | 1.25 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.350 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.500 | | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.400 | | | | | | | | | |
| Dibromochloromethane | ND | 1.00 | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.300 | | | | | | | | | |
| 2-Hexanone (MBK) | ND | 1.00 | | | | | | | | | |
| Chlorobenzene | ND | 0.500 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.300 | | | | | | | | | |
| Ethylbenzene | ND | 0.400 | | | | | | | | | |
| m,p-Xylene | ND | 1.00 | | | | | | | | | |
| o-Xylene | ND | 0.500 | | | | | | | | | |
| Styrene | ND | 0.500 | | | | | | | | | |
| Isopropylbenzene | ND | 0.500 | | | | | | | | | |
| Bromoform | ND | 0.500 | | | | | | | | | |
| 1,1,1,2,2-Tetrachloroethane | ND | 0.400 | | | | | | | | | |
| n-Propylbenzene | ND | 0.500 | | | | | | | | | |
| Bromobenzene | ND | 0.500 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.250 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.500 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.500 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.500 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.400 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.750 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.500 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.500 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.500 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.500 | | | | | | | | | |
| n-Butylbenzene | ND | 0.500 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.500 | | | | | | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: MB-37726 | SampType: MBLK | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 | | | | | | | |
|----------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKW | Batch ID: 37726 | | Analysis Date: 9/9/2022 | SeqNo: 1605728 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|-------|-------|--|------|----|-----|--|--|--|--|
| 1,2-Dibromo-3-chloropropane | ND | 1.00 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.500 | | | | | | | | | |
| Hexachloro-1,3-butadiene | ND | 0.500 | | | | | | | | | |
| Naphthalene | ND | 1.25 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.700 | | | | | | | | | |
| Surr: Dibromofluoromethane | 25.8 | | 25.00 | | 103 | 80 | 120 | | | | |
| Surr: Toluene-d8 | 24.4 | | 25.00 | | 97.7 | 80 | 120 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 23.3 | | 25.00 | | 93.1 | 80 | 120 | | | | |

| Sample ID: 2209051-001AMS | SampType: MS | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 | | | | | | | |
|----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 37726 | | Analysis Date: 9/9/2022 | SeqNo: 1605722 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|----------------------------------|------|-------|-------|--------|------|------|-----|--|--|--|---|
| Dichlorodifluoromethane (CFC-12) | 40.5 | 1.25 | 40.00 | 0 | 101 | 1.35 | 172 | | | | E |
| Chloromethane | 41.1 | 0.750 | 40.00 | 0.8142 | 101 | 27.2 | 164 | | | | E |
| Vinyl chloride | 41.3 | 0.200 | 40.00 | 0 | 103 | 52.3 | 147 | | | | E |
| Bromomethane | 41.4 | 1.20 | 40.00 | 0 | 104 | 24.2 | 186 | | | | E |
| Trichlorofluoromethane (CFC-11) | 39.4 | 0.500 | 40.00 | 0 | 98.4 | 71.2 | 137 | | | | |
| Chloroethane | 39.4 | 1.00 | 40.00 | 0 | 98.4 | 62.9 | 141 | | | | |
| 1,1-Dichloroethene | 43.3 | 0.500 | 40.00 | 0 | 108 | 76.5 | 136 | | | | E |
| Acetone | 84.2 | 6.00 | 100.0 | 4.392 | 79.8 | 56.1 | 148 | | | | |
| Methylene chloride | 44.1 | 0.750 | 40.00 | 0 | 110 | 73.7 | 132 | | | | E |
| trans-1,2-Dichloroethene | 40.6 | 0.500 | 40.00 | 0 | 101 | 79.1 | 131 | | | | E |
| Methyl tert-butyl ether (MTBE) | 38.4 | 0.500 | 40.00 | 0 | 96.1 | 60.2 | 140 | | | | |
| 1,1-Dichloroethane | 39.6 | 0.500 | 40.00 | 0 | 98.9 | 74.3 | 138 | | | | |
| cis-1,2-Dichloroethene | 39.4 | 0.500 | 40.00 | 0 | 98.4 | 78.3 | 131 | | | | |
| 2-Butanone (MEK) | 86.5 | 1.50 | 100.0 | 0 | 86.5 | 61.5 | 139 | | | | |
| Chloroform | 39.9 | 0.500 | 40.00 | 0 | 99.9 | 78.9 | 131 | | | | |
| 1,1,1-Trichloroethane (TCA) | 40.2 | 0.400 | 40.00 | 0 | 100 | 81.1 | 132 | | | | E |
| 1,1-Dichloropropene | 40.5 | 0.500 | 40.00 | 0 | 101 | 81.3 | 133 | | | | E |
| Carbon tetrachloride | 40.4 | 0.750 | 40.00 | 0 | 101 | 79.5 | 133 | | | | E |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| | | | | |
|---------------------------|-----------------|-------------|-------------------------|----------------|
| Sample ID: 2209051-001AMS | SampType: MS | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 |
| Client ID: BATCH | Batch ID: 37726 | | Analysis Date: 9/9/2022 | SeqNo: 1605722 |

| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------------------|--------|-------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,2-Dichloroethane (EDC) | 39.7 | 0.400 | 40.00 | 0 | 99.3 | 73.4 | 132 | | | | |
| Benzene | 40.2 | 0.440 | 40.00 | 0 | 101 | 78.5 | 133 | | | | E |
| Trichloroethene (TCE) | 39.8 | 0.500 | 40.00 | 0 | 99.4 | 75 | 133 | | | | |
| 1,2-Dichloropropane | 39.6 | 0.500 | 40.00 | 0 | 98.9 | 76.2 | 134 | | | | |
| Bromodichloromethane | 39.5 | 0.500 | 40.00 | 0 | 98.7 | 76.1 | 130 | | | | |
| Dibromomethane | 39.1 | 0.500 | 40.00 | 0 | 97.7 | 75.5 | 130 | | | | |
| cis-1,3-Dichloropropene | 38.5 | 0.500 | 40.00 | 0 | 96.3 | 68.4 | 128 | | | | |
| Toluene | 40.0 | 0.750 | 40.00 | 0 | 100 | 77 | 133 | | | | E |
| trans-1,3-Dichloropropylene | 37.4 | 0.500 | 40.00 | 0 | 93.5 | 63.8 | 132 | | | | |
| Methyl Isobutyl Ketone (MIBK) | 89.5 | 1.25 | 100.0 | 0 | 89.5 | 59.1 | 143 | | | | |
| 1,1,2-Trichloroethane | 39.4 | 0.350 | 40.00 | 0 | 98.4 | 75.2 | 130 | | | | |
| 1,3-Dichloropropane | 39.6 | 0.500 | 40.00 | 0 | 99.1 | 73.9 | 131 | | | | |
| Tetrachloroethene (PCE) | 40.0 | 0.400 | 40.00 | 0 | 99.9 | 78 | 131 | | | | |
| Dibromochloromethane | 38.7 | 1.00 | 40.00 | 0 | 96.7 | 72.6 | 129 | | | | |
| 1,2-Dibromoethane (EDB) | 39.1 | 0.300 | 40.00 | 0 | 97.8 | 73.9 | 128 | | | | |
| 2-Hexanone (MBK) | 89.1 | 1.00 | 100.0 | 0 | 89.1 | 55.6 | 149 | | | | |
| Chlorobenzene | 39.0 | 0.500 | 40.00 | 0 | 97.5 | 80.9 | 124 | | | | |
| 1,1,1,2-Tetrachloroethane | 39.1 | 0.300 | 40.00 | 0 | 97.7 | 79.3 | 123 | | | | |
| Ethylbenzene | 39.3 | 0.400 | 40.00 | 0 | 98.4 | 77.9 | 133 | | | | |
| m,p-Xylene | 77.9 | 1.00 | 80.00 | 0 | 97.4 | 74.8 | 133 | | | | |
| o-Xylene | 38.6 | 0.500 | 40.00 | 0 | 96.5 | 81.2 | 126 | | | | |
| Styrene | 37.1 | 0.500 | 40.00 | 0 | 92.7 | 75.7 | 126 | | | | |
| Isopropylbenzene | 39.3 | 0.500 | 40.00 | 0 | 98.3 | 79.1 | 132 | | | | |
| Bromoform | 37.1 | 0.500 | 40.00 | 0 | 92.7 | 68.3 | 132 | | | | |
| 1,1,2,2-Tetrachloroethane | 39.4 | 0.400 | 40.00 | 0 | 98.5 | 72.7 | 141 | | | | |
| n-Propylbenzene | 39.1 | 0.500 | 40.00 | 0 | 97.9 | 77.2 | 137 | | | | |
| Bromobenzene | 38.0 | 0.500 | 40.00 | 0 | 95.0 | 79.9 | 124 | | | | |
| 1,3,5-Trimethylbenzene | 38.4 | 0.250 | 40.00 | 0 | 96.1 | 77.4 | 132 | | | | |
| 2-Chlorotoluene | 38.8 | 0.500 | 40.00 | 0 | 97.0 | 77.9 | 133 | | | | |
| 4-Chlorotoluene | 38.4 | 0.500 | 40.00 | 0 | 96.1 | 78 | 130 | | | | |
| tert-Butylbenzene | 39.0 | 0.500 | 40.00 | 0 | 97.4 | 79.5 | 131 | | | | |
| 1,2,3-Trichloropropane | 37.0 | 0.400 | 40.00 | 0 | 92.5 | 66.3 | 132 | | | | |

Work Order: 2209092
 CLIENT: PES Environmental, Inc.
 Project: MVSC

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

| Sample ID: 2209051-001AMS | SampType: MS | Units: µg/L | Prep Date: 9/8/2022 | RunNo: 78131 | | | | | | | |
|----------------------------------|------------------------|--------------------|--------------------------------|-----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 37726 | | Analysis Date: 9/9/2022 | SeqNo: 1605722 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|-------------------------------|------|-------|-------|---|------|------|-----|--|--|--|--|
| 1,2,4-Trichlorobenzene | 36.7 | 0.750 | 40.00 | 0 | 91.7 | 67.6 | 131 | | | | |
| sec-Butylbenzene | 39.0 | 0.500 | 40.00 | 0 | 97.5 | 77.9 | 136 | | | | |
| 4-Isopropyltoluene | 38.7 | 0.500 | 40.00 | 0 | 96.9 | 76.3 | 134 | | | | |
| 1,3-Dichlorobenzene | 39.0 | 0.500 | 40.00 | 0 | 97.6 | 83.5 | 123 | | | | |
| 1,4-Dichlorobenzene | 38.8 | 0.500 | 40.00 | 0 | 97.0 | 84.2 | 121 | | | | |
| n-Butylbenzene | 39.7 | 0.500 | 40.00 | 0 | 99.3 | 76 | 137 | | | | |
| 1,2-Dichlorobenzene | 38.8 | 0.500 | 40.00 | 0 | 97.1 | 83.3 | 124 | | | | |
| 1,2-Dibromo-3-chloropropane | 36.1 | 1.00 | 40.00 | 0 | 90.3 | 57.7 | 146 | | | | |
| 1,2,4-Trimethylbenzene | 37.9 | 0.500 | 40.00 | 0 | 94.8 | 75.3 | 134 | | | | |
| Hexachloro-1,3-butadiene | 39.4 | 0.500 | 40.00 | 0 | 98.4 | 68.5 | 136 | | | | |
| Naphthalene | 37.3 | 1.25 | 40.00 | 0 | 93.4 | 51.6 | 149 | | | | |
| 1,2,3-Trichlorobenzene | 36.7 | 0.700 | 40.00 | 0 | 91.8 | 62.9 | 138 | | | | |
| Surr: Dibromofluoromethane | 26.1 | | 25.00 | | 104 | 80 | 120 | | | | |
| Surr: Toluene-d8 | 26.1 | | 25.00 | | 105 | 80 | 120 | | | | |
| Surr: 1-Bromo-4-fluorobenzene | 26.3 | | 25.00 | | 105 | 80 | 120 | | | | |

| | |
|-------------------------------|------------------------------------|
| Client Name: PES | Work Order Number: 2209092 |
| Logged by: Gabrielle Coeuille | Date Received: 9/7/2022 4:53:00 PM |

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

| | | | |
|----------------------|----------------------|-------|---|
| Person Notified: | <input type="text"/> | Date: | <input type="text"/> |
| By Whom: | <input type="text"/> | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | <input type="text"/> | | |
| Client Instructions: | <input type="text"/> | | |

19. Additional remarks:

Item Information

| Item # | Temp °C |
|----------|---------|
| Sample 1 | 4.5 |

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 09-06-02 Page: 1 of 1

Project Name: MVSC

Project No: 1358.001.03.012

Collected by: A. Semeraro

Location: Normandy Park

Report To (PM): Matt Pahl

PM Email: matt.pahl@mvsc.com

Laboratory Project No (Internal): 2209092

Special Remarks:

Sample Disposal: Return to client Disposal by lab (after 30 days)

Client: PBS Environmental
Address: 21014th Ave S, Ste. 1310
City, State, Zip: Seattle, WA, 98191
Telephone: 206-599-3980
Fax:

| Sample Name | Sample Date | Sample Time | Sample Type (Matrix)* | # of Cont. | VOCS (EPA 8260 / 624) | BTEX | Gasoline Range Organics (GX) | Hydrocarbon Identification (HCID) | Diesel/Heavy Oil Range Organics (DWR) | SVOCs (EPA 8270 / 625) | PAHs (EPA 8270 - SIM) | PCBs (EPA 8082 / 608) | Metals** (EPA 6020 / 200.8) | Total (T) Dissolved (D) | Anions (IC)*** | EDB (8011) | Comments |
|---------------------|-------------|-------------|-----------------------|------------|-----------------------|------|------------------------------|-----------------------------------|---------------------------------------|------------------------|-----------------------|-----------------------|-----------------------------|---------------------------|----------------|------------|----------|
| 1 MW-2-29, 5-090622 | 09/06/02 | 10:18 | S | 3 | X | | | | | | | | | | | | |
| 2 MW-2-33-090622 | | 10:31 | S | 3 | X | | | | | | | | | | | | |
| 3 MW-1-30-090622 | | 13:33 | S | 3 | X | | | | | | | | | | | | |
| 4 MW-1-35-090622 | | 13:35 | S | 3 | X | | | | | | | | | | | | |
| 5 MW-1-35-090622 | | | S | 3 | X | | | | | | | | | | | | |
| 6 DC-5-30-090722 | 09/07/22 | 09:35 | S | 3 | X | | | | | | | | | | | | |
| 7 DC-5-30-090722 | 09/07/22 | 12:35 | S | 3 | X | | | | | | | | | | | | |
| 8 WDRUM-090722-1 | 09/07/22 | 14:18 | WW | 3 | X | | | | | | | | | | | | |
| 9 TRS-090722 | 09/21/22 | 13:00 | | 2 | | | | | | | | | | | | | |

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
 **Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Tl V Zn
 ***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Reinquished (Signature) *Anthony Semeraro* Date/Time 09/07/22 16:49
 Print Name Anthony Semeraro
 Received (Signature) *Matthew Pahl* Date/Time 09/17/22 10:53
 Print Name Matthew Pahl

Turn-around Time:
 Standard Next Day
 3 Day Same Day
 2 Day (specify)