



**MONITORING WELLS 16 TO 20 INSTALLATION AND SAMPLING REPORT  
FORSEYS CLEANERS AND LAUNDRY  
856 25<sup>TH</sup> STREET  
OGDEN, UTAH**

**PREPARED FOR:  
OGDEN CITY COMMUNITY & ECONOMIC DEVELOPMENT  
2549 WASHINGTON BLVD, SUITE 420  
OGDEN, UT 84401**

**ATTENTION: BRANDON COOPER**

**AGEC PROJECT NO. 1210149**

**MARCH 18, 2021**

## **1.0 INTRODUCTION**

This report presents a Monitoring Well Installation and Sampling Report for five additional groundwater monitoring wells installed in the vicinity of the Forsey Cleaners & Laundry facility at 856 East 25th Street in Ogden, Utah. Applied Geotechnical Engineering Consultants, Inc., (AGEC) was requested to install five additional groundwater monitoring wells and conduct sampling to help delineate the extent and degree of PCE/TCE contamination present in the soil and/or groundwater in the vicinity of the former dry cleaner on the property. This report presents a summary of the additional monitoring well installation, soil and groundwater sampling activities and the initial environmental sampling test results for the additional well locations.

### **1.1 Site Background and Previous Sampling Results**

A house was built by 1906 at 856 East 25th Street and was converted into the East Side Nursing Home by the mid 1950s. The house/nursing home was removed by 1961 and replaced with the existing laundry facility at 856 East 25th Street. The building was occupied by Norge Cleaning Village/Meyer's Norge Village from the 1960s to the late 1980s. In the late 1980s, the business name changed to Forsey's Norge self serve laundry and then Forsey's Laundry and Cleaning Village, 4-C's Wash Basin and Four Seasons Laundromat. We understand that dry cleaning has not been performed on site since about 1987.

The property is listed on the RCRA Generator list for Meyers Cleaning Village at 856 25<sup>th</sup> Street. The facility was a small quantity generator of hazardous waste. The dry-cleaning facility was closed in early 1987 when the dry cleaning began to be performed at another facility. The business was sold in January 1988. The Forsey laundry does not perform dry cleaning on site.

To help determine if the historical dry cleaner has impacted the property, AGEC conducted a limited subsurface sampling investigation by obtaining soil and groundwater samples and performing a soil vapor investigation with locations inside and outside the existing building. This sampling event was not intended to delineate the extent of the contamination, if present, in the soil vapor, soil or groundwater.

Two exterior borings (GP-1 and GP-2) were advanced near the west and north side of the northwest end of the building, presumably where the historical dry-cleaning equipment was located (Figure 1). Two soil vapor sampling points (PRT-1 and PRT-2) were sampled adjacent to the borings west of the building. Two indoor subsurface soil vapor samples were obtained in the northwest room, presumably near the historical dry-cleaning equipment.

The four soil samples did not contain concentrations of the analyzed contaminants above the laboratory reported detection limits with the exception of 2-Butanone also known as methyl ethyl ketone (MEK) and tetrachloroethylene (PCE). The contaminant concentrations were compared to the residential and commercial November 2019 EPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites. RSLs are not necessarily cleanup standards. The RSL's role in site "screening" is to help identify areas, contaminants, and conditions that may require further attention at a particular site. The detected concentrations of MEK and PCE were below the respective residential RSL values.

The only contaminant detected in the two groundwater samples above the laboratory method detection limits was PCE (Table 2). The concentrations of PCE were 0.0422 mg/L (GP-1) and 0.00661 mg/L (GP-2). The EPA Maximum Contaminant Level (MCL) for PCE is 0.005 mg/L, so both concentrations exceeded the MCL.

The only VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and trichloroethene (TCE) in VP-1 and VP-2.

The concentrations of PCE were significantly higher in the two subslab samples than the exterior PRT samples. The degradation process of PCE produces daughter products as it works toward non-regulated, non-toxic compounds. The primary daughter products of PCE include TCE, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, and vinyl chloride.

According to the EPA, motor vehicle exhaust is a constant source of 1,3-butadiene and it is usually found in ambient air at low levels in urban and suburban areas. Potential sources of chloroform include chlorine-treated drinking water. Chlorinated drinking water can leak from buried water supply or sanitary sewer lines. A floor drain was within several feet of VP-2 and is likely the source of the chloroform. Naphthalene is found in cigarette smoke, car exhaust and diesel fuel.

Based on the limited initial sampling performed at the site, it appeared the PCE contamination is a result of a historical release near the former dry-cleaning equipment.

The sources of 1,3-butadiene, chloroform and naphthalene in the soil vapor samples are unknown. As they each were only detected in one of four samples, these compounds did not appear to be widespread contaminants on the property.

Findings of the study were reported to Ogden City Business Development under AGECEC Project No. 1200034, dated January 29, 2020.

To help determine the soil and groundwater conditions on site, AGECE installed five groundwater monitoring wells on site (MW-1 to MW-5), in the vicinity of the previously detected groundwater contamination in borings GP-1 and GP-2 with wells east of the building (up gradient) and northwest, west and southwest of GP-1 (Figure 1). The five initial groundwater monitoring wells (MW-1 to MW-5) were installed on December 22, 2020.

#### Soil Results

PCE was detected in the soil samples from MW-2, MW-3, MW-4 and MW-5 above the laboratory method detection limits. The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the laboratory detection limits in boring MW-1, MW-2, MW-3 or MW-4. No compounds of concern were detected in boring MW-1 above the laboratory method detection limits.

#### Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-2, MW-3 and MW-4 (Figure 3). The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-2, MW-3 and MW-4 contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE (0.00626 mg/L) in boring MW-3 which is above the TCE MCL of 0.005 mg/L.

Based on the soil gas, soil and groundwater samples obtained in the vicinity of the Forsey Cleaners & Laundry facility, a historical release of dry-cleaning solvent occurred. Concentrations of PCE and TCE are present in the groundwater above the MCL in at least one monitoring well. VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and TCE in VP-1 and VP-2. Soil contamination above the EPA SLs has not been encountered during the previous two sampling events.

As the PCE groundwater contamination was highest in MW-3, the extent of the groundwater plume was not delineated with this sampling investigation.

Findings of the study were reported to Ogden City Business Development under AGECE Project No. 1200908, dated January 28, 2021.

To help delineate the PCE/TCE plume at the site, five additional monitoring wells were installed down gradient (north and west) of MW-3. Four groundwater monitoring wells

were installed on site (MW-6 to MW-9), and one groundwater monitoring well was installed off site (MW-10), down gradient of the highest concentrations of PCE/TCE previously detected in the groundwater in MW-3 (Figure 1). The five additional groundwater monitoring wells (MW-6 to MW-10) were installed on January 20, 2021.

#### Soil Results

PCE was detected in the soil samples from MW-7 and MW-10 above the laboratory method detection limits. The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the laboratory detection limits in borings MW-7 or MW-10. No compounds of concern were detected in borings MW-6, MW-8 or MW-9 above the laboratory method detection limits.

#### Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-6, MW-7, MW-8 and MW-10 (Figure 3). The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-6, MW-7, MW-8 and MW-10 contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE (0.0127 mg/L) in boring MW-10, which is above the TCE MCL of 0.005 mg/L and chloroform (0.00410 mg/L) in MW-7. The concentration of chloroform is below the MCL of 0.080 mg/L.

As the PCE groundwater contamination is above the MCL in MW-7, MW-8 and MW-10 the extent of the PCE groundwater plume was not delineated with this sampling investigation, and has been shown to impact the neighboring property to the west.

Findings of the study were reported to Ogden City Business Development under AGECE Project No. 1210017, dated January 28, 2021.

To help continue the delineation of the PCE/TCE plume at the site, one additional groundwater monitoring well was installed on site (MW-11), and four additional groundwater monitoring wells were installed off site (MW-12 to MW-15), down gradient of the concentrations of PCE/TCE previously detected in the groundwater in MW-10 (Figures 3 and 4). The five additional groundwater monitoring wells (MW-11 to MW-15) were installed on February 8, 2021.

#### Soil Results

PCE was detected in the soil samples from MW-12, MW-14 and MW-15 above the laboratory method detection limits. TCE was detected in the soil sample from MW-12.

The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE and TCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the laboratory detection limits in borings MW-12, MW-14 or MW-15. No compounds of concern were detected in borings MW-11 or MW-13 above the laboratory method detection limits.

#### Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-11, MW-12, MW-13, MW-14 and MW-15 (Figure 3). The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-11, MW-12, MW-14 and MW-15 contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE in borings MW-12 (0.026 mg/L) and MW-15 (0.0619 mg/L), which are above the TCE MCL of 0.005 mg/L (Figure 4).

As the PCE groundwater contamination is above the MCL in MW-11, MW-12, MW-14 and MW-15 the extent of the PCE groundwater plume was not delineated with this sampling investigation, and has been shown to impact the neighboring properties to the west of the former dry cleaner. As the concentrations of PCE and TCE are highest to date in MW-12, in the farthest northwestern well, there is a potential that multiple sources of the contaminants exist at the site.

Findings of the study were reported to Ogden City Business Development under AGECEC Project No. 1210086, dated February 22, 2021.

## **2.0 ADDITIONAL SITE INVESTIGATION SAMPLING ACTIVITIES**

To help continue the delineation the PCE/TCE plume at the site, five additional groundwater monitoring wells were installed off site (MW-16 to MW-20), down gradient of the concentrations of PCE/TCE previously detected in the groundwater in MW-12 (Figures 3 and 4). The five additional groundwater monitoring wells (MW-16 to MW-20) were installed on March 4, 2021.

### **2.1 Additional Monitoring Well Installation and Soil Sampling**

Each well location was pre-marked and Blue-staked. The five additional wells were installed using hollow 3.25-inch inside diameter direct-push casing by drilling approximately 15 feet below the ground using a dual-tube sampling rod. The soil was logged and continuously sampled to the bottom of the borings in 5-foot intervals using disposable acetate liners. Groundwater was encountered in the borings at depths of

approximately 6 to 9 feet. Drilling and sampling equipment were decontaminated prior to arrival and between each boring with the use of a non-phosphate detergent (Alconox) and double rinsing in tap water with a pressure washer.

The soil samples obtained from the borings were screened on site with a photo-ionization detection (PID) meter. The PID was calibrated with a known concentration of isobutylene gas and zeroed at a background site location. Soil staining, odors and elevated PID readings were not detected during the sampling. As no evidence of contamination was detected in the borings, soil samples were obtained from each boring near the groundwater interface depth (6 to 9 feet below grade). A sample of the soil was also obtained from MW-20 at a depth of approximately 10 feet. Each soil sample was placed in two glass jars as provided by the analytical laboratory with no head space while wearing new disposable gloves. The sample jars were labeled with the location, depth, date and time, immediately stored in a cooler with ice and transported with chain of custody forms to a Utah-certified analytical laboratory, American West Analytical Laboratories (AWAL). The soil samples were analyzed for total VOCs.

The subsurface sampling indicated that borings MW-16 and MW-18 contain approximately ½-foot of fill consisting of silty gravel with sand. Boring MW-20 contained approximately 5 feet of fill consisting of silty sand with slight gravel. Approximately 6 to 10 feet of natural lean clay extends below the fill in borings MW-16, MW-18 and MW-20 and below the ground surface in borings MW-17 and MW-19. Natural lean clay interlayered with silty to poorly-graded sand with silt extends below the natural lean clay in the borings to the maximum depth investigated, approximately 14 feet. Boring logs are presented on Figures 5 to 8 with notes and legend on Figure 9.

The wells were constructed with 10 feet of 1.5-inch inside diameter, schedule 40 PVC well screen with prepacked sand (2.25 inch OD). The inert screen for the wells extended approximately 2½ to 5 feet above the groundwater interface to allow for sample collection in the uppermost aquifer. Blank schedule 40 PVC riser pipe extended from the screen to within approximately 6 inches of the top of the surrounding ground surface. A solid end cap was placed on the bottom of each of the well screen sections. Each well was constructed with approximately 1 to 2 feet of silica sand extending above the screen section and then hydrated bentonite to within 1 foot of the ground surface. Each well was completed with a 7-inch diameter flush-mounted monument embedded in concrete.

As the borings were advanced with direct push methods, excess drill cuttings were not produced.

## 2.2 Well Sampling

Development of the wells was performed on March 10, 2021, approximately 6 days after the wells were installed. The new wells were developed with the use of a peristaltic pump and by pumping a minimum of three well casing volumes. Free-product was not observed in the wells or purge water. The purge water removed during the well development was collected in buckets and deposited in a steel 55-gallon drum with sealing lid that was placed on the north side of the existing Forsey building. The drum and purge water will be stored on site temporarily until disposal. Disposal is anticipated to be performed by Clean Harbors.

The tops of each of the five additional new well casings on the property were surveyed after installation so that the groundwater elevations and gradient can be calculated (Tables 4 and 5 in Appendix A). The depth to groundwater and the overall depth of the wells was measured in each monitoring well to determine the groundwater elevation in each well and the water column volume. The depth to water in the fifteen previous wells and the five additional new wells was measured on March 10, 2021, prior to purging and sampling. The wells were measured with a water level indicator probe to the nearest 0.01 foot. The probe was decontaminated between each monitoring well with non-phosphate soap (Alconox) and double rinsed in tap water. The groundwater elevations from the five new wells and fifteen previous wells (also measured on March 10, 2021) were used to calculate the approximate hydraulic gradient with the EPA Hydraulic Gradient Calculator (0.018 ft/ft) and groundwater flow direction across the property (approximately 272°) to the west-northwest (Figure 2).

Following the well development activities, groundwater samples were obtained on March 10, 2021, in general accordance with the sampling protocols as set by Utah State and the Environmental Protection Agency. The samples from each of the five wells were collected with the use of a peristaltic pump with low flow controls and new polyethylene tubing to fill the sample vials. A duplicate set of groundwater samples was obtained from monitoring well MW-17 (MW-1-Dup).

The samples were transferred directly to 40 ml glass vials equipped with Teflon septa and preserved with 2 percent hydrochloric acid as provided by the analytical laboratory. The sample vials were labeled, immediately stored in a cooler with ice to maintain an appropriate temperature of approximately 4°C and transported with chain of custody forms to AWAL. Chain of Custody forms supplied by the analytical laboratory were used. A set of trip blank samples prepared by the laboratory was stored with the five samples and duplicate and was submitted with the other samples for analytical testing for total VOCs.



### **2.3 Equipment Decontamination Procedures**

Disposable well development and sampling equipment such as new polyethylene tubing and disposable gloves were used to help eliminate the possibility of cross-contamination and to simplify decontamination procedures.

## **3.0 LABORATORY RESULTS**

During the March 4 and 10, 2021 sampling events, the six soil samples, five groundwater samples, one duplicate groundwater sample and the trip blank were submitted to AWAL for laboratory analyses to determine if significant concentrations of VOCs were present in the soil and/or groundwater on the property at the sampled locations. Quality control level 2 + was used by the analytical laboratory.

### **3.1 Soil Results**

PCE was detected in the soil sample from MW-17 above the laboratory method detection limits. The analytical test results (Table 1 in Appendix A) indicate that the concentrations of PCE was below the November 2020 EPA Residential or Industrial Screening Levels (SLs). No other compounds were detected above the laboratory detection limits in borings MW-17. No compounds of concern were detected in borings MW-16, MW-18, MW-19 or MW-20 above the laboratory method detection limits.

### **3.2 Groundwater Results**

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-17 and MW-17-Dup (Figure 3). The analytical test results (Table 2 in Appendix A) indicate that the groundwater samples from MW-17 and MW-17A contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE in borings MW-17 (0.0102 mg/L) and MW-17-Dup (0.0114 mg/L), which are above the TCE MCL of 0.005 mg/L (Figure 4).

### **3.3 Quality Control/Assurance Data Validation Report**

The data validation conducted on the laboratory analytical data for the five soil and six groundwater samples is considered acceptable for use in meeting the project objectives. The samples were submitted to the analytical laboratory the same day they were sampled on March 4 and 10, 2021.

Chain of custody forms were filled out for the soil and groundwater samples. Copies of the AWAL test reports and QC summary reports are included in Appendix B of this report.

#### 4.0 CONCLUSIONS

Based on the soil gas, soil and groundwater samples obtained in the vicinity of the Forsey Cleaners & Laundry facility, a historical release of dry-cleaning solvent occurred. Concentrations of PCE are present in the groundwater above the MCL in 12 of the 20 monitoring wells installed at the site. Concentrations of TCE are present in the groundwater above the MCL in five of the 20 monitoring wells installed at the site. VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and TCE in VP-1 and VP-2. Soil contamination above the EPA SLs has not been encountered during the previous four sampling events.

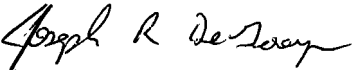
As the PCE groundwater contamination is above the MCL in MW-17 and MW-17A the extent of the PCE groundwater plume was not delineated with this sampling investigation, and has been shown to impact the neighboring properties to the west of the former dry cleaner. Based on the sampling to date, the PCE and TCE plumes likely extend below the north parking lots for the houses at 824 and 832 East 25<sup>th</sup> Street, west of MW-17.

#### 5.0 LIMITATIONS

This study has been prepared in accordance with generally accepted environmental practices in this area for the use of the client. The conclusions of the report are based on information obtained from field observations and testing of the soil and groundwater samples obtained at the approximate locations indicated in the report and the data obtained from the field and laboratory testing.

Applied Geotechnical Engineering Consultants, Inc. does not represent that the soil and groundwater on the property contains no hazardous materials or other latent conditions beyond what was found for the compounds and locations tested.

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.

  
Prepared by Joseph R. DeGooyer

  
Reviewed by Thomas R. Atkinson

## FIGURES



From NearMap Aerial Photograph  
September 11, 2020

**FORSEY CLEANERS & LAUNDRY**  
856 25TH STREET  
OGDEN, UTAH



Approximate Scale  
1 inch = 45 feet

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Monitoring Wells and Sample Locations

Figure 1



From NearMap Aerial Photograph  
September 11, 2020

**FORSEY CLEANERS & LAUNDRY**  
856 25TH STREET  
OGDEN, UTAH



Approximate Scale  
1 inch = 45 feet

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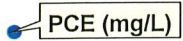


Groundwater Elevations (3-10-2021)

Figure 2



From NearMap Aerial Photograph  
September 11, 2020

 PCE (mg/L)



Approximate Scale  
1 inch = 45 feet

**FORSEY CLEANERS & LAUNDRY**  
856 25TH STREET  
OGDEN, UTAH

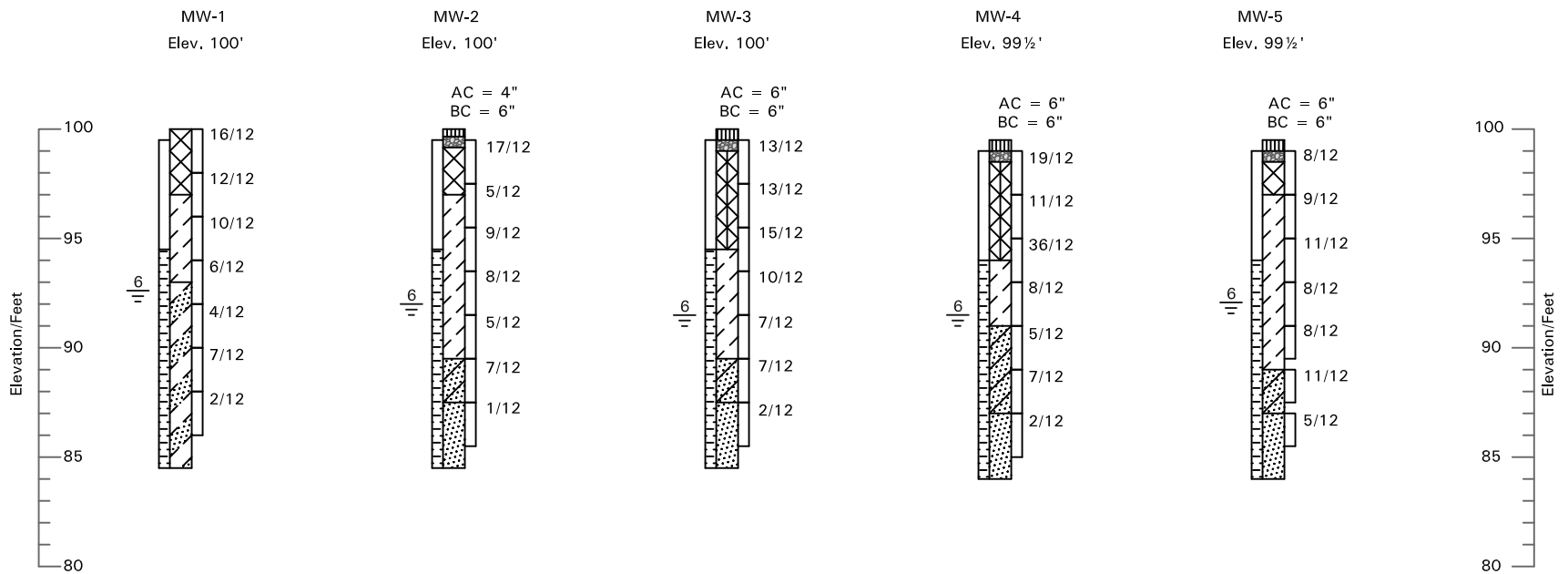
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PCE GW Concentrations (12/2020, 01/2021, 02, 2021 & 03/2021)

Figure 3

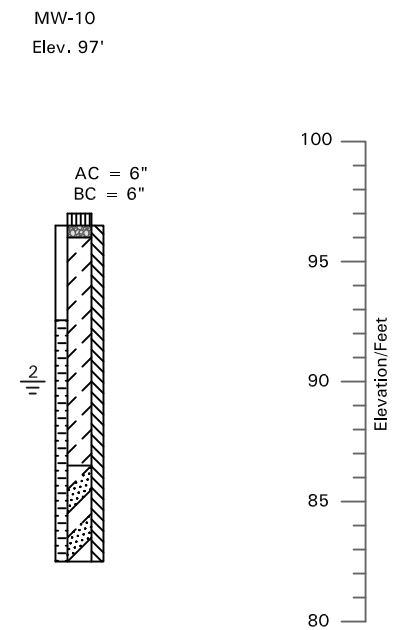
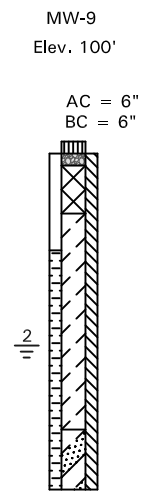
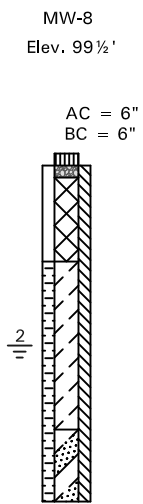
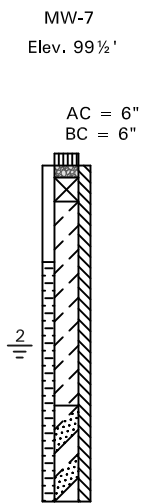
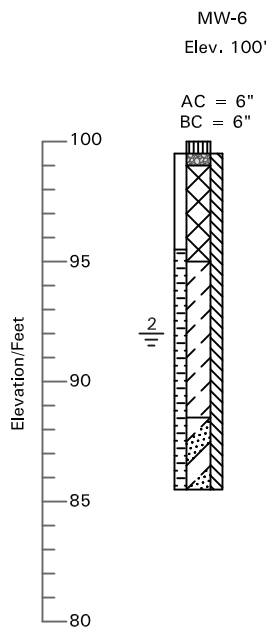




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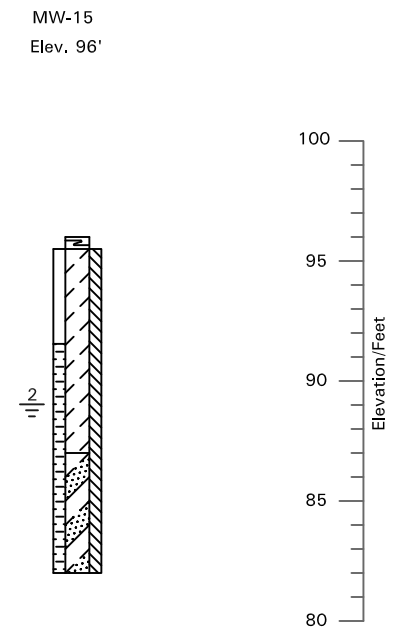
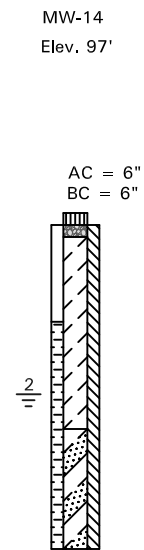
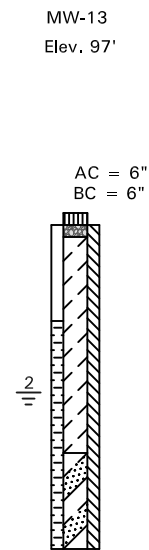
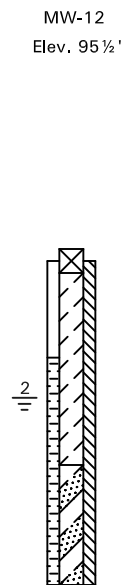
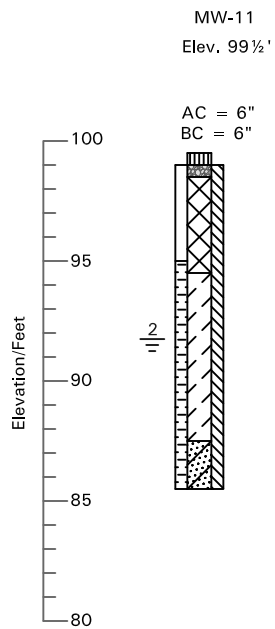
See Figure 9 for Legend and Notes





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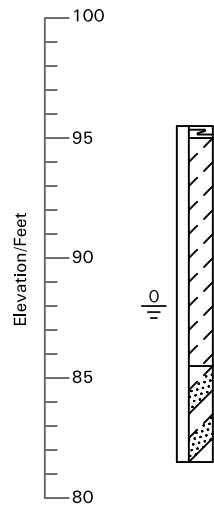
See Figure 9 for Legend and Notes



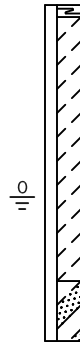
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See Figure 9 for Legend and Notes

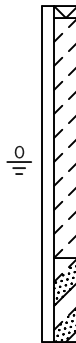
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Elev. 95 1/2'



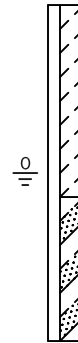
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Elev. 95 1/2'



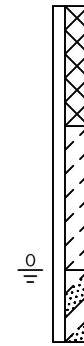
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Elev. 94 1/2'



WW-19  
Elev. 94'

















WW-20  
Elev. 96 1/2'



Approximate Vertical Scale 1" = 8'

See Figure 9 for Legend and Notes

LEGEND:

-  Asphaltic Concrete; dense, dry, black, poor to good condition.
-  Base Course; silty gravel with sand, moist, brown, angular aggregates.
-  Fill; lean clay to sandy lean clay to silty gravel with sand, moist, dark brown to brown to dark gray, petroleum hydrocarbon odor in MW-1 and MW-2.
-  Lean Clay (CL); sandy, stiff to medium stiff, moist, dark brown to brown, slight petroleum hydrocarbon odor in MW-2.
-  Silty Sand (SM); loose to medium dense, moist, light brown.
-  Poorly-graded Sand (SP); slightly gravelly, medium dense, wet, brown.
-  Poorly-graded Sand with Silty Sand (SP/SM); medium dense, moist, brown to gray.
-  Poorly-graded Gravel with Sand (GP); loose to very dense, moist to wet, brown to gray, petroleum hydrocarbon odor in MW-2.
-  Poorly-graded Gravel with Silt and Sand (GP-GM); medium dense, moist to wet, grayish brown.
-  10/12 California Drive sample taken. The symbol 10/12 indicates that 10 blows from a 140-pound automatic hammer falling 30 inches were required to drive the sampler 12 inches.
-  Indicates continuous soil sample taken. The samples were obtained with disposable acetate liners.
-  Indicates slotted 1 ½-inch PVC pipe installed in the boring to the depth shown.
-  Indicates solid 1 ½-inch PVC pipe installed in the boring to the depth shown.
-  Indicates the depth to free water and number of days after drilling the measurement was taken.

NOTES:

1. Borings MW-1 to MW-5 were drilled on December 3, 2020 using direct push equipment. Borings MW-6 to MW-10 were drilled on January 20, 2021. Borings MW-11 to MW-15 were drilled on February 8, 2021. Borings MW-16 to MW-20 were drilled on March 4, 2021.
2. Locations of the borings were measured approximately by pacing from features shown on the site plan provided.
3. Elevations of the borings were measured by automatic/hand level and refer to the benchmark shown on Figure 2.
4. The boring locations and elevations should be considered accurate only to the degree implied by the method used.
5. The lines between materials shown on the boring logs represent the approximate boundaries between material types and the transitions may be gradual.
6. The water level readings shown on the logs were made at the time and under the conditions indicated. Fluctuations in the water level will occur with time.

**APPENDIX A**

**ANALYTICAL RESULT TABLES**

Soil and Groundwater Analytical Results  
Forsey's Laundry

Table 1 - Soil Results

Sample	Depth (feet)	Date	PID (ppm)	MEK* (mg/kg)	PCE** (mg/kg)	TCE*** (mg/kg)
GP-1	0 to 2	1/20/2020	0.4	0.0306	0.0104	ND
GP-1	7	1/20/2020	5.4	0.031	0.0108	ND
GP-2	0 to 2	1/20/2020	0	0.0275	0.0135	ND
GP-2	7	1/20/2020	1.1	0.0324	ND	ND
MW-1	6 to 8	12/22/2020	0	ND	ND	ND
MW-2	6 ½ to 8 ½	12/22/2020	0.1	ND	0.00279	ND
MW-3	6 ½ to 8 ½	12/22/2020	0.1	ND	0.018	ND
MW-4	6 ½ to 8 ½	12/22/2020	0.2	ND	0.00385	ND
MW-5	6 ½ to 8 ½	12/22/2020	0.1	ND	0.00336	ND
MW-6	6 to 7	1/20/2021	0.4	ND	ND	ND
MW-6	10 to 11	1/20/2021	0.5	ND	ND	ND
MW-7	6 ½ to 8 ½	1/20/2021	0.6	ND	0.0221	ND
MW-8	6 ½ to 8 ½	1/20/2021	0.3	ND	ND	ND
MW-9	6 ½ to 8 ½	1/20/2021	0.3	ND	ND	ND
MW-10	6 ½ to 8 ½	1/20/2021	0.2	ND	0.0138	ND
MW-11	7 to 8	2/8/2021	0.2	ND	ND	ND
MW-12	9 to 10	2/8/2021	0.2	ND	0.239	0.0028
MW-13	8 to 9	2/8/2021	0.1	ND	ND	ND
MW-14	7 to 8	2/8/2021	0.2	ND	0.0318	ND
MW-15	6 to 7	2/8/2021	0.2	ND	0.103	ND
MW-16	6 to 7	3/4/2021	0.5	ND	ND	ND
MW-17	6 ½ to 7 ½	3/4/2021	0.3	ND	0.0202	ND
MW-18	5 to 6	3/4/2021	0.2	ND	ND	ND
MW-19	6 to 7	3/4/2021	0.4	ND	ND	ND
MW-20	8 to 9	3/4/2021	0.2	ND	ND	ND
MW-20	10 to 11	3/4/2021	0.3	ND	ND	ND
November 2020 EPA Residential SL				27,000	24	0.94
November 2020 EPA Industrial SL				190,000	100	6

ND = Non Detect

NA = Not Applicable

\* MEK identified as 2-Butadone in lab results

\*\* PCE identified as tetrachloroethene in lab results

\*\*\* TCE identified as trichloroethene in lab results

Table 2 - Groundwater Results

Sample	Depth (feet)	Date	PCE* (mg/L)	TCE** (mg/L)
GP-1	7	1/20/2020	0.0422	ND
GP-2	7	1/20/2020	0.00661	ND
MW-1	7.5	12/28/2020	ND	ND
MW-1-Dup	7.5	12/28/2020	ND	ND
MW-2	8.2	12/28/2020	0.0584	ND
MW-3	8.2	12/28/2020	0.739	0.00624
MW-4	8.1	12/28/2020	0.00585	ND
MW-5	7.8	12/28/2020	ND	ND
Trip Blank	NA	12/28/2020	ND	ND
MW-6	8.3	1/20/2021	0.0224	ND
MW-6-Dup	8.3	1/20/2021	0.0213	ND
MW-7	8.2	1/20/2021	0.204	ND
MW-8	8.4	1/20/2021	0.0372	ND
MW-9	8.7	1/20/2021	ND	ND
MW-10	6.4	1/20/2021	0.226	0.0127
Trip Blank	NA	1/20/2021	ND	ND
MW-11	7.8	2/10/2021	0.00729	ND
MW-12	6.2	2/10/2021	0.833	0.026
MW-12-Dup	6.2	2/10/2021	0.771	0.0258
MW-13	7.5	2/10/2021	0.002	ND
MW-14	7.5	2/10/2021	0.0326	ND
MW-15	7	2/10/2021	0.135	0.00619
Trip Blank	NA	2/10/2021	ND	ND
MW-16	5.7	3/10/2021	ND	ND
MW-17	6.8	3/10/2021	0.388	0.0102
MW-17-Dup	6.8	3/10/2021	0.417	0.0114
MW-18	5.6	3/10/2021	ND	ND
MW-19	5.6	3/10/2021	ND	ND
MW-20	8.9	3/10/2021	ND	ND
Trip Blank	NA	3/10/2021	ND	ND
November 2020 EPA MCL			0.005	0.005

ND = Non Detect

NA = Not Applicable

Above MCL

\* PCE identified as tetrachloroethene in lab results

\*\* TCE identified as trichloroethene in lab results

Table 3 - Soil Gas Analytical Results  
Forsey's Laundry

Chemical	CAS Number	Toxicity Basis	PRT-1 ( $\mu\text{g}/\text{m}^3$ )	PRT-2 ( $\mu\text{g}/\text{m}^3$ )	VP-1 ( $\mu\text{g}/\text{m}^3$ )	VP-2 ( $\mu\text{g}/\text{m}^3$ )	Residential Target Sub-Slab and Near-source Soil Gas Concentration (TCR = 1E-06 or THQ = 0.1)	Commercial Target Sub-Slab and Near-source Soil Gas Concentration (TCR = 1E-06 or THQ = 0.1)
							$C_{\text{sg, Target}}$ ( $\mu\text{g}/\text{m}^3$ )	$C_{\text{sg, Target}}$ ( $\mu\text{g}/\text{m}^3$ )
Acetone	67-64-1	NC	122	31.1	81.7	96.7	107,000	451,000
Benzene	71-43-2	CA	3.05	7.19	1.09	1.59	12	52.4
Butadiene, 1,3-	106-99-0	CA	ND	<b>26.8</b>	ND	ND	3.12	13.6
Carbon Disulfide	75-15-0	NC	ND	7.66	ND	ND	2,430	10,200
Carbon Tetrachloride	56-23-5	CA	2.03	ND	ND	ND	15.6	68.1
Chloroform	67-66-3	CA	ND	ND	ND	<b>17</b>	4.07	17.8
Chloromethane	74-87-3	NC	1.31	0.498	0.764	ND	313	1,310
Cyclohexane	110-82-7	NC	ND	ND	ND	0.813	20,900	87,600
Dichloroethene, 1,1-	75-35-4	NC	ND	ND	2.37	ND	695	2,920
Dichloroethene, cis 1,2-	156-59-2		ND	ND	19.6	9.67	NA	NA
Dioxane, 1,4-	123-91-1	CA	ND	ND	ND	6.56	18.7	81.8
Ethanol	64-17-5		50.5	7.52	30.4	27.5	NA	NA
Ethylbenzene	100-41-4	CA	1.08	1.21	1.68	ND	37.4	164
Ethyltoluene, 4-	622-96-8		ND	ND	2.91	ND	NA	NA
Trichlorofluoromethane	75-69-4		1.25	ND	2.24	1.31	NA	NA
Dichlorodifluoromethane	75-71-8	NC	ND	1.94	2.94	2.32	NA	NA
Heptane	142-82-5	NC	1.43	1.43	0.83	2.42	1,390	5,840
Hexane, N-	110-54-3	NC	2.92	4.05	1.23	6.49	2,430	10,200
Isopropylbenzene	98-82-8		ND	ND	2.18	ND	1,390	5,840
Methylene Chloride	75-09-2	CA	2.57	0.847	ND	1.24	2,090	8,760
2-Butanone (MEK)	78-93-3	NC	7.93	11.2	12.3	5.07	17,400	73,000
Naphthalene	91-20-3	CA	ND	ND	<b>5.97</b>	ND	2.75	12
2-Propanol (Isopropanol)	67-63-0	NC	5.92	ND	7.67	15	695	2,920
Propene (Propylene)	115-07-1	NC	ND	164	3.99	ND	10,400	43,800
Styrene	100-42-5	NC	ND	1.66	ND	ND	3,480	14,600
Tetrachloroethylene	127-18-4	CA	25.4	<b>468</b>	<b>37,100</b>	<b>74,000</b>	139	584
Toluene	108-88-3	NC	7.84	6.93	3.06	2.5	17,400	73,000
Trichloroethylene	79-01-6	NC	ND	ND	<b>399</b>	<b>427</b>	6.95	29.2
Trimethylbenzene, 1,2,4-	95-63-6	NC	2.05	1.03	4.49	ND	209	876
Trimethylpentane, 2,2,4-	540-84-1		5.05	ND	ND	ND	NA	NA
Xylene, M & P-	1330-20-7	NC	4.94	2.63	4.22	ND	348	1,460
Xylene, o-	95-47-6	NC	1.78	1.09	1.22	ND	348	1,460

NA = Not Available - No EPA Target

ND = Non Detect



Table 4 - Monitoring Well Construction Data  
Forsey Cleaners

Monitor Well ID	Drilling Method	Total Depth (BTOC)	Date Installed	Diameter/Well Material	Top of Casing Elevation (RSB)	Screened Interval (ft)	Sand Pack (ft)	Depth to Water BTOC (ft)	GW Elevation RSB (ft)
MW-1	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.61	5 to 15	3 to 15	7.16	92.45
MW-2	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.74	5 to 15	3 to 15	7.88	91.86
MW-3	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.42	5 to 15	3 to 15	7.93	91.49
MW-4	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.25	5 to 15	3 to 15	7.78	91.47
MW-5	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.14	5 to 15	3 to 15	7.53	91.61
MW-6	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.44	5 to 15	3 to 15	8.02	91.42
MW-7	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	98.96	5 to 15	3 to 15	7.86	91.10
MW-8	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.18	5 to 15	3 to 15	8.13	91.05
MW-9	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.78	5 to 15	3 to 15	8.36	91.42
MW-10	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	96.52	5 to 15	3 to 15	6.04	90.48
MW-11	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	98.97	4 to 14	3 to 14	7.70	91.27
MW-12	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	95.11	4 to 14	3 to 14	6.00	89.11
MW-13	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	96.77	4 to 14	3 to 14	7.44	89.33
MW-14	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	96.74	4 to 14	3 to 14	7.50	89.24
MW-15	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	95.66	4 to 14	3 to 14	9.92	85.74
MW-16	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	95.34	4 to 14	3 to 14	5.75	89.59
MW-17	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	95.44	4 to 14	3 to 14	6.85	88.59
MW-18	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	94.48	4 to 14	3 to 14	5.64	88.84
MW-19	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	94.22	4 to 14	3 to 14	5.61	88.61
MW-20	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	96.58	4 to 14	3 to 14	8.91	87.67

Depth to water measured in all 20 wells on 03/10/2021

BTOC = Below Top of Casing

RSB = Relative to Site Benchmark

**APPENDIX B**

**AWAL LABORATORY RESULTS**



Joe DeGooyer  
Applied Geotechnical  
600 West Sandy Parkway  
Sandy, UT 84070  
TEL: (801) 566-6399

RE: Forsey's Cleaners MW's 16-20 / 1210149

Dear Joe DeGooyer:

Lab Set ID: 2103147

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 3/4/2021 for the analyses presented in the following report.

Phone: (801) 263-8686  
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web: www.awal-labs.com

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: \_\_\_\_\_  
Laboratory Director or designee



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103147-001A  
**Client Sample ID:** MW-16 @ 6'-7'  
**Collection Date:** 3/4/2021 935h  
**Received Date:** 3/4/2021 1558h Test Code: 8260D-S

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D

**Analyzed:** 3/5/2021 1842h **Extracted:**  
**Units:** µg/kg-dry **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.50	< 2.50	#
1,1,2,2-Tetrachloroethane	79-34-5	2.50	< 2.50	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.50	< 2.50	
1,1,2-Trichloroethane	79-00-5	2.50	< 2.50	
1,1-Dichloroethane	75-34-3	2.50	< 2.50	
1,1-Dichloroethene	75-35-4	2.50	< 2.50	
1,2,3-Trichlorobenzene	87-61-6	2.50	< 2.50	
1,2,4-Trichlorobenzene	120-82-1	2.50	< 2.50	
1,2-Dibromo-3-chloropropane	96-12-8	6.24	< 6.24	
1,2-Dibromoethane	106-93-4	2.50	< 2.50	
1,2-Dichlorobenzene	95-50-1	2.50	< 2.50	
1,2-Dichloroethane	107-06-2	2.50	< 2.50	
1,2-Dichloropropane	78-87-5	2.50	< 2.50	
1,3-Dichlorobenzene	541-73-1	2.50	< 2.50	
1,4-Dichlorobenzene	106-46-7	2.50	< 2.50	
1,4-Dioxane	123-91-1	62.4	< 62.4	
2-Butanone	78-93-3	12.5	< 12.5	@\$
2-Hexanone	591-78-6	6.24	< 6.24	
4-Methyl-2-pentanone	108-10-1	6.24	< 6.24	
Acetone	67-64-1	12.5	< 12.5	\$
Benzene	71-43-2	2.50	< 2.50	
Bromochloromethane	74-97-5	2.50	< 2.50	
Bromodichloromethane	75-27-4	2.50	< 2.50	#
Bromoform	75-25-2	2.50	< 2.50	
Bromomethane	74-83-9	6.24	< 6.24	\$
Carbon disulfide	75-15-0	2.50	< 2.50	
Carbon tetrachloride	56-23-5	2.50	< 2.50	#
Chlorobenzene	108-90-7	2.50	< 2.50	
Chloroethane	75-00-3	2.50	< 2.50	\$



Lab Sample ID: 2103147-001A

Client Sample ID: MW-16 @ 6'-7'

Analyzed: 3/5/2021 1842h

Extracted:

Units: µg/kg-dry

Dilution Factor: 1

Method: SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.50	< 2.50	
Chloromethane	74-87-3	3.74	< 3.74	
cis-1,2-Dichloroethene	156-59-2	2.50	< 2.50	
cis-1,3-Dichloropropene	10061-01-5	2.50	< 2.50	
Cyclohexane	110-82-7	2.50	< 2.50	
Dibromochloromethane	124-48-1	2.50	< 2.50	
Dichlorodifluoromethane	75-71-8	2.50	< 2.50	#
Ethylbenzene	100-41-4	2.50	< 2.50	
Isopropylbenzene	98-82-8	2.50	< 2.50	
m,p-Xylene	179601-23-1	2.50	< 2.50	
Methyl Acetate	79-20-9	6.24	< 6.24	
Methyl tert-butyl ether	1634-04-4	2.50	< 2.50	
Methylcyclohexane	108-87-2	2.50	< 2.50	
Methylene chloride	75-09-2	6.24	< 6.24	
Naphthalene	91-20-3	2.50	< 2.50	
o-Xylene	95-47-6	2.50	< 2.50	
Styrene	100-42-5	2.50	< 2.50	
Tetrachloroethene	127-18-4	2.50	< 2.50	
Toluene	108-88-3	2.50	< 2.50	
trans-1,2-Dichloroethene	156-60-5	2.50	< 2.50	
trans-1,3-Dichloropropene	10061-02-6	2.50	< 2.50	#
Trichloroethene	79-01-6	2.50	< 2.50	
Trichlorofluoromethane	75-69-4	2.50	< 2.50	#
Vinyl chloride	75-01-4	1.25	< 1.25	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	73.7	62.38	118	70-145	
Surr: 4-Bromofluorobenzene		460-00-4	53.6	62.38	85.9	70-128	
Surr: Dibromofluoromethane		1868-53-7	59.6	62.38	95.6	70-133	
Surr: Toluene-d8		2037-26-5	54.9	62.38	88.0	70-123	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103147-002A  
**Client Sample ID:** MW-17 @ 6.5'-7.5'  
**Collection Date:** 3/4/2021 1020h  
**Received Date:** 3/4/2021 1558h Test Code: 8260D-S

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D

**Analyzed:** 3/5/2021 1944h **Extracted:**  
**Units:** µg/kg-dry **Dilution Factor:** 1 **Method:** SW8260D

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.50	< 2.50	#
1,1,2,2-Tetrachloroethane	79-34-5	2.50	< 2.50	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.50	< 2.50	
1,1,2-Trichloroethane	79-00-5	2.50	< 2.50	
1,1-Dichloroethane	75-34-3	2.50	< 2.50	
1,1-Dichloroethene	75-35-4	2.50	< 2.50	
1,2,3-Trichlorobenzene	87-61-6	2.50	< 2.50	
1,2,4-Trichlorobenzene	120-82-1	2.50	< 2.50	
1,2-Dibromo-3-chloropropane	96-12-8	6.26	< 6.26	
1,2-Dibromoethane	106-93-4	2.50	< 2.50	
1,2-Dichlorobenzene	95-50-1	2.50	< 2.50	
1,2-Dichloroethane	107-06-2	2.50	< 2.50	
1,2-Dichloropropane	78-87-5	2.50	< 2.50	
1,3-Dichlorobenzene	541-73-1	2.50	< 2.50	
1,4-Dichlorobenzene	106-46-7	2.50	< 2.50	
1,4-Dioxane	123-91-1	62.6	< 62.6	
2-Butanone	78-93-3	12.5	< 12.5	\$
2-Hexanone	591-78-6	6.26	< 6.26	
4-Methyl-2-pentanone	108-10-1	6.26	< 6.26	
Acetone	67-64-1	12.5	< 12.5	\$
Benzene	71-43-2	2.50	< 2.50	
Bromochloromethane	74-97-5	2.50	< 2.50	
Bromodichloromethane	75-27-4	2.50	< 2.50	#
Bromoform	75-25-2	2.50	< 2.50	
Bromomethane	74-83-9	6.26	< 6.26	\$
Carbon disulfide	75-15-0	2.50	< 2.50	
Carbon tetrachloride	56-23-5	2.50	< 2.50	#
Chlorobenzene	108-90-7	2.50	< 2.50	
Chloroethane	75-00-3	2.50	< 2.50	\$



**Lab Sample ID:** 2103147-002A  
**Client Sample ID:** MW-17 @ 6.5'-7.5'

**Analyzed:** 3/5/2021 1944h      **Extracted:**  
**Units:** µg/kg-dry      **Dilution Factor:** 1      **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.50	< 2.50	
Chloromethane	74-87-3	3.76	< 3.76	
cis-1,2-Dichloroethene	156-59-2	2.50	< 2.50	
cis-1,3-Dichloropropene	10061-01-5	2.50	< 2.50	
Cyclohexane	110-82-7	2.50	< 2.50	
Dibromochloromethane	124-48-1	2.50	< 2.50	
Dichlorodifluoromethane	75-71-8	2.50	< 2.50	#
Ethylbenzene	100-41-4	2.50	< 2.50	
Isopropylbenzene	98-82-8	2.50	< 2.50	
m,p-Xylene	179601-23-1	2.50	< 2.50	
Methyl Acetate	79-20-9	6.26	< 6.26	
Methyl tert-butyl ether	1634-04-4	2.50	< 2.50	
Methylcyclohexane	108-87-2	2.50	< 2.50	
Methylene chloride	75-09-2	6.26	< 6.26	
Naphthalene	91-20-3	2.50	< 2.50	
o-Xylene	95-47-6	2.50	< 2.50	
Styrene	100-42-5	2.50	< 2.50	
Tetrachloroethene	127-18-4	2.50	<b>20.2</b>	
Toluene	108-88-3	2.50	< 2.50	
trans-1,2-Dichloroethene	156-60-5	2.50	< 2.50	
trans-1,3-Dichloropropene	10061-02-6	2.50	< 2.50	#
Trichloroethene	79-01-6	2.50	< 2.50	
Trichlorofluoromethane	75-69-4	2.50	< 2.50	#
Vinyl chloride	75-01-4	1.25	< 1.25	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	71.9	62.59	115	70-145	
Surr: 4-Bromofluorobenzene		460-00-4	54.7	62.59	87.4	70-128	
Surr: Dibromofluoromethane		1868-53-7	59.5	62.59	95.1	70-133	
Surr: Toluene-d8		2037-26-5	56.8	62.59	90.7	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



## ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103147-003A  
**Client Sample ID:** MW-18 @ 5'-6'  
**Collection Date:** 3/4/2021 1055h  
**Received Date:** 3/4/2021 1558h Test Code: 8260D-S

### Analytical Results

VOAs AWAL List by GC/MS Method 8260D

**Analyzed:** 3/5/2021 2004h **Extracted:**  
**Units:** µg/kg-dry **Dilution Factor:** 1.01 **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.52	< 2.52	#
1,1,2,2-Tetrachloroethane	79-34-5	2.52	< 2.52	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.52	< 2.52	
1,1,2-Trichloroethane	79-00-5	2.52	< 2.52	
1,1-Dichloroethane	75-34-3	2.52	< 2.52	
1,1-Dichloroethene	75-35-4	2.52	< 2.52	
1,2,3-Trichlorobenzene	87-61-6	2.52	< 2.52	
1,2,4-Trichlorobenzene	120-82-1	2.52	< 2.52	
1,2-Dibromo-3-chloropropane	96-12-8	6.29	< 6.29	
1,2-Dibromoethane	106-93-4	2.52	< 2.52	
1,2-Dichlorobenzene	95-50-1	2.52	< 2.52	
1,2-Dichloroethane	107-06-2	2.52	< 2.52	
1,2-Dichloropropane	78-87-5	2.52	< 2.52	
1,3-Dichlorobenzene	541-73-1	2.52	< 2.52	
1,4-Dichlorobenzene	106-46-7	2.52	< 2.52	
1,4-Dioxane	123-91-1	62.9	< 62.9	
2-Butanone	78-93-3	12.6	< 12.6	\$
2-Hexanone	591-78-6	6.29	< 6.29	
4-Methyl-2-pentanone	108-10-1	6.29	< 6.29	
Acetone	67-64-1	12.6	< 12.6	\$
Benzene	71-43-2	2.52	< 2.52	
Bromochloromethane	74-97-5	2.52	< 2.52	
Bromodichloromethane	75-27-4	2.52	< 2.52	#
Bromoform	75-25-2	2.52	< 2.52	
Bromomethane	74-83-9	6.29	< 6.29	\$
Carbon disulfide	75-15-0	2.52	< 2.52	
Carbon tetrachloride	56-23-5	2.52	< 2.52	#
Chlorobenzene	108-90-7	2.52	< 2.52	
Chloroethane	75-00-3	2.52	< 2.52	\$





**Lab Sample ID:** 2103147-003A

**Client Sample ID:** MW-18 @ 5'-6'

**Analyzed:** 3/5/2021 2004h

**Extracted:**

**Units:** µg/kg-dry

**Dilution Factor:** 1.01

**Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.52	< 2.52	
Chloromethane	74-87-3	3.77	< 3.77	
cis-1,2-Dichloroethene	156-59-2	2.52	< 2.52	
cis-1,3-Dichloropropene	10061-01-5	2.52	< 2.52	
Cyclohexane	110-82-7	2.52	< 2.52	
Dibromochloromethane	124-48-1	2.52	< 2.52	
Dichlorodifluoromethane	75-71-8	2.52	< 2.52	#
Ethylbenzene	100-41-4	2.52	< 2.52	
Isopropylbenzene	98-82-8	2.52	< 2.52	
m,p-Xylene	179601-23-1	2.52	< 2.52	
Methyl Acetate	79-20-9	6.29	< 6.29	
Methyl tert-butyl ether	1634-04-4	2.52	< 2.52	
Methylcyclohexane	108-87-2	2.52	< 2.52	
Methylene chloride	75-09-2	6.29	< 6.29	
Naphthalene	91-20-3	2.52	< 2.52	
o-Xylene	95-47-6	2.52	< 2.52	
Styrene	100-42-5	2.52	< 2.52	
Tetrachloroethene	127-18-4	2.52	< 2.52	
Toluene	108-88-3	2.52	< 2.52	
trans-1,2-Dichloroethene	156-60-5	2.52	< 2.52	
trans-1,3-Dichloropropene	10061-02-6	2.52	< 2.52	#
Trichloroethene	79-01-6	2.52	< 2.52	
Trichlorofluoromethane	75-69-4	2.52	< 2.52	#
Vinyl chloride	75-01-4	1.26	< 1.26	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	74.7	62.88	119	70-145	
Surr: 4-Bromofluorobenzene		460-00-4	54.8	62.88	87.1	70-128	
Surr: Dibromofluoromethane		1868-53-7	60.8	62.88	96.7	70-133	
Surr: Toluene-d8		2037-26-5	56.2	62.88	89.3	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103147-004A  
**Client Sample ID:** MW-19 @ 6'-7'  
**Collection Date:** 3/4/2021 1130h  
**Received Date:** 3/4/2021 1558h

Test Code: 8260D-S

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D

**Analyzed:** 3/5/2021 2024h **Extracted:**  
**Units:** µg/kg-dry **Dilution Factor:** 0.99 **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.52	< 2.52	#
1,1,2,2-Tetrachloroethane	79-34-5	2.52	< 2.52	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.52	< 2.52	
1,1,2-Trichloroethane	79-00-5	2.52	< 2.52	
1,1-Dichloroethane	75-34-3	2.52	< 2.52	
1,1-Dichloroethene	75-35-4	2.52	< 2.52	
1,2,3-Trichlorobenzene	87-61-6	2.52	< 2.52	
1,2,4-Trichlorobenzene	120-82-1	2.52	< 2.52	
1,2-Dibromo-3-chloropropane	96-12-8	6.30	< 6.30	
1,2-Dibromoethane	106-93-4	2.52	< 2.52	
1,2-Dichlorobenzene	95-50-1	2.52	< 2.52	
1,2-Dichloroethane	107-06-2	2.52	< 2.52	
1,2-Dichloropropane	78-87-5	2.52	< 2.52	
1,3-Dichlorobenzene	541-73-1	2.52	< 2.52	
1,4-Dichlorobenzene	106-46-7	2.52	< 2.52	
1,4-Dioxane	123-91-1	63.0	< 63.0	
2-Butanone	78-93-3	12.6	< 12.6	\$
2-Hexanone	591-78-6	6.30	< 6.30	
4-Methyl-2-pentanone	108-10-1	6.30	< 6.30	
Acetone	67-64-1	12.6	< 12.6	\$
Benzene	71-43-2	2.52	< 2.52	
Bromochloromethane	74-97-5	2.52	< 2.52	
Bromodichloromethane	75-27-4	2.52	< 2.52	#
Bromoform	75-25-2	2.52	< 2.52	
Bromomethane	74-83-9	6.30	< 6.30	\$
Carbon disulfide	75-15-0	2.52	< 2.52	
Carbon tetrachloride	56-23-5	2.52	< 2.52	#
Chlorobenzene	108-90-7	2.52	< 2.52	
Chloroethane	75-00-3	2.52	< 2.52	\$



Lab Sample ID: 2103147-004A

Client Sample ID: MW-19 @ 6'-7'

Analyzed: 3/5/2021 2024h

Extracted:

Units: µg/kg-dry

Dilution Factor: 0.99

Method: SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.52	< 2.52	
Chloromethane	74-87-3	3.78	< 3.78	
cis-1,2-Dichloroethene	156-59-2	2.52	< 2.52	
cis-1,3-Dichloropropene	10061-01-5	2.52	< 2.52	
Cyclohexane	110-82-7	2.52	< 2.52	
Dibromochloromethane	124-48-1	2.52	< 2.52	
Dichlorodifluoromethane	75-71-8	2.52	< 2.52	#
Ethylbenzene	100-41-4	2.52	< 2.52	
Isopropylbenzene	98-82-8	2.52	< 2.52	
m,p-Xylene	179601-23-1	2.52	< 2.52	
Methyl Acetate	79-20-9	6.30	< 6.30	
Methyl tert-butyl ether	1634-04-4	2.52	< 2.52	
Methylcyclohexane	108-87-2	2.52	< 2.52	
Methylene chloride	75-09-2	6.30	< 6.30	
Naphthalene	91-20-3	2.52	< 2.52	
o-Xylene	95-47-6	2.52	< 2.52	
Styrene	100-42-5	2.52	< 2.52	
Tetrachloroethene	127-18-4	2.52	< 2.52	
Toluene	108-88-3	2.52	< 2.52	
trans-1,2-Dichloroethene	156-60-5	2.52	< 2.52	
trans-1,3-Dichloropropene	10061-02-6	2.52	< 2.52	#
Trichloroethene	79-01-6	2.52	< 2.52	
Trichlorofluoromethane	75-69-4	2.52	< 2.52	#
Vinyl chloride	75-01-4	1.26	< 1.26	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	77.8	63.03	123	70-145	
Surr: 4-Bromofluorobenzene		460-00-4	57.0	63.03	90.5	70-128	
Surr: Dibromofluoromethane		1868-53-7	63.4	63.03	101	70-133	
Surr: Toluene-d8		2037-26-5	57.0	63.03	90.4	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103147-005A  
**Client Sample ID:** MW-20 @ 8'-9'  
**Collection Date:** 3/4/2021 1215h  
**Received Date:** 3/4/2021 1558h Test Code: 8260D-S

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D

**Analyzed:** 3/5/2021 2045h **Extracted:**  
**Units:** µg/kg-dry **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.47	< 2.47	#
1,1,2,2-Tetrachloroethane	79-34-5	2.47	< 2.47	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.47	< 2.47	
1,1,2-Trichloroethane	79-00-5	2.47	< 2.47	
1,1-Dichloroethane	75-34-3	2.47	< 2.47	
1,1-Dichloroethene	75-35-4	2.47	< 2.47	
1,2,3-Trichlorobenzene	87-61-6	2.47	< 2.47	
1,2,4-Trichlorobenzene	120-82-1	2.47	< 2.47	
1,2-Dibromo-3-chloropropane	96-12-8	6.17	< 6.17	
1,2-Dibromoethane	106-93-4	2.47	< 2.47	
1,2-Dichlorobenzene	95-50-1	2.47	< 2.47	
1,2-Dichloroethane	107-06-2	2.47	< 2.47	
1,2-Dichloropropane	78-87-5	2.47	< 2.47	
1,3-Dichlorobenzene	541-73-1	2.47	< 2.47	
1,4-Dichlorobenzene	106-46-7	2.47	< 2.47	
1,4-Dioxane	123-91-1	61.7	< 61.7	
2-Butanone	78-93-3	12.3	< 12.3	\$
2-Hexanone	591-78-6	6.17	< 6.17	
4-Methyl-2-pentanone	108-10-1	6.17	< 6.17	
Acetone	67-64-1	12.3	< 12.3	\$
Benzene	71-43-2	2.47	< 2.47	
Bromochloromethane	74-97-5	2.47	< 2.47	
Bromodichloromethane	75-27-4	2.47	< 2.47	#
Bromoform	75-25-2	2.47	< 2.47	
Bromomethane	74-83-9	6.17	< 6.17	\$
Carbon disulfide	75-15-0	2.47	< 2.47	
Carbon tetrachloride	56-23-5	2.47	< 2.47	#
Chlorobenzene	108-90-7	2.47	< 2.47	
Chloroethane	75-00-3	2.47	< 2.47	\$



Lab Sample ID: 2103147-005A

Client Sample ID: MW-20 @ 8'-9'

Analyzed: 3/5/2021 2045h

Extracted:

Units: µg/kg-dry

Dilution Factor: 1

Method: SW8260D

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Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.47	< 2.47	
Chloromethane	74-87-3	3.70	< 3.70	
cis-1,2-Dichloroethene	156-59-2	2.47	< 2.47	
cis-1,3-Dichloropropene	10061-01-5	2.47	< 2.47	
Cyclohexane	110-82-7	2.47	< 2.47	
Dibromochloromethane	124-48-1	2.47	< 2.47	
Dichlorodifluoromethane	75-71-8	2.47	< 2.47	#
Ethylbenzene	100-41-4	2.47	< 2.47	
Isopropylbenzene	98-82-8	2.47	< 2.47	
m,p-Xylene	179601-23-1	2.47	< 2.47	
Methyl Acetate	79-20-9	6.17	< 6.17	
Methyl tert-butyl ether	1634-04-4	2.47	< 2.47	
Methylcyclohexane	108-87-2	2.47	< 2.47	
Methylene chloride	75-09-2	6.17	< 6.17	
Naphthalene	91-20-3	2.47	< 2.47	
o-Xylene	95-47-6	2.47	< 2.47	
Styrene	100-42-5	2.47	< 2.47	
Tetrachloroethene	127-18-4	2.47	< 2.47	
Toluene	108-88-3	2.47	< 2.47	
trans-1,2-Dichloroethene	156-60-5	2.47	< 2.47	
trans-1,3-Dichloropropene	10061-02-6	2.47	< 2.47	#
Trichloroethene	79-01-6	2.47	< 2.47	
Trichlorofluoromethane	75-69-4	2.47	< 2.47	#
Vinyl chloride	75-01-4	1.23	< 1.23	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	78.8	61.68	128	70-145	
Surr: 4-Bromofluorobenzene		460-00-4	53.6	61.68	86.9	70-128	
Surr: Dibromofluoromethane		1868-53-7	61.3	61.68	99.4	70-133	
Surr: Toluene-d8		2037-26-5	55.3	61.68	89.6	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103147-006A  
**Client Sample ID:** MW-20 @ 10'-11'  
**Collection Date:** 3/4/2021 1220h  
**Received Date:** 3/4/2021 1558h Test Code: 8260D-S

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D

**Analyzed:** 3/5/2021 2105h **Extracted:**  
**Units:** µg/kg-dry **Dilution Factor:** 0.97 **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.41	< 2.41	#
1,1,2,2-Tetrachloroethane	79-34-5	2.41	< 2.41	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.41	< 2.41	
1,1,2-Trichloroethane	79-00-5	2.41	< 2.41	
1,1-Dichloroethane	75-34-3	2.41	< 2.41	
1,1-Dichloroethene	75-35-4	2.41	< 2.41	
1,2,3-Trichlorobenzene	87-61-6	2.41	< 2.41	
1,2,4-Trichlorobenzene	120-82-1	2.41	< 2.41	
1,2-Dibromo-3-chloropropane	96-12-8	6.04	< 6.04	
1,2-Dibromoethane	106-93-4	2.41	< 2.41	
1,2-Dichlorobenzene	95-50-1	2.41	< 2.41	
1,2-Dichloroethane	107-06-2	2.41	< 2.41	
1,2-Dichloropropane	78-87-5	2.41	< 2.41	
1,3-Dichlorobenzene	541-73-1	2.41	< 2.41	
1,4-Dichlorobenzene	106-46-7	2.41	< 2.41	
1,4-Dioxane	123-91-1	60.4	< 60.4	
2-Butanone	78-93-3	12.1	< 12.1	\$
2-Hexanone	591-78-6	6.04	< 6.04	
4-Methyl-2-pentanone	108-10-1	6.04	< 6.04	
Acetone	67-64-1	12.1	< 12.1	\$
Benzene	71-43-2	2.41	< 2.41	
Bromochloromethane	74-97-5	2.41	< 2.41	
Bromodichloromethane	75-27-4	2.41	< 2.41	#
Bromoform	75-25-2	2.41	< 2.41	
Bromomethane	74-83-9	6.04	< 6.04	\$
Carbon disulfide	75-15-0	2.41	< 2.41	
Carbon tetrachloride	56-23-5	2.41	< 2.41	#
Chlorobenzene	108-90-7	2.41	< 2.41	
Chloroethane	75-00-3	2.41	< 2.41	\$



**Lab Sample ID:** 2103147-006A  
**Client Sample ID:** MW-20 @ 10'-11'

**Analyzed:** 3/5/2021 2105h      **Extracted:**  
**Units:** µg/kg-dry      **Dilution Factor:** 0.97      **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	2.41	< 2.41	
Chloromethane	74-87-3	3.62	< 3.62	
cis-1,2-Dichloroethene	156-59-2	2.41	< 2.41	
cis-1,3-Dichloropropene	10061-01-5	2.41	< 2.41	
Cyclohexane	110-82-7	2.41	< 2.41	
Dibromochloromethane	124-48-1	2.41	< 2.41	
Dichlorodifluoromethane	75-71-8	2.41	< 2.41	#
Ethylbenzene	100-41-4	2.41	< 2.41	
Isopropylbenzene	98-82-8	2.41	< 2.41	
m,p-Xylene	179601-23-1	2.41	< 2.41	
Methyl Acetate	79-20-9	6.04	< 6.04	
Methyl tert-butyl ether	1634-04-4	2.41	< 2.41	
Methylcyclohexane	108-87-2	2.41	< 2.41	
Methylene chloride	75-09-2	6.04	< 6.04	
Naphthalene	91-20-3	2.41	< 2.41	
o-Xylene	95-47-6	2.41	< 2.41	
Styrene	100-42-5	2.41	< 2.41	
Tetrachloroethene	127-18-4	2.41	< 2.41	
Toluene	108-88-3	2.41	< 2.41	
trans-1,2-Dichloroethene	156-60-5	2.41	< 2.41	
trans-1,3-Dichloropropene	10061-02-6	2.41	< 2.41	#
Trichloroethene	79-01-6	2.41	< 2.41	
Trichlorofluoromethane	75-69-4	2.41	< 2.41	#
Vinyl chloride	75-01-4	1.21	< 1.21	

Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	76.0	60.33	126	70-145	
Surr: 4-Bromofluorobenzene		460-00-4	53.4	60.33	88.6	70-128	
Surr: Dibromofluoromethane		1868-53-7	58.8	60.33	97.5	70-133	
Surr: Toluene-d8		2037-26-5	54.1	60.33	89.7	70-123	

Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.

# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.

\$ - This compound exceeded (low) the control limit for the CCV. The compound concentration is estimated and may be biased low.



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-3 030521B	Date Analyzed:	03/05/2021 1802h											
<b>Test Code:</b> 8260D-S													
1,1,1-Trichloroethane	23.4	µg/kg	SW8260D	0.231	2.00	20.00	0	117	64 - 137				
1,1,2,2-Tetrachloroethane	19.6	µg/kg	SW8260D	0.312	2.00	20.00	0	98.0	74 - 150				
1,1,2-Trichloro-1,2,2-trifluoroethane	23.8	µg/kg	SW8260D	0.934	2.00	20.00	0	119	37 - 170				
1,1,2-Trichloroethane	19.3	µg/kg	SW8260D	0.178	2.00	20.00	0	96.6	80 - 117				
1,1-Dichloroethane	19.4	µg/kg	SW8260D	0.131	2.00	20.00	0	96.8	70 - 175				
1,1-Dichloroethene	20.0	µg/kg	SW8260D	0.612	2.00	20.00	0	100	42 - 210				
1,2,3-Trichlorobenzene	17.0	µg/kg	SW8260D	1.03	2.00	20.00	0	85.0	36 - 135				
1,2,4-Trichlorobenzene	16.5	µg/kg	SW8260D	1.18	2.00	20.00	0	82.3	21 - 140				
1,2-Dibromo-3-chloropropane	15.7	µg/kg	SW8260D	0.666	5.00	20.00	0	78.6	62 - 132				
1,2-Dibromoethane	18.7	µg/kg	SW8260D	0.260	2.00	20.00	0	93.5	76 - 125				
1,2-Dichlorobenzene	18.6	µg/kg	SW8260D	0.678	2.00	20.00	0	92.8	56 - 125				
1,2-Dichloroethane	21.3	µg/kg	SW8260D	0.118	2.00	20.00	0	107	79 - 135				
1,2-Dichloropropane	20.2	µg/kg	SW8260D	0.649	2.00	20.00	0	101	68 - 133				
1,3-Dichlorobenzene	19.8	µg/kg	SW8260D	1.03	2.00	20.00	0	98.8	45 - 135				
1,4-Dichlorobenzene	19.7	µg/kg	SW8260D	0.850	2.00	20.00	0	98.4	43 - 135				
1,4-Dioxane	128	µg/kg	SW8260D	27.7	50.0	200.0	0	63.8	58 - 146				
2-Butanone	33.9	µg/kg	SW8260D	3.02	10.0	20.00	0	170	56 - 184				
2-Hexanone	26.5	µg/kg	SW8260D	2.06	5.00	20.00	0	132	61 - 192				
4-Methyl-2-pentanone	18.3	µg/kg	SW8260D	1.75	5.00	20.00	0	91.4	58 - 145				
Acetone	32.6	µg/kg	SW8260D	8.22	10.0	20.00	0	163	17 - 296				
Benzene	18.9	µg/kg	SW8260D	0.338	2.00	20.00	0	94.4	70 - 140				
Bromochloromethane	18.0	µg/kg	SW8260D	0.239	2.00	20.00	0	90.3	69 - 123				
Bromodichloromethane	21.9	µg/kg	SW8260D	0.796	2.00	20.00	0	110	76 - 140				
Bromoform	20.2	µg/kg	SW8260D	0.289	2.00	20.00	0	101	71 - 175				
Bromomethane	13.8	µg/kg	SW8260D	2.61	5.00	20.00	0	69.1	10 - 168				
Carbon disulfide	19.0	µg/kg	SW8260D	0.247	2.00	20.00	0	94.8	31 - 174				
Carbon tetrachloride	24.3	µg/kg	SW8260D	0.419	2.00	20.00	0	121	58 - 145				
Chlorobenzene	19.4	µg/kg	SW8260D	0.535	2.00	20.00	0	97.0	61 - 125				





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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-3 030521B	Date Analyzed:	03/05/2021 1802h											
<b>Test Code:</b> 8260D-S													
Chloroethane	14.8	µg/kg	SW8260D	1.19	2.00	20.00	0	74.0	10 - 161				
Chloroform	20.6	µg/kg	SW8260D	0.660	2.00	20.00	0	103	74 - 135				
Chloromethane	17.1	µg/kg	SW8260D	1.59	3.00	20.00	0	85.4	30 - 149				
cis-1,2-Dichloroethene	18.3	µg/kg	SW8260D	0.329	2.00	20.00	0	91.3	63 - 142				
cis-1,3-Dichloropropene	20.1	µg/kg	SW8260D	0.305	2.00	20.00	0	100	67 - 127				
Cyclohexane	18.4	µg/kg	SW8260D	0.800	2.00	20.00	0	92.0	44 - 162				
Dibromochloromethane	19.6	µg/kg	SW8260D	0.136	2.00	20.00	0	97.9	76 - 121				
Dichlorodifluoromethane	15.0	µg/kg	SW8260D	1.17	2.00	20.00	0	75.1	20 - 130				
Ethylbenzene	19.3	µg/kg	SW8260D	0.675	2.00	20.00	0	96.7	52 - 140				
Isopropylbenzene	20.4	µg/kg	SW8260D	1.75	2.00	20.00	0	102	50 - 140				
m,p-Xylene	43.1	µg/kg	SW8260D	0.811	2.00	40.00	0	108	44 - 142				
Methyl Acetate	33.3	µg/kg	SW8260D	2.20	5.00	20.00	0	167	70 - 240				
Methyl tert-butyl ether	17.0	µg/kg	SW8260D	0.210	2.00	20.00	0	84.8	60 - 128				
Methylcyclohexane	22.8	µg/kg	SW8260D	1.20	2.00	20.00	0	114	41 - 171				
Methylene chloride	15.6	µg/kg	SW8260D	2.38	5.00	20.00	0	77.8	10 - 128				
Naphthalene	14.2	µg/kg	SW8260D	1.03	2.00	20.00	0	71.0	43 - 135				
o-Xylene	18.2	µg/kg	SW8260D	0.696	2.00	20.00	0	91.0	44 - 142				
Styrene	19.7	µg/kg	SW8260D	0.739	2.00	20.00	0	98.4	56 - 140				
Tetrachloroethene	24.3	µg/kg	SW8260D	0.460	2.00	20.00	0	122	40 - 200				
Toluene	19.9	µg/kg	SW8260D	0.448	2.00	20.00	0	99.4	54 - 138				
trans-1,2-Dichloroethene	18.9	µg/kg	SW8260D	0.261	2.00	20.00	0	94.3	57 - 175				
trans-1,3-Dichloropropene	20.5	µg/kg	SW8260D	0.285	2.00	20.00	0	102	66 - 117				
Trichloroethene	22.6	µg/kg	SW8260D	0.356	2.00	20.00	0	113	61 - 143				
Trichlorofluoromethane	22.6	µg/kg	SW8260D	0.234	2.00	20.00	0	113	10 - 140				
Vinyl chloride	14.8	µg/kg	SW8260D	0.196	1.00	20.00	0	74.2	47 - 135				
Surr: 1,2-Dichloroethane-d4	53.9	µg/kg	SW8260D			50.00		108	70 - 145				
Surr: 4-Bromofluorobenzene	45.4	µg/kg	SW8260D			50.00		90.8	70 - 128				
Surr: Dibromofluoromethane	46.7	µg/kg	SW8260D			50.00		93.5	70 - 133				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-3 030521B	Date Analyzed: 03/05/2021 1802h												
Test Code: 8260D-S													
Surr: Toluene-d8	46.4	µg/kg	SW8260D			50.00		92.8	70 - 123				



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**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB VOC-3 030521B	Date Analyzed:	03/05/2021 1822h											
<b>Test Code:</b> 8260D-S													
1,1,1-Trichloroethane	< 2.00	µg/kg	SW8260D	0.231	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/kg	SW8260D	0.312	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/kg	SW8260D	0.934	2.00								
1,1,2-Trichloroethane	< 2.00	µg/kg	SW8260D	0.178	2.00								
1,1-Dichloroethane	< 2.00	µg/kg	SW8260D	0.131	2.00								
1,1-Dichloroethene	< 2.00	µg/kg	SW8260D	0.612	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/kg	SW8260D	1.03	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/kg	SW8260D	1.18	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/kg	SW8260D	0.666	5.00								
1,2-Dibromoethane	< 2.00	µg/kg	SW8260D	0.260	2.00								
1,2-Dichlorobenzene	< 2.00	µg/kg	SW8260D	0.678	2.00								
1,2-Dichloroethane	< 2.00	µg/kg	SW8260D	0.118	2.00								
1,2-Dichloropropane	< 2.00	µg/kg	SW8260D	0.649	2.00								
1,3-Dichlorobenzene	< 2.00	µg/kg	SW8260D	1.03	2.00								
1,4-Dichlorobenzene	< 2.00	µg/kg	SW8260D	0.850	2.00								
1,4-Dioxane	< 50.0	µg/kg	SW8260D	27.7	50.0								
2-Butanone	< 10.0	µg/kg	SW8260D	3.02	10.0								
2-Hexanone	< 5.00	µg/kg	SW8260D	2.06	5.00								
4-Methyl-2-pentanone	< 5.00	µg/kg	SW8260D	1.75	5.00								
Acetone	< 10.0	µg/kg	SW8260D	8.22	10.0								
Benzene	< 2.00	µg/kg	SW8260D	0.338	2.00								
Bromochloromethane	< 2.00	µg/kg	SW8260D	0.239	2.00								
Bromodichloromethane	< 2.00	µg/kg	SW8260D	0.796	2.00								
Bromoform	< 2.00	µg/kg	SW8260D	0.289	2.00								
Bromomethane	< 5.00	µg/kg	SW8260D	2.61	5.00								
Carbon disulfide	< 2.00	µg/kg	SW8260D	0.247	2.00								
Carbon tetrachloride	< 2.00	µg/kg	SW8260D	0.419	2.00								
Chlorobenzene	< 2.00	µg/kg	SW8260D	0.535	2.00								



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**Contact:** Joe DeGooyer  
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**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB VOC-3 030521B	Date Analyzed:	03/05/2021 1822h											
<b>Test Code:</b> 8260D-S													
Chloroethane	< 2.00	µg/kg	SW8260D	1.19	2.00								
Chloroform	< 2.00	µg/kg	SW8260D	0.660	2.00								
Chloromethane	< 3.00	µg/kg	SW8260D	1.59	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/kg	SW8260D	0.329	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/kg	SW8260D	0.305	2.00								
Cyclohexane	< 2.00	µg/kg	SW8260D	0.800	2.00								
Dibromochloromethane	< 2.00	µg/kg	SW8260D	0.136	2.00								
Dichlorodifluoromethane	< 2.00	µg/kg	SW8260D	1.17	2.00								
Ethylbenzene	< 2.00	µg/kg	SW8260D	0.675	2.00								
Isopropylbenzene	< 2.00	µg/kg	SW8260D	1.75	2.00								
m,p-Xylene	< 2.00	µg/kg	SW8260D	0.811	2.00								
Methyl Acetate	< 5.00	µg/kg	SW8260D	2.20	5.00								
Methyl tert-butyl ether	< 2.00	µg/kg	SW8260D	0.210	2.00								
Methylcyclohexane	< 2.00	µg/kg	SW8260D	1.20	2.00								
Methylene chloride	< 5.00	µg/kg	SW8260D	2.38	5.00								
Naphthalene	< 2.00	µg/kg	SW8260D	1.03	2.00								
o-Xylene	< 2.00	µg/kg	SW8260D	0.696	2.00								
Styrene	< 2.00	µg/kg	SW8260D	0.739	2.00								
Tetrachloroethene	< 2.00	µg/kg	SW8260D	0.460	2.00								
Toluene	< 2.00	µg/kg	SW8260D	0.448	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/kg	SW8260D	0.261	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/kg	SW8260D	0.285	2.00								
Trichloroethene	< 2.00	µg/kg	SW8260D	0.356	2.00								
Trichlorofluoromethane	< 2.00	µg/kg	SW8260D	0.234	2.00								
Vinyl chloride	< 1.00	µg/kg	SW8260D	0.196	1.00								
Surr: 1,2-Dichloroethane-d4	54.6	µg/kg	SW8260D			50.00		109	70 - 145				
Surr: 4-Bromofluorobenzene	44.6	µg/kg	SW8260D			50.00		89.2	70 - 128				
Surr: Dibromofluoromethane	45.7	µg/kg	SW8260D			50.00		91.4	70 - 133				



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**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB VOC-3 030521B	Date Analyzed: 03/05/2021 1822h												
Test Code: 8260D-S													
Surr: Toluene-d8	45.0	µg/kg	SW8260D			50.00		90.1	70 - 123				



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## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103147-001AMS	Date Analyzed: 03/05/2021 1903h												
<b>Test Code:</b> 8260D-S													
1,1,1-Trichloroethane	28.4	µg/kg-dry	SW8260D	0.288	2.50	24.95	0	114	64 - 137				
1,1,2,2-Tetrachloroethane	24.6	µg/kg-dry	SW8260D	0.389	2.50	24.95	0	98.7	74 - 150				
1,1,2-Trichloro-1,2,2-trifluoroethane	27.9	µg/kg-dry	SW8260D	1.17	2.50	24.95	0	112	37 - 170				
1,1,2-Trichloroethane	23.7	µg/kg-dry	SW8260D	0.222	2.50	24.95	0	95.0	80 - 117				
1,1-Dichloroethane	22.6	µg/kg-dry	SW8260D	0.163	2.50	24.95	0	90.8	70 - 175				
1,1-Dichloroethene	23.5	µg/kg-dry	SW8260D	0.764	2.50	24.95	0	94.1	42 - 210				
1,2,3-Trichlorobenzene	17.7	µg/kg-dry	SW8260D	1.29	2.50	24.95	0	70.9	36 - 135				
1,2,4-Trichlorobenzene	17.5	µg/kg-dry	SW8260D	1.47	2.50	24.95	0	70.2	21 - 140				
1,2-Dibromo-3-chloropropane	19.0	µg/kg-dry	SW8260D	0.831	6.24	24.95	0	76.2	62 - 132				
1,2-Dibromoethane	21.9	µg/kg-dry	SW8260D	0.324	2.50	24.95	0	87.6	76 - 125				
1,2-Dichlorobenzene	21.3	µg/kg-dry	SW8260D	0.846	2.50	24.95	0	85.2	56 - 125				
1,2-Dichloroethane	27.5	µg/kg-dry	SW8260D	0.147	2.50	24.95	0	110	79 - 135				
1,2-Dichloropropane	25.2	µg/kg-dry	SW8260D	0.810	2.50	24.95	0	101	68 - 133				
1,3-Dichlorobenzene	22.3	µg/kg-dry	SW8260D	1.29	2.50	24.95	0	89.6	45 - 135				
1,4-Dichlorobenzene	22.5	µg/kg-dry	SW8260D	1.06	2.50	24.95	0	90.3	43 - 135				
1,4-Dioxane	170	µg/kg-dry	SW8260D	34.6	62.4	249.5	0	68.3	58 - 146				
2-Butanone	41.1	µg/kg-dry	SW8260D	3.77	12.5	24.95	0	165	56 - 184				
2-Hexanone	32.1	µg/kg-dry	SW8260D	2.57	6.24	24.95	0	129	61 - 192				
4-Methyl-2-pentanone	23.3	µg/kg-dry	SW8260D	2.18	6.24	24.95	0	93.4	58 - 145				
Acetone	38.7	µg/kg-dry	SW8260D	10.3	12.5	24.95	0	155	17 - 296				
Benzene	24.8	µg/kg-dry	SW8260D	0.422	2.50	24.95	0	99.2	70 - 140				
Bromochloromethane	21.8	µg/kg-dry	SW8260D	0.298	2.50	24.95	0	87.4	69 - 123				
Bromodichloromethane	27.4	µg/kg-dry	SW8260D	0.993	2.50	24.95	0	110	76 - 140				
Bromoform	25.1	µg/kg-dry	SW8260D	0.361	2.50	24.95	0	101	71 - 175				
Bromomethane	17.2	µg/kg-dry	SW8260D	3.26	6.24	24.95	0	68.8	10 - 168				
Carbon disulfide	21.6	µg/kg-dry	SW8260D	0.308	2.50	24.95	0	86.7	31 - 174				
Carbon tetrachloride	28.7	µg/kg-dry	SW8260D	0.523	2.50	24.95	0	115	58 - 145				
Chlorobenzene	23.5	µg/kg-dry	SW8260D	0.667	2.50	24.95	0	94.3	61 - 125				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 2103147-001AMS</b>		Date Analyzed: 03/05/2021 1903h											
Test Code: 8260D-S													
Chloroethane	17.2	µg/kg-dry	SW8260D	1.48	2.50	24.95	0	69.0	10 - 161				
Chloroform	25.2	µg/kg-dry	SW8260D	0.823	2.50	24.95	0	101	74 - 135				
Chloromethane	20.4	µg/kg-dry	SW8260D	1.98	3.74	24.95	0	81.7	30 - 149				
cis-1,2-Dichloroethene	21.1	µg/kg-dry	SW8260D	0.410	2.50	24.95	0	84.6	63 - 142				
cis-1,3-Dichloropropene	24.7	µg/kg-dry	SW8260D	0.381	2.50	24.95	0	99.0	67 - 127				
Cyclohexane	20.8	µg/kg-dry	SW8260D	0.998	2.50	24.95	0	83.5	44 - 162				
Dibromochloromethane	24.1	µg/kg-dry	SW8260D	0.170	2.50	24.95	0	96.5	76 - 121				
Dichlorodifluoromethane	17.0	µg/kg-dry	SW8260D	1.46	2.50	24.95	0	68.3	20 - 130				
Ethylbenzene	23.4	µg/kg-dry	SW8260D	0.842	2.50	24.95	0	93.8	52 - 140				
Isopropylbenzene	24.4	µg/kg-dry	SW8260D	2.18	2.50	24.95	0	97.8	50 - 140				
m,p-Xylene	49.9	µg/kg-dry	SW8260D	1.01	2.50	49.90	0	100	44 - 142				
Methyl Acetate	48.1	µg/kg-dry	SW8260D	2.74	6.24	24.95	0	193	70 - 240				
Methyl tert-butyl ether	20.4	µg/kg-dry	SW8260D	0.262	2.50	24.95	0	81.8	60 - 128				
Methylcyclohexane	26.0	µg/kg-dry	SW8260D	1.50	2.50	24.95	0	104	41 - 171				
Methylene chloride	19.6	µg/kg-dry	SW8260D	2.97	6.24	24.95	0	78.5	10 - 128				
Naphthalene	14.7	µg/kg-dry	SW8260D	1.29	2.50	24.95	0	58.8	43 - 135				
o-Xylene	22.3	µg/kg-dry	SW8260D	0.868	2.50	24.95	0	89.5	44 - 142				
Styrene	23.1	µg/kg-dry	SW8260D	0.922	2.50	24.95	0	92.8	56 - 140				
Tetrachloroethene	32.7	µg/kg-dry	SW8260D	0.574	2.50	24.95	0	131	40 - 200				
Toluene	23.9	µg/kg-dry	SW8260D	0.559	2.50	24.95	0	95.9	54 - 138				
trans-1,2-Dichloroethene	22.3	µg/kg-dry	SW8260D	0.326	2.50	24.95	0	89.3	57 - 175				
trans-1,3-Dichloropropene	25.1	µg/kg-dry	SW8260D	0.356	2.50	24.95	0	101	66 - 117				
Trichloroethene	26.9	µg/kg-dry	SW8260D	0.444	2.50	24.95	0	108	61 - 143				
Trichlorofluoromethane	25.9	µg/kg-dry	SW8260D	0.292	2.50	24.95	0	104	10 - 140				
Vinyl chloride	18.1	µg/kg-dry	SW8260D	0.245	1.25	24.95	0	72.6	47 - 135				
Surr: 1,2-Dichloroethane-d4	72.9	µg/kg-dry	SW8260D			62.38		117	70 - 145				
Surr: 4-Bromofluorobenzene	54.7	µg/kg-dry	SW8260D			62.38		87.6	70 - 128				
Surr: Dibromofluoromethane	59.0	µg/kg-dry	SW8260D			62.38		94.6	70 - 133				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103147-001AMS		Date Analyzed: 03/05/2021 1903h											
Test Code: 8260D-S													
Surr: Toluene-d8	59.1	µg/kg-dry	SW8260D			62.38		94.7	70 - 123				





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Kyle F. Gross  
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## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103147-001AMSD	Date Analyzed: 03/05/2021 1923h												
<b>Test Code:</b> 8260D-S													
1,1,1-Trichloroethane	28.7	µg/kg-dry	SW8260D	0.291	2.52	25.20	0	114	64 - 137	28.4	1.17	35	
1,1,2,2-Tetrachloroethane	24.7	µg/kg-dry	SW8260D	0.393	2.52	25.20	0	98.0	74 - 150	24.6	0.334	35	
1,1,2-Trichloro-1,2,2-trifluoroethane	27.4	µg/kg-dry	SW8260D	1.18	2.52	25.20	0	109	37 - 170	27.9	1.72	35	
1,1,2-Trichloroethane	25.5	µg/kg-dry	SW8260D	0.224	2.52	25.20	0	101	80 - 117	23.7	7.17	35	
1,1-Dichloroethane	23.4	µg/kg-dry	SW8260D	0.165	2.52	25.20	0	93.0	70 - 175	22.6	3.44	35	
1,1-Dichloroethene	24.0	µg/kg-dry	SW8260D	0.771	2.52	25.20	0	95.4	42 - 210	23.5	2.37	35	
1,2,3-Trichlorobenzene	18.6	µg/kg-dry	SW8260D	1.30	2.52	25.20	0	73.9	36 - 135	17.7	5.21	35	
1,2,4-Trichlorobenzene	17.8	µg/kg-dry	SW8260D	1.49	2.52	25.20	0	70.6	21 - 140	17.5	1.56	35	
1,2-Dibromo-3-chloropropane	19.6	µg/kg-dry	SW8260D	0.839	6.30	25.20	0	77.7	62 - 132	19	3.01	35	
1,2-Dibromoethane	23.2	µg/kg-dry	SW8260D	0.328	2.52	25.20	0	92.2	76 - 125	21.9	6.06	35	
1,2-Dichlorobenzene	21.9	µg/kg-dry	SW8260D	0.854	2.52	25.20	0	86.9	56 - 125	21.3	2.85	35	
1,2-Dichloroethane	29.0	µg/kg-dry	SW8260D	0.149	2.52	25.20	0	115	79 - 135	27.5	5.12	35	
1,2-Dichloropropane	26.3	µg/kg-dry	SW8260D	0.818	2.52	25.20	0	104	68 - 133	25.2	4.06	35	
1,3-Dichlorobenzene	23.0	µg/kg-dry	SW8260D	1.30	2.52	25.20	0	91.4	45 - 135	22.3	3.04	35	
1,4-Dichlorobenzene	22.8	µg/kg-dry	SW8260D	1.07	2.52	25.20	0	90.6	43 - 135	22.5	1.33	35	
1,4-Dioxane	163	µg/kg-dry	SW8260D	34.9	63.0	252.0	0	64.6	58 - 146	170	4.47	35	
2-Butanone	23.8	µg/kg-dry	SW8260D	3.81	12.6	25.20	0	94.6	56 - 184	41.1	53.2	35	@
2-Hexanone	32.1	µg/kg-dry	SW8260D	2.60	6.30	25.20	0	127	61 - 192	32.1	0.0586	35	
4-Methyl-2-pentanone	23.8	µg/kg-dry	SW8260D	2.21	6.30	25.20	0	94.3	58 - 145	23.3	1.95	35	
Acetone	40.4	µg/kg-dry	SW8260D	10.4	12.6	25.20	0	160	17 - 296	38.7	4.39	35	
Benzene	25.7	µg/kg-dry	SW8260D	0.426	2.52	25.20	0	102	70 - 140	24.8	3.87	35	
Bromochloromethane	23.5	µg/kg-dry	SW8260D	0.301	2.52	25.20	0	93.2	69 - 123	21.8	7.47	35	
Bromodichloromethane	28.8	µg/kg-dry	SW8260D	1.00	2.52	25.20	0	114	76 - 140	27.4	4.92	35	
Bromoform	25.4	µg/kg-dry	SW8260D	0.364	2.52	25.20	0	101	71 - 175	25.1	1.29	35	
Bromomethane	18.1	µg/kg-dry	SW8260D	3.29	6.30	25.20	0	71.8	10 - 168	17.2	5.19	35	
Carbon disulfide	22.2	µg/kg-dry	SW8260D	0.311	2.52	25.20	0	88.1	31 - 174	21.6	2.60	35	
Carbon tetrachloride	29.5	µg/kg-dry	SW8260D	0.528	2.52	25.20	0	117	58 - 145	28.7	2.67	35	
Chlorobenzene	24.1	µg/kg-dry	SW8260D	0.674	2.52	25.20	0	95.8	61 - 125	23.5	2.63	35	



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103147-001AMSD	Date Analyzed: 03/05/2021 1923h												
<b>Test Code:</b> 8260D-S													
Chloroethane	17.9	µg/kg-dry	SW8260D	1.50	2.52	25.20	0	71.0	10 - 161	17.2	3.92	35	
Chloroform	25.4	µg/kg-dry	SW8260D	0.832	2.52	25.20	0	101	74 - 135	25.2	0.499	35	
Chloromethane	20.3	µg/kg-dry	SW8260D	2.00	3.78	25.20	0	80.6	30 - 149	20.4	0.298	35	
cis-1,2-Dichloroethene	22.4	µg/kg-dry	SW8260D	0.415	2.52	25.20	0	88.9	63 - 142	21.1	5.89	35	
cis-1,3-Dichloropropene	25.9	µg/kg-dry	SW8260D	0.384	2.52	25.20	0	103	67 - 127	24.7	4.62	35	
Cyclohexane	21.5	µg/kg-dry	SW8260D	1.01	2.52	25.20	0	85.4	44 - 162	20.8	3.24	35	
Dibromochloromethane	24.5	µg/kg-dry	SW8260D	0.171	2.52	25.20	0	97.4	76 - 121	24.1	1.92	35	
Dichlorodifluoromethane	17.4	µg/kg-dry	SW8260D	1.47	2.52	25.20	0	68.9	20 - 130	17	1.87	35	
Ethylbenzene	23.5	µg/kg-dry	SW8260D	0.851	2.52	25.20	0	93.1	52 - 140	23.4	0.299	35	
Isopropylbenzene	23.7	µg/kg-dry	SW8260D	2.21	2.52	25.20	0	93.8	50 - 140	24.4	3.08	35	
m,p-Xylene	49.8	µg/kg-dry	SW8260D	1.02	2.52	50.40	0	98.9	44 - 142	49.9	0.212	35	
Methyl Acetate	48.6	µg/kg-dry	SW8260D	2.77	6.30	25.20	0	193	70 - 240	48.1	1.15	35	
Methyl tert-butyl ether	22.3	µg/kg-dry	SW8260D	0.265	2.52	25.20	0	88.4	60 - 128	20.4	8.81	35	
Methylcyclohexane	26.1	µg/kg-dry	SW8260D	1.51	2.52	25.20	0	104	41 - 171	26	0.610	35	
Methylene chloride	20.5	µg/kg-dry	SW8260D	3.00	6.30	25.20	0	81.4	10 - 128	19.6	4.56	35	
Naphthalene	15.5	µg/kg-dry	SW8260D	1.30	2.52	25.20	0	61.6	43 - 135	14.7	5.65	35	
o-Xylene	22.3	µg/kg-dry	SW8260D	0.877	2.52	25.20	0	88.4	44 - 142	22.3	0.185	35	
Styrene	23.7	µg/kg-dry	SW8260D	0.931	2.52	25.20	0	94.2	56 - 140	23.1	2.49	35	
Tetrachloroethene	32.2	µg/kg-dry	SW8260D	0.580	2.52	25.20	0	128	40 - 200	32.7	1.55	35	
Toluene	24.2	µg/kg-dry	SW8260D	0.565	2.52	25.20	0	96.0	54 - 138	23.9	1.10	35	
trans-1,2-Dichloroethene	22.3	µg/kg-dry	SW8260D	0.329	2.52	25.20	0	88.4	57 - 175	22.3	0.0745	35	
trans-1,3-Dichloropropene	26.5	µg/kg-dry	SW8260D	0.359	2.52	25.20	0	105	66 - 117	25.1	5.46	35	
Trichloroethene	28.0	µg/kg-dry	SW8260D	0.449	2.52	25.20	0	111	61 - 143	26.9	4.01	35	
Trichlorofluoromethane	26.0	µg/kg-dry	SW8260D	0.295	2.52	25.20	0	103	10 - 140	25.9	0.125	35	
Vinyl chloride	17.8	µg/kg-dry	SW8260D	0.247	1.26	25.20	0	70.7	47 - 135	18.1	1.59	35	
Surr: 1,2-Dichloroethane-d4	74.2	µg/kg-dry	SW8260D			63.01		118	70 - 145				
Surr: 4-Bromofluorobenzene	55.7	µg/kg-dry	SW8260D			63.01		88.4	70 - 128				
Surr: Dibromofluoromethane	60.8	µg/kg-dry	SW8260D			63.01		96.6	70 - 133				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103147  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 2103147-001AMSD</b>													
Date Analyzed: 03/05/2021 1923h													
Test Code: 8260D-S													
Surr: Toluene-d8	58.4	µg/kg-dry	SW8260D			63.01		92.7	70 - 123				

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

## WORK ORDER Summary

Work Order: **2103147**

Page 1 of 1

**Client:** Applied Geotechnical

Due Date: 3/11/2021

**Client ID:** APP100

**Contact:** Joe DeGooyer

**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**QC Level:** II+

WO Type: Standard

**Comments:** 5 Day Rush; QC 2+;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
2103147-001A	MW-16 @ 6'-7'	3/4/2021 0935h	3/4/2021 1558h	8260D-S	Aqueous	VOCFridge/pmoist	2
				<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>			
				PMOIST		VOCFridge/pmoist	
2103147-002A	MW-17 @ 6.5'-7.5'	3/4/2021 1020h	3/4/2021 1558h	8260D-S	Aqueous	VOCFridge/pmoist	2
				<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>			
				PMOIST		VOCFridge/pmoist	
2103147-003A	MW-18 @ 5'-6'	3/4/2021 1055h	3/4/2021 1558h	8260D-S	Aqueous	VOCFridge/pmoist	2
				<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>			
				PMOIST		VOCFridge/pmoist	
2103147-004A	MW-19 @ 6'-7'	3/4/2021 1130h	3/4/2021 1558h	8260D-S	Aqueous	VOCFridge/pmoist	2
				<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>			
				PMOIST		VOCFridge/pmoist	
2103147-005A	MW-20 @ 8'-9'	3/4/2021 1215h	3/4/2021 1558h	8260D-S	Aqueous	VOCFridge/pmoist	2
				<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>			
				PMOIST		VOCFridge/pmoist	
2103147-006A	MW-20 @ 10'-11'	3/4/2021 1220h	3/4/2021 1558h	8260D-S	Aqueous	VOCFridge/pmoist	2
				<i>Test Group: 8260D-S-AWAL; # of Analytes: 53 / # of Surr: 4</i>			
				PMOIST		VOCFridge/pmoist	





Joe DeGooyer  
Applied Geotechnical  
600 West Sandy Parkway  
Sandy, UT 84070  
TEL: (801) 566-6399

RE: Forsey's Cleaners MW's 16-20 / 1210149

Dear Joe DeGooyer:

Lab Set ID: 2103307

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 3/10/2021 for the analyses presented in the following report.

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American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: \_\_\_\_\_  
Laboratory Director or designee



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103307-001A  
**Client Sample ID:** MW-16  
**Collection Date:** 3/10/2021 1225h  
**Received Date:** 3/10/2021 1705h Test Code: 8260D-W

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

**Analyzed:** 3/11/2021 1034h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	#
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	L



**Lab Sample ID:** 2103307-001A

**Client Sample ID:** MW-16

**Analyzed:** 3/11/2021 1034h

**Extracted:**

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	#
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	#
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	#
Vinyl chloride	75-01-4	1.00	< 1.00	#

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	60.0	50.00	120	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	44.7	50.00	89.5	85-121	
Surr: Dibromofluoromethane		1868-53-7	57.4	50.00	115	78-132	
Surr: Toluene-d8		2037-26-5	49.8	50.00	99.5	81-123	

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*

*# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.*





# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103307-002A  
**Client Sample ID:** MW-17  
**Collection Date:** 3/10/2021 1300h  
**Received Date:** 3/10/2021 1705h Test Code: 8260D-W

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

**Analyzed:** 3/12/2021 1032h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 10 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Tetrachloroethene	127-18-4	20.0	<b>388</b>	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	592	500.0	118	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	450	500.0	89.9	85-121	
Surr: Dibromofluoromethane		1868-53-7	587	500.0	117	78-132	
Surr: Toluene-d8		2037-26-5	499	500.0	99.9	81-123	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 3/11/2021 1322h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	#
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



Lab Sample ID: 2103307-002A

Client Sample ID: MW-17

Analyzed: 3/11/2021 1322h

Extracted:

Units: µg/L

Dilution Factor: 1

Method: SW8260D

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Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	L
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	#
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	#
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	<b>10.2</b>	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	#
Vinyl chloride	75-01-4	1.00	< 1.00	#



**Lab Sample ID:** 2103307-002A

**Client Sample ID:** MW-17

**Analyzed:** 3/11/2021 1322h

**Extracted:**

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260D

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	59.6	50.00	119	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	44.7	50.00	89.4	85-121	
Surr: Dibromofluoromethane		1868-53-7	57.4	50.00	115	78-132	
Surr: Toluene-d8		2037-26-5	48.8	50.00	97.5	81-123	

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*

*# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.*

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103307-003A  
**Client Sample ID:** MW-17 Duplicate  
**Collection Date:** 3/10/2021 1310h  
**Received Date:** 3/10/2021 1705h Test Code: 8260D-W

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

**Analyzed:** 3/12/2021 1052h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 10 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Tetrachloroethene	127-18-4	20.0	417	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	602	500.0	120	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	466	500.0	93.2	85-121	
Surr: Dibromofluoromethane		1868-53-7	586	500.0	117	78-132	
Surr: Toluene-d8		2037-26-5	492	500.0	98.5	81-123	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 3/11/2021 1342h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	#
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	

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Laboratory Director

Jose Rocha  
QA Officer



**Lab Sample ID:** 2103307-003A  
**Client Sample ID:** MW-17 Duplicate

**Analyzed:** 3/11/2021 1342h      **Extracted:**  
**Units:** µg/L      **Dilution Factor:** 1      **Method:** SW8260D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	L
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	#
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	#
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	<b>11.4</b>	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	#
Vinyl chloride	75-01-4	1.00	< 1.00	#



**Lab Sample ID:** 2103307-003A

**Client Sample ID:** MW-17 Duplicate

**Analyzed:** 3/11/2021 1342h

**Extracted:**

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260D

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	60.4	50.00	121	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	46.3	50.00	92.7	85-121	
Surr: Dibromofluoromethane		1868-53-7	58.7	50.00	117	78-132	
Surr: Toluene-d8		2037-26-5	48.3	50.00	96.5	81-123	

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*

*# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.*

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Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103307-004A  
**Client Sample ID:** MW-18  
**Collection Date:** 3/10/2021 1336h  
**Received Date:** 3/10/2021 1705h Test Code: 8260D-W

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

**Analyzed:** 3/11/2021 1401h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	#
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	L



**Lab Sample ID:** 2103307-004A

**Client Sample ID:** MW-18

**Analyzed:** 3/11/2021 1401h

**Extracted:**

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260D

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Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	#
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	#
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	#
Vinyl chloride	75-01-4	1.00	< 1.00	#

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	61.9	50.00	124	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	46.9	50.00	93.8	85-121	
Surr: Dibromofluoromethane		1868-53-7	58.8	50.00	118	78-132	
Surr: Toluene-d8		2037-26-5	51.0	50.00	102	81-123	

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*

*# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.*





# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103307-005A  
**Client Sample ID:** MW-19  
**Collection Date:** 3/10/2021 1410h  
**Received Date:** 3/10/2021 1705h Test Code: 8260D-W

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

**Analyzed:** 3/11/2021 1421h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260D

3440 South 700 West  
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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	#
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	L



**Lab Sample ID:** 2103307-005A

**Client Sample ID:** MW-19

**Analyzed:** 3/11/2021 1421h

**Extracted:**

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	#
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	#
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	#
Vinyl chloride	75-01-4	1.00	< 1.00	#

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	60.7	50.00	121	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	44.5	50.00	89.1	85-121	
Surr: Dibromofluoromethane		1868-53-7	58.3	50.00	117	78-132	
Surr: Toluene-d8		2037-26-5	50.4	50.00	101	81-123	

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*

*# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.*



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103307-006A  
**Client Sample ID:** MW-20  
**Collection Date:** 3/10/2021 1500h  
**Received Date:** 3/10/2021 1705h Test Code: 8260D-W

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

**Analyzed:** 3/11/2021 1441h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260D

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	#
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	L



**Lab Sample ID:** 2103307-006A

**Client Sample ID:** MW-20

**Analyzed:** 3/11/2021 1441h

**Extracted:**

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	#
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	#
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	#
Vinyl chloride	75-01-4	1.00	< 1.00	#

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	61.3	50.00	123	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	44.3	50.00	88.5	85-121	
Surr: Dibromofluoromethane		1868-53-7	59.3	50.00	119	78-132	
Surr: Toluene-d8		2037-26-5	50.8	50.00	102	81-123	

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*

*# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.*



# ORGANIC ANALYTICAL REPORT

**Client:** Applied Geotechnical **Contact:** Joe DeGooyer  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149  
**Lab Sample ID:** 2103307-007A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 3/10/2021  
**Received Date:** 3/10/2021 1705h Test Code: 8260D-W

## Analytical Results

VOAs AWAL List by GC/MS Method 8260D/5030C

**Analyzed:** 3/11/2021 1500h **Extracted:**  
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260D

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	#
2-Butanone	78-93-3	10.0	< 10.0	
2-Hexanone	591-78-6	5.00	< 5.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Benzene	71-43-2	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Carbon disulfide	75-15-0	2.00	< 2.00	#
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	L



**Lab Sample ID:** 2103307-007A

**Client Sample ID:** Trip Blank

**Analyzed:** 3/11/2021 1500h

**Extracted:**

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260D

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Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloromethane	74-87-3	3.00	< 3.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	#
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	#
Ethylbenzene	100-41-4	2.00	< 2.00	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	#
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	#
Methylene chloride	75-09-2	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	#
Vinyl chloride	75-01-4	1.00	< 1.00	#

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	61.8	50.00	124	80-136	
Surr: 4-Bromofluorobenzene		460-00-4	46.4	50.00	92.8	85-121	
Surr: Dibromofluoromethane		1868-53-7	59.1	50.00	118	78-132	
Surr: Toluene-d8		2037-26-5	51.8	50.00	104	81-123	

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*

*# - This compound exceeded (high) the control limit for the CCV. The data is acceptable since the compound was not detected in the sample.*



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsy's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-1 031121A	Date Analyzed:	03/11/2021 955h											
<b>Test Code:</b> 8260D-W													
1,1,1-Trichloroethane	25.5	µg/L	SW8260D	0.326	2.00	20.00	0	127	72 - 132				
1,1,2,2-Tetrachloroethane	24.8	µg/L	SW8260D	0.164	2.00	20.00	0	124	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	27.7	µg/L	SW8260D	1.59	2.00	20.00	0	138	54 - 174				
1,1,2-Trichloroethane	24.1	µg/L	SW8260D	0.143	2.00	20.00	0	120	88 - 126				
1,1-Dichloroethane	26.6	µg/L	SW8260D	1.15	2.00	20.00	0	133	78 - 142				
1,1-Dichloroethene	26.1	µg/L	SW8260D	0.782	2.00	20.00	0	131	37 - 144				
1,2,3-Trichlorobenzene	22.3	µg/L	SW8260D	1.08	2.00	20.00	0	112	60 - 136				
1,2,4-Trichlorobenzene	17.5	µg/L	SW8260D	1.30	2.00	20.00	0	87.4	45 - 138				
1,2-Dibromo-3-chloropropane	21.3	µg/L	SW8260D	0.295	5.00	20.00	0	106	71 - 129				
1,2-Dibromoethane	22.7	µg/L	SW8260D	0.232	2.00	20.00	0	114	77 - 124				
1,2-Dichlorobenzene	21.8	µg/L	SW8260D	0.155	2.00	20.00	0	109	70 - 130				
1,2-Dichloroethane	25.1	µg/L	SW8260D	0.144	2.00	20.00	0	126	76 - 132				
1,2-Dichloropropane	24.0	µg/L	SW8260D	0.262	2.00	20.00	0	120	81 - 135				
1,3-Dichlorobenzene	22.4	µg/L	SW8260D	0.191	2.00	20.00	0	112	71 - 139				
1,4-Dichlorobenzene	22.1	µg/L	SW8260D	0.229	2.00	20.00	0	111	67 - 138				
1,4-Dioxane	293	µg/L	SW8260D	21.5	50.0	200.0	0	147	42 - 171				
2-Butanone	34.8	µg/L	SW8260D	1.22	10.0	20.00	0	174	69 - 236				
2-Hexanone	20.6	µg/L	SW8260D	1.51	5.00	20.00	0	103	51 - 167				
4-Methyl-2-pentanone	23.1	µg/L	SW8260D	0.296	5.00	20.00	0	116	68 - 128				
Acetone	36.0	µg/L	SW8260D	2.76	10.0	20.00	0	180	36 - 198				
Benzene	24.5	µg/L	SW8260D	0.147	2.00	20.00	0	123	78 - 125				
Bromochloromethane	23.6	µg/L	SW8260D	0.592	2.00	20.00	0	118	80 - 130				
Bromodichloromethane	24.1	µg/L	SW8260D	0.138	2.00	20.00	0	120	85 - 123				
Bromoform	22.5	µg/L	SW8260D	0.151	2.00	20.00	0	113	65 - 122				
Bromomethane	20.8	µg/L	SW8260D	3.03	5.00	20.00	0	104	10 - 168				
Carbon disulfide	28.0	µg/L	SW8260D	0.800	2.00	20.00	0	140	34 - 178				
Carbon tetrachloride	25.4	µg/L	SW8260D	0.785	2.00	20.00	0	127	66 - 143				
Chlorobenzene	23.7	µg/L	SW8260D	0.154	2.00	20.00	0	118	74 - 126				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-1 031121A	Date Analyzed:	03/11/2021 955h											
<b>Test Code:</b> 8260D-W													
Chloroethane	21.9	µg/L	SW8260D	1.37	2.00	20.00	0	110	45 - 154				
Chloroform	24.8	µg/L	SW8260D	0.360	2.00	20.00	0	124	74 - 120				L
Chloromethane	17.2	µg/L	SW8260D	0.682	3.00	20.00	0	85.9	30 - 149				
cis-1,2-Dichloroethene	24.4	µg/L	SW8260D	0.188	2.00	20.00	0	122	70 - 132				
cis-1,3-Dichloropropene	24.6	µg/L	SW8260D	0.792	2.00	20.00	0	123	84 - 123				
Cyclohexane	23.9	µg/L	SW8260D	0.812	2.00	20.00	0	120	43 - 181				
Dibromochloromethane	22.5	µg/L	SW8260D	0.132	2.00	20.00	0	113	75 - 123				
Dichlorodifluoromethane	14.6	µg/L	SW8260D	0.422	2.00	20.00	0	72.9	10 - 165				
Ethylbenzene	23.1	µg/L	SW8260D	0.164	2.00	20.00	0	116	67 - 130				
Isopropylbenzene	20.6	µg/L	SW8260D	0.671	2.00	20.00	0	103	68 - 147				
m,p-Xylene	49.3	µg/L	SW8260D	0.556	2.00	40.00	0	123	69 - 142				
Methyl acetate	53.4	µg/L	SW8260D	1.27	5.00	20.00	0	267	87 - 300				
Methyl tert-butyl ether	24.2	µg/L	SW8260D	1.26	2.00	20.00	0	121	58 - 135				
Methylcyclohexane	25.3	µg/L	SW8260D	0.528	2.00	20.00	0	126	55 - 151				
Methylene chloride	25.7	µg/L	SW8260D	0.451	2.00	20.00	0	128	65 - 154				
Naphthalene	17.6	µg/L	SW8260D	0.730	2.00	20.00	0	87.8	55 - 128				
o-Xylene	22.0	µg/L	SW8260D	0.153	2.00	20.00	0	110	70 - 142				
Styrene	20.4	µg/L	SW8260D	0.570	2.00	20.00	0	102	71 - 135				
Tetrachloroethene	24.5	µg/L	SW8260D	0.458	2.00	20.00	0	123	58 - 149				
Toluene	22.9	µg/L	SW8260D	0.277	2.00	20.00	0	115	69 - 129				
trans-1,2-Dichloroethene	25.4	µg/L	SW8260D	0.282	2.00	20.00	0	127	70 - 134				
trans-1,3-Dichloropropene	24.1	µg/L	SW8260D	0.772	2.00	20.00	0	121	63 - 132				
Trichloroethene	25.0	µg/L	SW8260D	0.180	2.00	20.00	0	125	72 - 136				
Trichlorofluoromethane	21.4	µg/L	SW8260D	0.375	2.00	20.00	0	107	59 - 152				
Vinyl chloride	18.9	µg/L	SW8260D	0.205	1.00	20.00	0	94.6	43 - 152				
Surr: 1,2-Dichloroethane-d4	55.5	µg/L	SW8260D			50.00		111	80 - 136				
Surr: 4-Bromofluorobenzene	45.2	µg/L	SW8260D			50.00		90.4	85 - 121				
Surr: Dibromofluoromethane	54.0	µg/L	SW8260D			50.00		108	78 - 132				





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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: LCS VOC-1 031121A</b> Date Analyzed: 03/11/2021 955h													
Test Code: 8260D-W													
Surr: Toluene-d8	50.5	µg/L	SW8260D			50.00		101	81 - 123				
<b>Lab Sample ID: LCS VOC-1 031221A</b> Date Analyzed: 03/12/2021 637h													
Test Code: 8260D-W													
Tetrachloroethene	23.8	µg/L	SW8260D	0.458	2.00	20.00	0	119	58 - 149				
Surr: 1,2-Dichloroethane-d4	57.5	µg/L	SW8260D			50.00		115	80 - 136				
Surr: 4-Bromofluorobenzene	45.4	µg/L	SW8260D			50.00		90.7	85 - 121				
Surr: Dibromofluoromethane	56.3	µg/L	SW8260D			50.00		113	78 - 132				
Surr: Toluene-d8	49.7	µg/L	SW8260D			50.00		99.4	81 - 123				

*L - High LCS recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*



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## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB VOC-1 031121A	Date Analyzed:	03/11/2021 1015h											
<b>Test Code:</b> 8260D-W													
1,1,1-Trichloroethane	< 2.00	µg/L	SW8260D	0.326	2.00								
1,1,2,2-Tetrachloroethane	< 2.00	µg/L	SW8260D	0.164	2.00								
1,1,2-Trichloro-1,2,2-trifluoroethane	< 2.00	µg/L	SW8260D	1.59	2.00								
1,1,2-Trichloroethane	< 2.00	µg/L	SW8260D	0.143	2.00								
1,1-Dichloroethane	< 2.00	µg/L	SW8260D	1.15	2.00								
1,1-Dichloroethene	< 2.00	µg/L	SW8260D	0.782	2.00								
1,2,3-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.08	2.00								
1,2,4-Trichlorobenzene	< 2.00	µg/L	SW8260D	1.30	2.00								
1,2-Dibromo-3-chloropropane	< 5.00	µg/L	SW8260D	0.295	5.00								
1,2-Dibromoethane	< 2.00	µg/L	SW8260D	0.232	2.00								
1,2-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.155	2.00								
1,2-Dichloroethane	< 2.00	µg/L	SW8260D	0.144	2.00								
1,2-Dichloropropane	< 2.00	µg/L	SW8260D	0.262	2.00								
1,3-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.191	2.00								
1,4-Dichlorobenzene	< 2.00	µg/L	SW8260D	0.229	2.00								
1,4-Dioxane	< 50.0	µg/L	SW8260D	21.5	50.0								
2-Butanone	< 10.0	µg/L	SW8260D	1.22	10.0								
2-Hexanone	< 5.00	µg/L	SW8260D	1.51	5.00								
4-Methyl-2-pentanone	< 5.00	µg/L	SW8260D	0.296	5.00								
Acetone	< 10.0	µg/L	SW8260D	2.76	10.0								
Benzene	< 2.00	µg/L	SW8260D	0.147	2.00								
Bromochloromethane	< 2.00	µg/L	SW8260D	0.592	2.00								
Bromodichloromethane	< 2.00	µg/L	SW8260D	0.138	2.00								
Bromoform	< 2.00	µg/L	SW8260D	0.151	2.00								
Bromomethane	< 5.00	µg/L	SW8260D	3.03	5.00								
Carbon disulfide	< 2.00	µg/L	SW8260D	0.800	2.00								
Carbon tetrachloride	< 2.00	µg/L	SW8260D	0.785	2.00								
Chlorobenzene	< 2.00	µg/L	SW8260D	0.154	2.00								



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**Contact:** Joe DeGooyer  
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**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB VOC-1 031121A	Date Analyzed:	03/11/2021	1015h										
Test Code:	8260D-W												
Chloroethane	< 2.00	µg/L	SW8260D	1.37	2.00								
Chloroform	< 2.00	µg/L	SW8260D	0.360	2.00								
Chloromethane	< 3.00	µg/L	SW8260D	0.682	3.00								
cis-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.188	2.00								
cis-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.792	2.00								
Cyclohexane	< 2.00	µg/L	SW8260D	0.812	2.00								
Dibromochloromethane	< 2.00	µg/L	SW8260D	0.132	2.00								
Dichlorodifluoromethane	< 2.00	µg/L	SW8260D	0.422	2.00								
Ethylbenzene	< 2.00	µg/L	SW8260D	0.164	2.00								
Isopropylbenzene	< 2.00	µg/L	SW8260D	0.671	2.00								
m,p-Xylene	< 2.00	µg/L	SW8260D	0.556	2.00								
Methyl Acetate	< 5.00	µg/L	SW8260D	1.27	5.00								
Methyl tert-butyl ether	< 2.00	µg/L	SW8260D	1.26	2.00								
Methylcyclohexane	< 2.00	µg/L	SW8260D	0.528	2.00								
Methylene chloride	< 2.00	µg/L	SW8260D	0.451	2.00								
Naphthalene	< 2.00	µg/L	SW8260D	0.730	2.00								
o-Xylene	< 2.00	µg/L	SW8260D	0.153	2.00								
Styrene	< 2.00	µg/L	SW8260D	0.570	2.00								
Tetrachloroethene	< 2.00	µg/L	SW8260D	0.458	2.00								
Toluene	< 2.00	µg/L	SW8260D	0.277	2.00								
trans-1,2-Dichloroethene	< 2.00	µg/L	SW8260D	0.282	2.00								
trans-1,3-Dichloropropene	< 2.00	µg/L	SW8260D	0.772	2.00								
Trichloroethene	< 2.00	µg/L	SW8260D	0.180	2.00								
Trichlorofluoromethane	< 2.00	µg/L	SW8260D	0.375	2.00								
Vinyl chloride	< 1.00	µg/L	SW8260D	0.205	1.00								
Surr: 1,2-Dichloroethane-d4	58.8	µg/L	SW8260D			50.00		118	80 - 136				
Surr: 4-Bromofluorobenzene	47.2	µg/L	SW8260D			50.00		94.3	85 - 121				
Surr: Dibromofluoromethane	56.9	µg/L	SW8260D			50.00		114	78 - 121				



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## QC SUMMARY REPORT

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**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB VOC-1 031121A</b> Date Analyzed: 03/11/2021 1015h													
Test Code: 8260D-W													
Surr: Toluene-d8	50.3	µg/L	SW8260D			50.00		101	81 - 123				
<b>Lab Sample ID: MB VOC-1 031221A</b> Date Analyzed: 03/12/2021 656h													
Test Code: 8260D-W													
Tetrachloroethene	< 2.00	µg/L	SW8260D	0.458	2.00								
Surr: 1,2-Dichloroethane-d4	57.9	µg/L	SW8260D			50.00		116	80 - 136				
Surr: 4-Bromofluorobenzene	44.5	µg/L	SW8260D			50.00		89.0	85 - 121				
Surr: Dibromofluoromethane	57.2	µg/L	SW8260D			50.00		114	78 - 121				
Surr: Toluene-d8	50.0	µg/L	SW8260D			50.00		100	81 - 123				



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## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 2103307-001AMS</b>		Date Analyzed: 03/11/2021 1203h											
Test Code: 8260D-W													
1,1,1-Trichloroethane	25.0	µg/L	SW8260D	0.326	2.00	20.00	0	125	72 - 132				
1,1,2,2-Tetrachloroethane	22.9	µg/L	SW8260D	0.164	2.00	20.00	0	114	68 - 140				
1,1,2-Trichloro-1,2,2-trifluoroethane	26.9	µg/L	SW8260D	1.59	2.00	20.00	0	135	54 - 174				
1,1,2-Trichloroethane	21.8	µg/L	SW8260D	0.143	2.00	20.00	0	109	88 - 126				
1,1-Dichloroethane	26.0	µg/L	SW8260D	1.15	2.00	20.00	0	130	78 - 142				
1,1-Dichloroethene	25.2	µg/L	SW8260D	0.782	2.00	20.00	0	126	37 - 144				
1,2,3-Trichlorobenzene	19.1	µg/L	SW8260D	1.08	2.00	20.00	0	95.6	60 - 136				
1,2,4-Trichlorobenzene	14.9	µg/L	SW8260D	1.30	2.00	20.00	0	74.4	45 - 138				
1,2-Dibromo-3-chloropropane	18.7	µg/L	SW8260D	0.295	5.00	20.00	0	93.4	71 - 129				
1,2-Dibromoethane	20.5	µg/L	SW8260D	0.232	2.00	20.00	0	102	77 - 124				
1,2-Dichlorobenzene	20.1	µg/L	SW8260D	0.155	2.00	20.00	0	100	70 - 130				
1,2-Dichloroethane	23.7	µg/L	SW8260D	0.144	2.00	20.00	0	118	76 - 132				
1,2-Dichloropropane	22.5	µg/L	SW8260D	0.262	2.00	20.00	0	112	81 - 135				
1,3-Dichlorobenzene	20.0	µg/L	SW8260D	0.191	2.00	20.00	0	100	71 - 139				
1,4-Dichlorobenzene	20.5	µg/L	SW8260D	0.229	2.00	20.00	0	103	67 - 138				
1,4-Dioxane	219	µg/L	SW8260D	21.5	50.0	200.0	0	109	42 - 171				
2-Butanone	30.1	µg/L	SW8260D	1.22	10.0	20.00	0	150	69 - 236				
2-Hexanone	17.5	µg/L	SW8260D	1.51	5.00	20.00	0	87.6	51 - 167				
4-Methyl-2-pentanone	21.8	µg/L	SW8260D	0.296	5.00	20.00	0	109	68 - 128				
Acetone	29.0	µg/L	SW8260D	2.76	10.0	20.00	0	145	36 - 198				
Benzene	22.9	µg/L	SW8260D	0.147	2.00	20.00	0	115	78 - 125				
Bromochloromethane	22.6	µg/L	SW8260D	0.592	2.00	20.00	0	113	80 - 130				
Bromodichloromethane	23.0	µg/L	SW8260D	0.138	2.00	20.00	0	115	85 - 123				
Bromoform	20.4	µg/L	SW8260D	0.151	2.00	20.00	0	102	65 - 122				
Bromomethane	17.4	µg/L	SW8260D	3.03	5.00	20.00	0	87.0	10 - 168				
Carbon disulfide	29.4	µg/L	SW8260D	0.800	2.00	20.00	0	147	34 - 178				
Carbon tetrachloride	25.1	µg/L	SW8260D	0.785	2.00	20.00	0	125	66 - 143				
Chlorobenzene	21.9	µg/L	SW8260D	0.154	2.00	20.00	0	109	74 - 126				



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103307-001AMS	Date Analyzed: 03/11/2021 1203h												
<b>Test Code:</b> 8260D-W													
Chloroethane	20.9	µg/L	SW8260D	1.37	2.00	20.00	0	104	45 - 154				
Chloroform	24.6	µg/L	SW8260D	0.360	2.00	20.00	0	123	74 - 120				L
Chloromethane	16.0	µg/L	SW8260D	0.682	3.00	20.00	0	80.2	30 - 149				
cis-1,2-Dichloroethene	22.9	µg/L	SW8260D	0.188	2.00	20.00	0	114	70 - 132				
cis-1,3-Dichloropropene	20.4	µg/L	SW8260D	0.792	2.00	20.00	0	102	84 - 123				
Cyclohexane	21.7	µg/L	SW8260D	0.812	2.00	20.00	0	108	43 - 181				
Dibromochloromethane	20.5	µg/L	SW8260D	0.132	2.00	20.00	0	103	75 - 123				
Dichlorodifluoromethane	14.4	µg/L	SW8260D	0.422	2.00	20.00	0	72.0	10 - 165				
Ethylbenzene	20.9	µg/L	SW8260D	0.164	2.00	20.00	0	105	67 - 130				
Isopropylbenzene	18.2	µg/L	SW8260D	0.671	2.00	20.00	0	91.2	68 - 147				
m,p-Xylene	44.8	µg/L	SW8260D	0.556	2.00	40.00	0	112	69 - 142				
Methyl Acetate	49.6	µg/L	SW8260D	1.27	5.00	20.00	0	248	87 - 300				
Methyl tert-butyl ether	22.9	µg/L	SW8260D	1.26	2.00	20.00	0	115	58 - 135				
Methylcyclohexane	23.4	µg/L	SW8260D	0.528	2.00	20.00	0	117	55 - 151				
Methylene chloride	25.2	µg/L	SW8260D	0.451	2.00	20.00	0	126	65 - 154				
Naphthalene	14.4	µg/L	SW8260D	0.730	2.00	20.00	0	72.0	55 - 128				
o-Xylene	19.4	µg/L	SW8260D	0.153	2.00	20.00	0	97.0	70 - 142				
Styrene	18.2	µg/L	SW8260D	0.570	2.00	20.00	0	91.2	71 - 135				
Tetrachloroethene	23.0	µg/L	SW8260D	0.458	2.00	20.00	0	115	58 - 149				
Toluene	21.1	µg/L	SW8260D	0.277	2.00	20.00	0	106	69 - 129				
trans-1,2-Dichloroethene	24.5	µg/L	SW8260D	0.282	2.00	20.00	0	122	70 - 134				
trans-1,3-Dichloropropene	22.0	µg/L	SW8260D	0.772	2.00	20.00	0	110	63 - 132				
Trichloroethene	24.0	µg/L	SW8260D	0.180	2.00	20.00	0	120	72 - 136				
Trichlorofluoromethane	21.0	µg/L	SW8260D	0.375	2.00	20.00	0	105	59 - 152				
Vinyl chloride	18.1	µg/L	SW8260D	0.205	1.00	20.00	0	90.6	43 - 152				
Surr: 1,2-Dichloroethane-d4	57.8	µg/L	SW8260D			50.00		116	80 - 136				
Surr: 4-Bromofluorobenzene	44.8	µg/L	SW8260D			50.00		89.7	85 - 121				
Surr: Dibromofluoromethane	56.2	µg/L	SW8260D			50.00		112	78 - 132				



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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103307-001AMS	Date Analyzed: 03/11/2021 1203h												
Test Code: 8260D-W													
Surr: Toluene-d8	49.2	µg/L	SW8260D			50.00		98.4	81 - 123				

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*



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**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103307-001AMSD	Date Analyzed:	03/11/2021 1223h											
<b>Test Code:</b> 8260D-W													
1,1,1-Trichloroethane	26.3	µg/L	SW8260D	0.326	2.00	20.00	0	131	72 - 132	25.1	4.83	35	
1,1,2,2-Tetrachloroethane	24.8	µg/L	SW8260D	0.164	2.00	20.00	0	124	68 - 140	22.9	7.98	35	
1,1,2-Trichloro-1,2,2-trifluoroethane	28.0	µg/L	SW8260D	1.59	2.00	20.00	0	140	54 - 174	26.9	3.75	35	
1,1,2-Trichloroethane	23.6	µg/L	SW8260D	0.143	2.00	20.00	0	118	88 - 126	21.8	8.06	35	
1,1-Dichloroethane	27.4	µg/L	SW8260D	1.15	2.00	20.00	0	137	78 - 142	26	5.43	35	
1,1-Dichloroethene	27.1	µg/L	SW8260D	0.782	2.00	20.00	0	136	37 - 144	25.2	7.29	35	
1,2,3-Trichlorobenzene	20.9	µg/L	SW8260D	1.08	2.00	20.00	0	104	60 - 136	19.1	8.76	35	
1,2,4-Trichlorobenzene	16.3	µg/L	SW8260D	1.30	2.00	20.00	0	81.6	45 - 138	14.9	9.24	35	
1,2-Dibromo-3-chloropropane	20.8	µg/L	SW8260D	0.295	5.00	20.00	0	104	71 - 129	18.7	11.0	35	
1,2-Dibromoethane	22.3	µg/L	SW8260D	0.232	2.00	20.00	0	112	77 - 124	20.5	8.69	35	
1,2-Dichlorobenzene	21.4	µg/L	SW8260D	0.155	2.00	20.00	0	107	70 - 130	20.1	6.17	35	
1,2-Dichloroethane	25.0	µg/L	SW8260D	0.144	2.00	20.00	0	125	76 - 132	23.7	5.30	35	
1,2-Dichloropropane	24.0	µg/L	SW8260D	0.262	2.00	20.00	0	120	81 - 135	22.5	6.42	35	
1,3-Dichlorobenzene	21.6	µg/L	SW8260D	0.191	2.00	20.00	0	108	71 - 139	20	7.72	35	
1,4-Dichlorobenzene	21.9	µg/L	SW8260D	0.229	2.00	20.00	0	110	67 - 138	20.5	6.55	35	
1,4-Dioxane	269	µg/L	SW8260D	21.5	50.0	200.0	0	134	42 - 171	219	20.6	35	
2-Butanone	31.6	µg/L	SW8260D	1.22	10.0	20.00	0	158	69 - 236	30.1	4.83	35	
2-Hexanone	17.9	µg/L	SW8260D	1.51	5.00	20.00	0	89.6	51 - 167	17.5	2.20	35	
4-Methyl-2-pentanone	22.2	µg/L	SW8260D	0.296	5.00	20.00	0	111	68 - 128	21.8	1.77	35	
Acetone	28.4	µg/L	SW8260D	2.76	10.0	20.00	0	142	36 - 198	29	2.40	35	
Benzene	24.7	µg/L	SW8260D	0.147	2.00	20.00	0	123	78 - 125	22.9	7.35	35	
Bromochloromethane	24.4	µg/L	SW8260D	0.592	2.00	20.00	0	122	80 - 130	22.6	7.65	35	
Bromodichloromethane	24.6	µg/L	SW8260D	0.138	2.00	20.00	0	123	85 - 123	23	6.47	35	
Bromoform	22.6	µg/L	SW8260D	0.151	2.00	20.00	0	113	65 - 122	20.4	10.2	35	
Bromomethane	17.4	µg/L	SW8260D	3.03	5.00	20.00	0	86.8	10 - 168	17.4	0.173	35	
Carbon disulfide	28.9	µg/L	SW8260D	0.800	2.00	20.00	0	144	34 - 178	29.4	1.89	35	
Carbon tetrachloride	26.1	µg/L	SW8260D	0.785	2.00	20.00	0	130	66 - 143	25.1	3.91	35	
Chlorobenzene	23.4	µg/L	SW8260D	0.154	2.00	20.00	0	117	74 - 126	21.9	6.80	35	





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## QC SUMMARY REPORT

**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103307-001AMSD	Date Analyzed:	03/11/2021 1223h											
<b>Test Code:</b> 8260D-W													
Chloroethane	21.0	µg/L	SW8260D	1.37	2.00	20.00	0	105	45 - 154	20.9	0.763	35	
Chloroform	25.6	µg/L	SW8260D	0.360	2.00	20.00	0	128	74 - 120	24.6	4.18	35	L
Chloromethane	16.8	µg/L	SW8260D	0.682	3.00	20.00	0	84.1	30 - 149	16	4.75	35	
cis-1,2-Dichloroethene	22.0	µg/L	SW8260D	0.188	2.00	20.00	0	110	70 - 132	22.9	3.78	35	
cis-1,3-Dichloropropene	21.9	µg/L	SW8260D	0.792	2.00	20.00	0	109	84 - 123	20.4	7.05	35	
Cyclohexane	20.4	µg/L	SW8260D	0.812	2.00	20.00	0	102	43 - 181	21.7	5.99	35	
Dibromochloromethane	22.1	µg/L	SW8260D	0.132	2.00	20.00	0	110	75 - 123	20.5	7.47	35	
Dichlorodifluoromethane	15.1	µg/L	SW8260D	0.422	2.00	20.00	0	75.4	10 - 165	14.4	4.54	35	
Ethylbenzene	22.6	µg/L	SW8260D	0.164	2.00	20.00	0	113	67 - 130	20.9	7.72	35	
Isopropylbenzene	19.8	µg/L	SW8260D	0.671	2.00	20.00	0	99.2	68 - 147	18.2	8.45	35	
m,p-Xylene	48.3	µg/L	SW8260D	0.556	2.00	40.00	0	121	69 - 142	44.8	7.51	35	
Methyl Acetate	53.4	µg/L	SW8260D	1.27	5.00	20.00	0	267	87 - 300	49.6	7.28	35	
Methyl tert-butyl ether	23.1	µg/L	SW8260D	1.26	2.00	20.00	0	116	58 - 135	22.9	0.695	35	
Methylcyclohexane	24.8	µg/L	SW8260D	0.528	2.00	20.00	0	124	55 - 151	23.4	5.60	35	
Methylene chloride	26.2	µg/L	SW8260D	0.451	2.00	20.00	0	131	65 - 154	25.2	3.89	35	
Naphthalene	16.2	µg/L	SW8260D	0.730	2.00	20.00	0	81.1	55 - 128	14.4	11.9	35	
o-Xylene	21.4	µg/L	SW8260D	0.153	2.00	20.00	0	107	70 - 142	19.4	9.90	35	
Styrene	19.7	µg/L	SW8260D	0.570	2.00	20.00	0	98.4	71 - 135	18.3	7.54	35	
Tetrachloroethene	24.2	µg/L	SW8260D	0.458	2.00	20.00	0	121	58 - 149	23	5.38	35	
Toluene	22.8	µg/L	SW8260D	0.277	2.00	20.00	0	114	69 - 129	21.1	7.70	35	
trans-1,2-Dichloroethene	25.8	µg/L	SW8260D	0.282	2.00	20.00	0	129	70 - 134	24.5	5.29	35	
trans-1,3-Dichloropropene	23.9	µg/L	SW8260D	0.772	2.00	20.00	0	119	63 - 132	22	8.20	35	
Trichloroethene	25.4	µg/L	SW8260D	0.180	2.00	20.00	0	127	72 - 136	24	5.51	35	
Trichlorofluoromethane	21.8	µg/L	SW8260D	0.375	2.00	20.00	0	109	59 - 152	21	3.70	35	
Vinyl chloride	19.5	µg/L	SW8260D	0.205	1.00	20.00	0	97.6	43 - 152	18.1	7.49	35	
Surr: 1,2-Dichloroethane-d4	56.7	µg/L	SW8260D			50.00		113	80 - 136				
Surr: 4-Bromofluorobenzene	45.1	µg/L	SW8260D			50.00		90.3	85 - 121				
Surr: Dibromofluoromethane	55.4	µg/L	SW8260D			50.00		111	78 - 132				



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**Client:** Applied Geotechnical  
**Lab Set ID:** 2103307  
**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**Contact:** Joe DeGooyer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 2103307-001AMSD	Date Analyzed: 03/11/2021 1223h												
Test Code: 8260D-W													
Surr: Toluene-d8	49.4	µg/L	SW8260D			50.00		98.9	81 - 123				

*L - High LCS, MS, and MSD recoveries indicate possible bias high. Data deemed acceptable as the analyte was not observed in the field sample.*

## WORK ORDER Summary

Work Order: **2103307**

Page 1 of 1

**Client:** Applied Geotechnical

Due Date: 3/18/2021

**Client ID:** APP100

**Contact:** Joe DeGooyer

**Project:** Forsey's Cleaners MW's 16-20 / 1210149

**QC Level:** II+

WO Type: Standard

**Comments:** 5 Day Rush (after 4pm); QC 2+;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2103307-001A	MW-16	3/10/2021 1225h	3/10/2021 1705h	8260D-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2103307-002A	MW-17	3/10/2021 1300h	3/10/2021 1705h	8260D-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2103307-003A	MW-17 Duplicate	3/10/2021 1310h	3/10/2021 1705h	8260D-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2103307-004A	MW-18	3/10/2021 1336h	3/10/2021 1705h	8260D-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2103307-005A	MW-19	3/10/2021 1410h	3/10/2021 1705h	8260D-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2103307-006A	MW-20	3/10/2021 1500h	3/10/2021 1705h	8260D-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								
2103307-007A	Trip Blank	3/10/2021	3/10/2021 1705h	8260D-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260D-W-AWAL; # of Analytes: 53 / # of Surr: 4</i>								

