

**TECHNICAL MEMORANDUM**

**DATE:** January 25, 2023

**TO:** Whitney's Chevrolet, Inc.  
c/o Mr. Clark Davis

**FROM:** Ms. Mariem Esparra – Project Manager / Project Engineer  
Mr. Adam Morine, PE – Senior Engineer

**RE:** Remediation System Testing  
Whitney's Chevrolet Site  
123 West Pioneer Avenue  
Montesano, Washington  
Agreed Order No. DE 11121

*Mariem Esparra*

TRC Project Number: 015347.0021

As you are aware, an air sparging / soil vapor extraction (AS/SVE) system has been operating at the Whitney's Chevrolet Site in Montesano, Washington (Site). The AS/SVE system is a component of the Cleanup Action Plan (CAP) required under Agreed Order No. DE 11121 (AO) between Whitney's Chevrolet and the Washington State Department of Ecology (Ecology).

The AS/SVE system has been highly effective at remediating the Site as documented in the quarterly and annual monitoring reports. In recent months the effectiveness of the AS/SVE system appears to have diminished. This is not an uncommon condition as remediation progresses and residual contamination may be present in locations that the AS/SVE system may not address. The inability to address all areas may be related to limitations on the placement of wells based on access and existing improvements, non-homogeneous subsurface conditions, or the presence of subsurface improvements such as utility corridors. Remediation systems often require modifications to their configuration or operation in the later stages of remediation. Such modifications are reasonable and necessary in order to achieve the remedial action objectives and to comply with the intent of the AO.

Based on the recent performance of the AS/SVE system and at the request of the consultant for Whitney's Chevrolet's insurer, a specific field-testing program was requested to evaluate the soil conditions in some localized areas of the Site. The requested testing was to determine if sufficient vacuums are being applied in the subsurface by the SVE system and to assess the potential to enhance the performance of the current system.

The specific scope of work requested by the consultant to the insurers included the application of SVE vacuums in selected groundwater monitoring wells to determine if sufficient vacuums were observed in areas where no current SVE wells exist and their responsiveness to SVE. While testing of the groundwater monitoring wells provided some information regarding the radius of vacuum influence when operated as SVE wells, the requested testing did not necessarily provide a direct correlation between the application of SVE in shallower vadose zone soils (as the system currently operates) and the observed vacuums in similarly constructed wells.

Shallow-vacuum testing of operating SVE wells in other shallow observation points was not tested as a component of this work, nor was the effectiveness of air sparging.

TRC Environmental Corporation (TRC) used the information requested as a component of this work to make the conclusions and recommendations provided herein. The results of this testing combined with the groundwater monitoring program were used to develop a recommended plan to amend the existing AS/SVE system and enhance its potential to continue to clean up soil and groundwater at the Site. Those recommendations are presented at the end of this Technical Memorandum.

The requested testing program included the following tests:

- An evaluation of the contaminant mass recovery by collecting vapor concentrations at SVE wellheads SVE-4 through SVE-10, and groundwater monitoring wells WCMW-2, WCMW-3, WCMW-4, KBMW-4, KBMW-7, and KBMW-9; and
- Vacuum radius of influence response testing in existing groundwater monitoring wells.

## **GENERAL SYSTEM CONSTRUCTION DETAILS**

The Site is within an urban environment in a commercial area of downtown Montesano, Washington (Figure 1). The Site is mostly flat with a slight gradual slope to the south and east. The entirety of the Site is either paved or covered with concrete sidewalks or covered with buildings. One minor exception includes a 3-to-4-foot-wide planter strip area north of Charlie's Sports Bar, and east of Umpqua Bank (Figure 2).

The remediation system consists of 10 SVE and 24 AS wells. The SVE and AS systems are divided into two major areas: the western half and the eastern half. The SVE blower services both areas, but the AS system(s) utilize two independent compressors to service each half. In general, the western half of the system's wells are serviced by overhead AS and SVE header piping inside the Whitney's Chevrolet building, which then splits off and services individual wells. The SVE and AS piping in the eastern half is all belowground (Figure 3).

AS wells are constructed of 2-inch polyvinyl chloride (PVC) and include 2-foot long specially designed C-spargate micro-bubbling well screens. The wells screens are generally set from 23 to 25 feet below ground surface (bgs). These specialized well screens allow for the formation of many small bubbles, which increases the surface area interface between the sparged air and the groundwater. An increase in surface

area also increases the transformation rates(s) of the contamination from dissolved phase to vapor phase.

SVE wells are generally constructed of 4-inch diameter Schedule 40 PVC with 0.010-inch slotted well screen. SVE well screens are set from approximately 5 to 15 feet bgs, which is generally above the seasonal water table.

Shallow utilities exist throughout the Site including water, power, communications, and storm drains. Deeper utilities including active and abandoned sewer lines also exist in some areas. Figure 3 shows the known existing utilities at the Site.

A discussion of the field methodology, observations, and recommendations is presented in the sections below.

## FIELD METHODOLOGY

TRC mobilized to the Site on August 4 and August 5, 2021 to perform limited testing of pre- and post-optimization conditions. TRC also assessed pneumatic subsurface responses to vacuum extraction in multiple locations. As discussed above, the intent was to determine if sufficient vacuum responses were observed in groundwater monitoring wells with recalcitrant gasoline-range hydrocarbons (GRPH) concentrations during system operation, and the degree to which optimization could improve system performance. The focus was to evaluate whether the current well spacing is sufficient, and/or if insufficient radial vacuum coverage is occurring at the Site during operation of the SVE system. Figure 3 shows the SVE and AS system layout.

Prior to shutting down the SVE system, baseline SVE vacuum readings were collected at the wellheads from SVE wells SVE-4, SVE-5, SVE-7, SVE-8, and SVE-10 and from monitoring wells WCMW-2, WCMW-3, WCMW-4, KBMW-4, and KBMW-7. Wells SVE-6 and SVE-9 were inaccessible at the time of testing. The table below presents the baseline vacuums observed during operation of the SVE system prior to shut down and optimization:

**Baseline SVE Vacuum Readings**

<b>Well ID</b>	<b>Baseline SVE Vacuum Readings (in. w.c.)</b>
SVE-4	-35
SVE-5	-32
SVE-6	NM
SVE-7	-41
SVE-8	-36
SVE-9	NM
SVE-10	-28

<b>Well ID</b>	<b>Baseline SVE Vacuum Readings (in. w.c.)</b>
WCMW-2	-4.6
WCMW-3	-4.7
WCMW-4	-0.31
KBMW-4	-0.54
KBMW-7	-0.84

Notes:

in. w.c. Inches of water column measured in selected SVE and monitoring wells with AS/SVE system operating under normal conditions.

NM Not measured.

Vacuum testing prior to shutdown indicated that sufficient vacuums were measured at the operating SVE wells, and in surrounding monitoring wells. Vacuums produced at the SVE wells during operation generally exceed approximately 30 inches of water column (in. w.c.), which is the design criteria for operating SVE wells.

Once vacuum readings were collected and recorded, the SVE system was shut down and baseline soil gas samples were collected from the wellheads of each active SVE well. Soil gas samples were collected from SVE-4 through SVE-10 using a portable vacuum pump coupled directly to barb fittings on the SVE wellheads. Samples were collected into 1-liter (L) Tedlar bags and put into a non-iced cooler awaiting transport to Friedman and Bruya, Inc. in Seattle, Washington. In addition to collecting soil gas samples, representative photoionization detector (PID) samples were collected by purging and filling unused 1-L Tedlar bags. A PID reading was additionally collected from each of those wells.

All the samples submitted to the laboratory were less than the reporting limits for the laboratory analysis. It is suspected that minor leaks in the sample pump may have contributed to the lack of detectable GRPH in the samples during this event. A PID was used to screen each operating SVE well to determine if adjustments may be made based on observable trends. Since the range of the PID is approximately 1,000 times lower than the reporting limits of the laboratory, and data may be influenced by the presence of moisture in the air stream. These data are considered as a preliminary screening tool only.

### Baseline SVE Well Data

Well ID	PID (ppm)	Lab GRPH RL (µg/L)	Lab GRPH Concentration (µg/L)	Pressure Reading (in w.c.)
SVE-4	4.9	<5.0	ND	-35
SVE-5	1.1	<5.0	ND	-32
SVE-6	2.7	<5.0	ND	NM
SVE-7	6.0	<5.0	ND	-41
SVE-8	2.0	<5.0	ND	-36
SVE-9	5.1	<5.0	ND	NM
SVE-10	3.3	<5.0	ND	-28

Notes:

PID	Photoionization detector
GRPH	Gasoline-range hydrocarbons
ppm	Parts per million
RL	Reporting limit
µg/L	Micrograms per liter
in. w.c.	Inches of water column
ND	Not detected
NM	Not measured (well shut off)

TRC conducted a total of four separate soil vapor vacuum extraction tests at the following groundwater monitoring wells in the order presented:

- KBMW-7
- KBMW-4
- WCMW-3
- WCMW-2

Prior to conducting the tests, TRC collected background baseline pressure measurements from observation wells with exposed well screen above the water table. These baseline pressure measurements were used as the basis for determining increased vacuum responses in nearby wells once the vacuum was applied to the test well. Observation well pressure readings were collected using air-tight rubber Fernco fittings and valves coupled to a TEC-1000 digital differential pressure meter.

The short-term vacuum extraction tests were conducted at two separate vacuum steps using a portable vacuum blower and dilution valve to adjust vacuum applied at the well. Testing at multiple vacuum steps allows for observable trends that are important to design considerations such as limitations imposed by the geology of the subsurface, well screens, applied vacuums, or equipment limitations. The vacuum blower was equipped with a dilution valve and gauge for measuring and controlling applied vacuum at the test wellhead, and a rotameter to measure the flow rate(s) being extracted from the test wells. In addition, the test piping included a port for the collection of soil gas samples at the wellheads.

## OBSERVATIONS

One common metric that is used in the design and operation of SVE systems is the effective radius of influence (ROI). The effective ROI for design purpose is the distance at which the measured vacuum is 1 percent of the induced wellhead vacuum. This is to ensure that a sufficiently strong vacuum is experienced throughout the Site when operating the SVE system in the area.

### Test Number 1

Test Number 1 was performed at monitoring well KBMW-7. During testing, vacuums of approximately 20 in. w.c. and 44 in. w.c. were applied, resulting in observed recovery flow rates of 17 cubic feet per minute (cfm) and 28 cfm, respectively. The table below presents the results of the SVE pilot testing performed at KBMW-7.

Well ID	Test Well Data		Observation Well Vacuum Increase (in w.c.)	Observation Well % of Applied Vacuum	Observation Well Distance from Test Well (feet)
	Vacuum (in w.c.)	Flow (cfm)			
KBMW-7	20.0	17	NA	NA	NA
SVE-7	NA	NA	0.042	<b>0.210</b>	9
KBMW-4	NA	NA	0.173	<b>0.865</b>	62
SVE-8	NA	NA	0.019	0.095	98
Well ID	Test Well Data		Observation Well Vacuum Increase (in w.c.)	Observation Well % of Applied Vacuum	Observation Well Distance from Test Well (feet)
	Vacuum (in w.c.)	Flow (cfm)			
KBMW-7	44.0	28	NA	NA	NA
SVE-7	NA	NA	0.077	0.175	9
KBMW-4	NA	NA	0.330	<b>0.750</b>	62
SVE-8	NA	NA	0.037	0.084	98

Notes:

An observation well vacuum of 1 percent or greater of the applied vacuum indicates the well is within the ROI of the test well.

**Bold** Indicates within ROI.

NA Not applicable.

The lack of appreciable vacuum response in SVE-7, which is less than 10 feet from the extraction wells, during testing suggests that the nearby conveyance piping corridor for the SVE and AS lines may be acting as a preferential pathway, thus reducing vacuum and mass recovery in deeper soil zones. The significant vacuum response at KBMW-4 and the flow rate at the recovery well indicate that vacuums induced by SVE in this area sufficiently cover the remedial area and are functioning to recover vapors from within the design ROI, but preferential flow pathways may be inhibiting airflow in targeted areas. Figure 4 presents a cross-section depicting the potential for short circuiting from SVE wells located near utility corridors. The observed ROI for extraction at KBMW-7 is somewhere between 5 and 20 feet.

The extraction well for this test was a monitoring well, KBMW-4. Monitoring wells at the Site are generally screened across the groundwater table with well screens that begin at approximately 15 feet bgs. This results in a screened interval from about 15 to 25 feet bgs, which was the water table elevation at the time of testing. SVE wells are generally constructed with well screens constructed within a shallower portion of the vadose zone, typically extending from about 5 feet bgs to 15 feet bgs. A strong vacuum response was observed at KBMW-4 when a vacuum was applied to monitoring well KBMW-7. Conclusively, deep vacuum application resulted in stronger responses in similarly screened well intervals, suggesting that lateral air flows are predominant in these soil types. Given the observed potential short circuiting at SVE-7 it is possible that strong vacuum applications in shallow zones that may be experiencing vacuum loss from preferential pathways. Those pathways do not appear to significantly affect vacuums negatively in deeper soils.

### Test Number 2

Test Number 2 was performed at monitoring well KBMW-4. During testing, vacuums of approximately 24 in. w.c. and 40 in. w.c. were applied, resulting in observed recovery flow rates of 15 cfm and 24 cfm, respectively. The table below shows the results of the SVE pilot testing performed at KBMW-4.

Well ID	Test Well Data		Observation Well Vacuum Increase (in w.c.)	Observation Well % of Applied Vacuum	Observation Well Distance from Test Well (feet)
	Vacuum (in w.c.)	Flow (cfm)			
KBMW-4	24.0	15	NA	NA	NA
KBMW-3	NA	NA	0.204	<b>0.850</b>	40
SVE-9	NA	NA	0.015	0.063	42
KBMW-7	NA	NA	0.602	<b>2.508</b>	62
SVE-7	NA	NA	0.007	0.029	63
Well ID	Test Well Data		Observation Well Vacuum Increase (in w.c.)	Observation Well % of Applied Vacuum	Observation Well Distance from Test Well (feet)
	Vacuum (in w.c.)	Flow (cfm)			
KBMW-4	40.0	24	NA	NA	NA
KBMW-3	NA	NA	0.744	<b>1.860</b>	40
SVE-9	NA	NA	0.115	0.288	42
KBMW-7	NA	NA	0.602	<b>1.505</b>	62
SVE-7	NA	NA	0.017	0.043	63

Notes:

An observation well vacuum of 1 percent or greater of the applied vacuum indicates the well is within the ROI of the test well.

**Bold** Indicates within ROI.

NA Not applicable.

Test Number 2 confirmed that moderate recovery rates were occurring within the operating vacuum range of the current SVE system, and that the current SVE well spacing provides sufficient lateral coverage of

the treatment area and is within the design ROI for the SVE wells. The observed ROI for Test Number 2 was approximately 35 to 40 feet.

The results of Test Number 2 confirm the earlier observation that flow is primarily lateral and that shallow wells may be experiencing some short circuiting. We can see this by comparing wells at similar distances but screened in different intervals. Observation wells KBMW-3 and SVE-9 are both about 40 feet from the extraction wells but KBMW-3 is screened below 15 feet and SVE-9 is screened above 15 feet. The vacuum response at KBMW-3 was significantly greater than at SVE-9. A similar effect can be observed at KBMW-7 and SVE-7, which are both about 62 feet from the extraction wells. The deeper observation well (KBMW-7) again has the stronger vacuum response.

Monitoring well KBMW-4 is located along the sidewalk of South Main Street and adjacent to city sewer, electricity, and other utility corridors in addition to the SVE and AS conveyance piping (Figure 3). It is likely that preferential air flow pathways have developed along these corridors from the upper portions of the SVE well screens. As evidenced during the initial baseline vacuum data during system operation, strong vacuums were observed in monitoring wells located in fully covered areas where few utilities exist.

Weaker vacuums were observed in areas where surfaces were not covered, or in the areas with a multitude of utilities.

The observance of weak vacuum responses in SVE wells to the application of a vacuum in deeper soils suggest that similarly, the application of a vacuum in shallow soils (as with the SVE system) does not always propagate in the deeper soils when in the presence of utilities or uncompleted surfaces, due to atmospheric leakage.

It is also possible that some short-circuiting of air flow is also occurring through the landscape bed area behind Charlie's Sports Bar. SVE screens extend to within 5 feet of ground surface and near the presence of utilities may be acting as a conduit for preferential pathways to develop, limiting the ability for the vacuums to extend to the deeper subsurface. Where there are few utility corridors, such as inside the building, vacuums maintain strong responses with little vacuum dispersion (Figure 4).

### **Test Number 3**

Test Number 3 was performed at monitoring well WCMW-3, located inside the Whitney's Chevrolet building near the service bays. During testing, vacuums of approximately 20 in. w.c. and 40 in. w.c. were applied, resulting in observed recovery flow rates of 10 cfm and 15 cfm, respectively. The table below shows the results of the SVE pilot testing performed at WCMW-3.

Well ID	Test Well Data		Observation Well Vacuum Increase (in w.c.)	Observation Well % of Applied Vacuum	Observation Well Distance from Test Well (feet)
	Vacuum (in w.c.)	Flow (cfm)			
WCMW-3	20.0	10	NA	NA	NA
SVE-5	NA	NA	0.330	<b>1.65</b>	21
WCMW-2	NA	NA	1.190	<b>5.95</b>	39
WCMW-4	NA	NA	0.183	<b>0.92</b>	43
SVE-4	NA	NA	0.140	<b>0.70</b>	75
SVE-6	NA	NA	0.240	<b>1.20</b>	80
Well ID	Test Well Data		Observation Well Vacuum Increase (in w.c.)	Observation Well % of Applied Vacuum	Observation Well Distance from Test Well (feet)
	Vacuum (in w.c.)	Flow (cfm)			
WCMW-3	40.0	15	NA	NA	NA
SVE-5	NA	NA	1.590	<b>3.98</b>	21
WCMW-2	NA	NA	2.600	<b>6.50</b>	39
WCMW-4	NA	NA	0.270	<b>0.68</b>	43
SVE-4	NA	NA	0.260	<b>0.65</b>	75
SVE-6	NA	NA	0.380	<b>0.95</b>	80

Notes:

An observation well vacuum of 1 percent or greater of the applied vacuum indicates the well is within the ROI of the test well.

**Bold** Indicates within ROI.

NA Not applicable.

Strong vacuum responses were observed at each observation well location. The observed ROI during Test Number 3 is approximately 40 feet.

Very strong vacuum responses were observed within 40 feet of the test well (greater than 10 percent of the induced vacuum). Weaker vacuum responses in some locations suggest that vacuum loss may be occurring along electrical and communications utility corridors present within the alley along the western side of the Whitney's Chevrolet building and within approximately 38 feet of WCMW-3.

A stronger vacuum response was observed in the deeper soils than in the shallow soils. The vacuum response at WCMW-2 was greater than at SVE-5. WCMW-2 was twice as far away from the extraction well but still exhibited nearly 1.6 times the vacuum observed at SVE-5. Good vacuum responses were detected in observation wells as far as 80 feet away, indicating conditions that are conducive to SVE.

Well SVE-5 is located a greater distance from potential preferential pathways (50 feet). This observation further suggests that preferential pathways and short-circuiting may play a significant role in the effective ROI of individual SVE wells at the Site.

### Test Number 4

Test Number 4 was performed at monitoring well WCMW-2. During testing, vacuums of approximately 22 in. w.c. and 46 in. w.c. were applied, resulting in observed recovery flow rates of 4 cfm and 6 cfm, respectively. The table below shows the results of the SVE pilot testing performed at WCMW-2.

Well ID	Test Well Data		Observation Well Vacuum Increase (in w.c.)	Observation Well % of Applied Vacuum	Observation Well Distance from Test Well (feet)
	Vacuum (in w.c.)	Flow (cfm)			
WCMW-2	22.0	4	NA	NA	NA
SVE-5	NA	NA	0.410	<b>1.86</b>	36
WCMW-3	NA	NA	0.650	<b>2.96</b>	39
SVE-4	NA	NA	0.090	<b>0.41</b>	55
Well ID	Test Well Data		Observation Well Vacuum Increase (in w.c.)	Observation Well % of Applied Vacuum	Observation Well Distance from Test Well (feet)
	Vacuum (in w.c.)	Flow (cfm)			
WCMW-2	46.0	6	NA	NM	NA
SVE-5	NA	NA	0.600	<b>1.30</b>	36
WCMW-3	NA	NA	0.940	<b>2.04</b>	39
SVE-4	NA	NA	0.175	0.38	55

Notes:

An observation well vacuum of 1 percent or greater of the applied vacuum indicates the well is within the ROI of the test well.

**Bold** Indicates within ROI.

NA Not applicable.

Strong vacuum responses were observed at each observation well location. Strong vacuum responses were observed within 55 feet of the test well (greater than 10 percent of the induced vacuum). The observed ROI during Test Number 4 is approximately 40 to 50 feet.

As with Test Numbers 1, 2, and 3, a stronger vacuum response was observed in the deeper soils than in the shallow soils. This can be seen in well WCMW-3 and SVE-5, which are both about 40 feet from the extraction well, with the deeper well (WCMW-3) having a vacuum response significantly greater than shallow well (SVE-5).

Test Number 4 induced strong vacuum responses but yielded little recoverable air flow during the test. This suggests a relatively dense soil type in the vicinity of WCMW-2 but which still has a relatively high intrinsic permeability. The testing in other monitoring wells resulted in air flow as much as 4.7 times at comparable wellhead vacuums.

## SYSTEM OPTIMIZATION

Following the testing, TRC returned to the Site on August 19, 2021 to perform maintenance and optimization of the SVE and AS systems to maximize the potential of the equipment and focus operations in areas of high residual soil and groundwater mass. Condensate routinely forms and accumulates in several locations where pipes are exposed to cooler temperatures at night and during the winter. Each individual SVE line was inspected for the presence of accumulated condensate and pumped free of liquids, where encountered. Sump pump locations were accessed and cleaned as necessary to fully remove any remaining condensate. In addition, rotameters were removed and cleaned to allow for better air flow and reduced friction through the devices.

Pre-filters were checked and cleaned on the SVE blower and AS compressors to reduce frictional drag on the inlets to the pumps. Variable frequency drives were adjusted to ensure that the motors were being supplied sufficient power without over-drawing the running amperage and potentially damaging the motors or wires.

The SVE wells were shut down in areas where groundwater complies with cleanup standards to allow for reduced load on the blower and focused vacuum in areas where higher GRPH concentrations remain in groundwater.

The following SVE wells are currently operating:

- SVE-4, SVE-5, SVE-7, SVE-8, and SVE-10

The following SVE wells are currently closed:

- SVE-1, SVE-2, SVE-3, SVE-6, and SVE-9

The SVE wells that are shut off include those located around peripheral areas of the plume. This was done to facilitate higher SVE recovery rates, within the central core of the dissolved-phase plume(s). SVE flow rates were (and are currently) adjusted during the monthly operations and maintenance (O&M) events based on the prior quarters' groundwater data, operational limitations and PID readings (when concentrations were higher). Throughout 2022, the highest flow rates are observed from SVE-8 (around 16 to 26 cfm), then SVE-10 (8 to 32 cfm), then SVE-5 (7 to 18 cfm), and SVE-4 (6 to 12 cfm). Nominal flows of around 1 cfm occur at SVE-7. SVE flows after the August 2021 event yielded flow rates at the upper end of these ranges for each well, due to low-hydraulic conditions and increased available well screens.

Some AS wells were also shut off in areas where groundwater complies with cleanup standards to allow for reduced load on the compressors and increased sparge flows in areas where higher GRPH concentrations remain in groundwater.

The following AS wells are currently operating:

- AS-8, AS-9, AS-10, AS-11, AS-13, AS-14, AS-15, AS-16, AS-17, AS-18, AS-19, AS-23, and AS-24

The following AS wells are currently closed:

- AS-1, AS-2, AS-3, AS-4, AS-5, AS-6, AS-7, AS-20, AS-21, and AS-22

Figure 3 depicts the AS and SVE wells that are currently operating. AS and SVE wells that are lighter grey in color are currently turned off. TRC adjusts the pressure on both air compressors as necessary and allowable to increase the air flow in the target AS wells. AS wells generally receive between 0.5 and 3 cfm of sparge air.

The AS flow rates are adjusted based on quarterly groundwater data and water levels. During the dry months, AS flow rates increase as overall compressor pressures drop. During the wet months, lower AS flow rates are encountered due to higher water levels and increased pressures on the compressors. TRC continually adjusts AS flow rates based on system operation pressures and groundwater concentrations. Higher AS flow rates are encouraged in areas with high residual contamination.

In addition, the solenoid valves on the AS compressor servicing the western half of the Site were adjusted to sparge for 18 hours per day in areas of high remaining groundwater contamination and 6 hours per day in areas upgradient of the plume. This switch was conducted to promote additional sparging in critical areas and to reduce the time that was spent sparging in areas with less groundwater contamination.

The continuation of sparging in upgradient areas on a reduced schedule will assist in promoting aerobic biological remedial pathways while allowing for more rigorous sparging in areas with high remaining GRPH mass.

## **FINDINGS**

While the tests were limited in scope, there appears to be a relatively large ROI for SVE at the Site. However, there may be utility corridors or other preferential air flow pathways that are limiting the effectiveness of the SVE system in some localized regions of the Site. In addition, it is possible that "dead zones" of vacuum are occurring when wells compete for flow, particularly in the center of the plume(s).

The distribution of AS/SVE ROIs based on the current testing suggests that there may be a lack of radial coverage beneath the Whitney's Chevrolet building or beneath the Charlies Sport Bar. It appears that the SVE ROI is sufficient to capture these areas but that the AS ROI is insufficient.

Maintaining high recovery rates in areas with residual soil and groundwater impacts will facilitate the highest mass removal and encourage aerobic natural attenuation through increased available oxygen across the groundwater table to natural biota. Continual optimization of the AS and SVE flows during O&M events focused on the removal of condensate in SVE conveyance piping will promote higher mass removal and recovery rates. One month after optimization, mass removal increased by more than 14 times, from a baseline of approximately 0.04 pounds (lbs) per day to 0.5 lbs per day.

SVE flow rates generally increase during summer periods and drop in winter as water levels rise and condensate generation rates increase. Fluctuations in overall SVE system recovery flow rates can be found on Figure 5.

Contaminant concentration trends in the recovered SVE air are somewhat inconsistent, but generally increase in summer months, as groundwater retreats (Figure 5) and the smear-zone soils are more susceptible to SVE. Less significant increases in SVE concentrations occur in spring, as contamination is desorbed from the smear-zone and dissolved into the groundwater, where it is sparged.

Some areas of the groundwater plume do not appear to be sufficiently degrading, suggesting that there are some areas with residual mass that are not being adequately sparged. Areas such as the northwest corner of the Whitney's facility still show detections of tetrachloroethene (PCE), which indicate there may be zones that are currently uninfluenced by sparging due to preferential pathways. Additionally, areas in the southeastern portion of the Whitney's facility (paint booths and alleyway), are likely not receiving adequate sparging to fully address the residual mass.

## CONCLUSIONS

- Vacuum ROI from the existing SVE system appears to be adequate, despite some areas of potential short-circuiting.
- The ROI for the SVE portion of the system is functioning within the original design parameters. Approximately 30 inches of water column vacuum is being applied to existing SVE wells, in the field.
- Sparging is limited in areas between the Whitney's Chevrolet Building and the Charlie's Sports Bar building due to the presence of the utility corridors in the alley between the buildings and by the buildings themselves.
- Continued maintenance and optimization of the SVE system focused on condensate removal and maximizing flows in areas of higher residual contaminant mass will be critical in maintaining adequate system performance and sustained mass recovery.
- Increasing AS flow rates in areas with residual dissolved phase impacts. Shutting down peripheral AS wells that are outside the limits of the plume will facilitate increased AS flow rates in critical wells within the remaining source area(s).
- TRC will monitor progress through third quarter of 2022 with increased focus on condensate removal and system optimization, understanding that historically, lower mass removal rates are experienced during winter months.

## ADDITIONAL OPTIMIZATION ACTIONS

If optimization alone does not maintain consistent mass removal throughout the year, the following remedial actions may be considered to address residual impacts:

- Adding up to five additional AS wells in areas with high residual concentrations of GRPH in groundwater to facilitate a more aggressive sparging regimen. Additional wells would be focused in areas with residual groundwater contamination and may be angled under existing buildings. The existing infrastructure and piping from AS wells that have been shut down could be connected to the new wells, limiting installation costs.
- Convert five existing monitoring wells located within the core of the dissolved phase plume(s) to deep SVE wells. These wells could be converted to active SVE wells while remaining functional as groundwater monitoring wells. The existing infrastructure and piping from SVE wells that have been shut down could be connected to the new wells, limiting installation costs. Figure 6 presents proposed locations where new AS wells and converted SVE wells would provide substantial benefit.
- Adding preventative short-circuiting barriers such as plastic in the planter bed behind Charlie's Sports Bar to help focus vacuum propagation below ground. Additional sealing of cracks in the asphalt cover in areas with limited performance would be beneficial to reduce SVE short-circuiting. This may also require the removal of existing shrubs and landscaping.
- Amendments such as liquid oxidizers, carbon-sequestering agents, surfactants, or enhanced biological amendments may be introduced to the groundwater as discussed in the Feasibility Study (FS) once the remedial progress of the AS/SVE system diminishes. Groundwater concentrations are still sufficiently high that these methods may currently provide little benefit, based on the mass of product that would need to be introduced. Additionally, the presence of buildings and roadways make the injection of these products difficult to distribute into the groundwater.

As noted above, for the 2021 to 2022 monitoring and operating cycle that began in August 2021, the operation of the AS/SVE system has been modified to focus on the central core of the dissolved phase plume. System monitoring data confirmed that the system discharges were in compliance with the Olympic Region Clean Air Agency (ORCAA) Notice of Construction permit limits.

Continued monitoring during this operational cycle will assess whether this optimization is serving to increase mass removal and result in further improvements in groundwater quality. Based on the outcome of that monitoring, TRC may recommend further modifications of the AS/SVE system.

Tabulated vapor emission data for the SVE system are summarized in Table 1. Tabulated mass removal and destruction efficiency data for the SVE system are summarized in Table 2. A copy of the laboratory analytical report for the system vapor samples is provided in Attachment A.

## **ENCLOSURES**

### **Tables**

Table 1	SVE System Vapor Emission Data
Table 2	SVE System Mass Removal and Destruction Efficiency

### **Figures**

Figure 1	General Vicinity Map
Figure 2	Site Representation with Site Boundary and Monitoring Well Locations
Figure 3	Site Representation with AS/SVE/LNAPL System Layout
Figure 4	Cross Section A-A'
Figure 5	Groundwater GRPH Concentrations and Cumulative GRPH Mass Removed
Figure 6	Proposed Air Sparge and Soil Vapor Wells

### **Attachment**

Attachment A	Laboratory Analytical Reports
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## Tables

**Table 1**  
**SVE System Vapor Emission Data**  
**Technical Memorandum - Remediation System Testing**  
**Whitney's Chevrolet Site**  
**123 West Pioneer Avenue, Montesano, Washington**

Sample ID	Date Collected	GRPH <sup>a</sup>	Benzene <sup>b</sup>	Toluene <sup>b</sup>	Ethyl-benzene <sup>b</sup>	Total Xylenes <sup>b</sup>	Naphthalene <sup>b</sup>	PCE <sup>b</sup>
INF1-0215	2/15/17	147	0.175	<0.1	<0.1	0.117	<0.1	0.192
EFF1-0215		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1A-0328	3/28/17	227	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EFF1-0328		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0330	3/30/17	151	0.104	<0.1	<0.1	<0.1	<0.1	<0.1
EFF1-0330		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0403	4/3/17	477	<0.1	<0.1	<0.1	1.08	<0.1	<0.1
EFF1-0403		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0410	4/10/17	268	0.146	0.211	0.341	1.68	<0.1	<0.1
EFF1-0410		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0418	4/18/17	108	<0.1	0.283	0.158	0.998	<0.1	<0.1
EFF1-0418		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0428	4/28/17	319	<0.1	0.300	0.250	1.38	<0.1	<0.1
EFF1-0428		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	0.105
INF1-0503	5/3/17	129	<0.1	0.187	0.214	1.31	<0.1	<0.1
EFF1-0503		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0504	5/4/17	103	<0.1	0.152	0.147	1.04	<0.1	<0.1
EFF1-0504		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0508	5/8/17	294	<0.1	<0.1	0.224	0.960	<0.1	<0.1
EFF1-0508		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0515	5/15/17	176	<0.1	0.320	0.187	1.28	<0.1	<0.1
EFF1-0515		12.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0522	5/22/17	183	<0.1	0.256	0.150	1.19	<0.1	<0.1
EFF1-0522		25.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0714	7/14/17	268	<0.1	0.500	0.0183	1.830	<0.1	<0.1
EFF1-0714		6.83	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0806	8/6/17	261	0.218	0.929	0.429	2.991	<0.1	<0.1
EFF1-0806		<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0919	9/19/17	201	<0.1	0.450	0.281	2.151	<0.1	<0.1
EFF1-0919		12.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-1025	10/25/17	132	<0.1	<0.1	<0.1	0.521	<0.1	<0.1
EFF1-1025		41.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-1127	11/27/17	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EFF1-1127		24.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-1220	12/20/17	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EFF1-1220		16.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF1-0117	1/17/18	1.66	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EFF1-0117		51.0	0.479	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0205	2/5/18	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0314	3/14/18	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0426	4/26/18	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0524	5/24/18	12.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0615	6/15/18	27.7 H	<0.1	<0.1 H	<0.1	<0.1	<0.1	<0.1
INF-0713	7/13/18	39.4	<0.1	<0.1	<0.1	0.331	0.160	<0.1
INF-0813	8/13/18	49.2	<0.1	<0.1	<0.1	0.105	<0.1	<0.1
INF-0928	9/28/18	14.1	<0.1	<0.1	<0.1	0.111	<0.1	<0.1
INF-1023	10/23/18	47.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-1204	12/4/18	5.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0111	1/11/19	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0222	2/22/19	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0329	3/29/19	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0426	4/26/19	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0603	6/3/19	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0711	7/11/19	54.7	<0.1	<0.1	<0.1	0.164	<0.1	<0.1
INF-0819	8/19/19	49.7 H	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0919	9/19/19	37.1	<0.1	<0.1	0.110	0.318	<0.1	<0.1
INF-1018	10/18/19	26.8	<0.1	<0.1	<0.1	0.146	<0.1	<0.1
INF-1122	11/22/19	27.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-1220	12/20/19	10.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0120	1/17/20	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0213 <sup>c</sup>	2/13/20	2.05	0.002	0.0048	<0.002	0.0060	0.0008	0.00726
INF-0320 <sup>c</sup>	3/20/20	2.31	0.00256	0.00638	<0.002	0.00916	0.00171	0.00321
INF-0423	4/23/20	7.71	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0518	5/18/20	15.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0618	6/18/20	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0716	7/16/20	5.69	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-1109	11/9/20	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-1215	12/15/20	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0113	1/13/21	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0208	2/8/21	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0317	3/17/21	<5.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
INF-0414	4/14/21	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400
INF-0510	5/10/21	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400
INF-0616	6/16/21	2.10	0.00133	0.00475	<0.0174	<0.02174	0.00356	0.00387
INF-0804	8/4/21	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400

**Table 1**  
**SVE System Vapor Emission Data**  
**Technical Memorandum - Remediation System Testing**  
**Whitney's Chevrolet Site**  
**123 West Pioneer Avenue, Montesano, Washington**

Sample ID	Date Collected	GRPH <sup>a</sup>	Benzene <sup>b</sup>	Toluene <sup>b</sup>	Ethyl-benzene <sup>b</sup>	Total Xylenes <sup>b</sup>	Naphthalene <sup>b</sup>	PCE <sup>b</sup>
INF-0929	9/29/21	<b>34.5</b>	<0.0440	<0.0750	<b>0.043</b>	<b>0.2555</b>	<0.125	<b>0.0473</b>
INF-102221	10/22/21	<b>13.6</b>	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.100
INF-1102	11/2/21	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400
INF-1207	12/7/21	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400
INF-0105	1/5/22	<5.0	<0.0440	<0.0750	<0.0400	<b>0.1150</b>	<0.125	<0.0400
INF-0221	2/21/22	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400
INF-0322	3/22/22	<b>8.85</b>	<0.0440	<0.0750	<0.0400	<0.1500	<0.125 Q	<0.0400
INF-0412	4/12/22	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400
INF-0513	5/13/22	<b>6.17 H</b>	<0.0440	<0.0750	<0.0400	<0.1500	<0.125 Q	<0.0400
INF-0628	6/28/22	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400
INF-0728	7/28/22	<b>13.8</b>	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400
INF-0822	8/22/22	<5.0	<0.0440	<0.0750	<0.0400	<0.1500	<0.125	<0.0400

Notes:

All results presented in micrograms per liter (µg/L).

- Bold** Bold result exceeds the laboratory method detection limit.
- < Result is less than the laboratory method detection limit.
- a Analyzed by Ecology Method NWTPH-Gx.
- b Analyzed by EPA Method 8260C.

Compounds:

- GRPH Gasoline-range petroleum hydrocarbons
- PCE Tetrachloroethene

Qualifier:

- H Holding times for preparation or analysis exceeded.
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria.

**Table 2**  
**SVE System Mass Removal and Destruction Efficiency**  
**Remediation System Testing Technical Memorandum**  
**Whitney's Chevrolet Site**  
**123 West Pioneer Avenue, Montesano, Washington**

Date	Field Inputs				Mass Removal			Vapor Control Efficiency			Vapor Control Efficiency PID Screening			
	SVE Run Time Since Last Event <sup>a</sup> (days)	System Flow Rate to Carbon <sup>b</sup> (scfm)	Influent GRPH Conc. to Carbon <sup>c</sup> (µg/L)	Effluent GRPH Conc. <sup>d</sup> (µg/L)	GRPH Removal Rate <sup>e</sup> (lbs/day)	GRPH Removed During Period <sup>f</sup> (lbs)	Cumulative GRPH Removed <sup>g</sup> (lbs)	Mass Flow Rate In (lbs/day)	Mass Flow Rate Out (lbs/day)	Carbon Adsorption Control Efficiency <sup>h</sup> (%)	Inf-Carbon PID Reading (ppm)	Mid-Carbon PID Reading (ppm)	Post-Carbon PID Reading (ppm)	Carbon Adsorption Control Efficiency (%)
02/15/17	1.07	111	147	<5.0	1.5	1.6	1.6	0.0	0.0	100.0	NM	NM	NM	NM
03/27/17	0.20	154	147	<5.0	2.0	0.4	2.0	2.0	0.0	100.0	NM	NM	NM	NM
03/28/17	1.10	112	227	<5.0	2.3	2.5	4.5	2.3	0.0	100.0	58.8	NM	0.0	100.0%
03/30/17	1.80	133	151	<5.0	1.8	3.2	7.7	1.8	0.0	100.0	37.9	NM	11.3	70.2%
04/03/17	1.20	192	477	<5.0	8.2	9.9	17.6	8.2	0.0	100.0	89.1	NM	1.2	98.7%
04/10/17	7.00	123	268	<5.0	3.0	20.7	38.3	3.0	0.0	100.0	38.0	NM	0.7	98.2%
04/18/17	8.00	164	108	<5.0	1.6	12.7	51.0	1.6	0.0	100.0	26.5	NM	2.6	90.2%
04/24/17	5.90	198	319	<5.0	5.7	33.5	84.5	5.7	0.0	100.0	49.7	NM	0.0	100.0%
05/03/17	9.20	208	129	<5.0	2.4	22.2	106.6	2.4	0.0	100.0	28.4	NM	1.0	96.5%
05/04/17	0.10	161	103	<5.0	1.5	0.1	106.8	1.5	0.0	100.0	24.4	NM	0.0	100.0%
05/08/17	4.00	212	294	<5.0	5.6	22.4	129.2	5.6	0.0	100.0	61.8	NM	0.0	100.0%
05/15/17	7.00	165	176	12.8	2.6	18.2	147.4	2.6	0.2	92.7	71.9	NM	10.1	86.0%
05/22/17	6.10	185	183	25.3	3.0	18.5	165.9	3.0	0.4	86.2	99.7	13.1	6.0	94.0%
07/14/17	14.80	201	268	6.830	4.8	71.6	237.5	4.8	0.1	97.5	53	NM	0	100.0%
08/06/17	23.10	200	261	<5.0	4.7	108.2	345.7	4.7	0.0	100.0	45	NM	5.0	88.9%
09/19/17	42.10	201	201	12.8	3.6	152.7	498.4	3.6	0.2	93.6	142.1	NM	3.8	97.3%
10/25/17	35.88	193	132	41.9	2.3	82.0	580.5	2.3	0.7	68.3	5.0	NM	2.0	60.0%
11/27/17	38.92	184	2.5 <sup>i</sup>	24.4	0.04	1.6	582.1	0.0	0.0	---	2.5	NM	4.3	---
12/20/17	21.00	180	2.5 <sup>i</sup>	16.6	0.04	0.8	582.9	0.0	0.3	---	5.0	NM	2.0	---
01/17/18	27.90	184	1.66	51.0	0.03	0.8	583.7	0.0	0.8	---	5.0	NM	2.0	---
02/05/18	19.00	173	2.5 <sup>i</sup>	NM	0.04	0.7	584.4	0.0	0.0	---	2.5	NM	4.3	---
03/14/18	33.88	160	2.5 <sup>i</sup>	NM	0.04	1.2	585.6	0.04	0.0	---	6.4	NM	NM	---
04/26/18	42.95	160	2.5 <sup>i</sup>	NM	0.04	1.5	587.2	0.04	0.0	---	52.2	NM	NM	---
05/24/18	28.05	155	12.0	NM	0.17	4.7	591.9	0.17	0.0	---	15.8	NM	NM	---
06/15/18	14.98	150	27.7	NM	0.37	5.6	597.5	0.37	0.0	---	62.8	NM	NM	---
07/13/18	27.99	224	39.40	NM	0.79	22.2	619.6	0.79	0.0	---	54.6	NM	NM	---
08/13/18	31.00	221	49.20	NM	0.98	30.3	649.9	0.98	0.0	---	328.9	NM	NM	---
09/28/18	42.80	221	57.50	NM	1.14	48.8	698.7	1.14	0.0	---	10.1	NM	NM	---
10/23/18	25.03	219	47.40	NM	0.93	23.3	722.0	0.93	0.0	---	2.6	NM	NM	---
12/04/18	42.05	200	5.10	NM	0.09	3.8	725.9	0.09	0.0	---	2.8	NM	NM	---
01/11/19	34.95	165	2.5 <sup>i</sup>	NM	0.04	1.3	727.2	0.04	0.0	---	0.3	NM	NM	---
02/22/19	29.05	200	2.5 <sup>i</sup>	NM	0.04	1.3	728.5	0.04	0.0	---	0.3	NM	NM	---
03/29/19	35.02	150	2.5 <sup>i</sup>	NM	0.03	1.2	729.7	0.03	0.0	---	0.4	NM	NM	---
04/26/19	28.11	144	2.5 <sup>i</sup>	NM	0.03	0.9	730.6	0.03	0.0	---	1.1	NM	NM	---
06/03/19	28.05	132	2.5 <sup>i</sup>	NM	0.03	0.8	731.4	0.03	0.0	---	1.0	NM	NM	---
07/11/19	30.24	125	54.7	NM	0.61	18.6	750.0	0.61	0.0	---	11.9	NM	NM	---
08/19/19	29.11	143	49.7	NM	0.64	18.6	768.5	0.64	0.0	---	16.4	NM	NM	---
09/19/19	28.07	141	37.1	NM	0.47	13.2	781.7	0.47	0.0	---	74.9	NM	NM	---
10/18/19	29.08	141	26.8	NM	0.34	9.9	791.6	0.34	0.0	---	33.5	NM	NM	---

**Table 2**  
**SVE System Mass Removal and Destruction Efficiency**  
**Remediation System Testing Technical Memorandum**  
**Whitney's Chevrolet Site**  
**123 West Pioneer Avenue, Montesano, Washington**

Date	Field Inputs				Mass Removal			Vapor Control Efficiency			Vapor Control Efficiency PID Screening			
	SVE Run Time Since Last Event <sup>a</sup> (days)	System Flow Rate to Carbon <sup>b</sup> (scfm)	Influent GRPH Conc. to Carbon <sup>c</sup> (µg/L)	Effluent GRPH Conc. <sup>d</sup> (µg/L)	GRPH Removal Rate <sup>e</sup> (lbs/day)	GRPH Removed During Period <sup>f</sup> (lbs)	Cumulative GRPH Removed <sup>g</sup> (lbs)	Mass Flow Rate In (lbs/day)	Mass Flow Rate Out (lbs/day)	Carbon Adsorption Control Efficiency <sup>h</sup> (%)	Inf-Carbon PID Reading (ppm)	Mid-Carbon PID Reading (ppm)	Post-Carbon PID Reading (ppm)	Carbon Adsorption Control Efficiency (%)
11/22/19	29.00	173	<b>27.2</b>	NM	0.42	12.2	803.8	0.42	0.0	---	21.9	NM	NM	---
12/20/19	29.08	132	<b>10.3</b>	NM	0.12	3.5	807.4	0.12	0.0	---	6.6	NM	NM	---
01/17/20	28.03	131	<b>2.5<sup>i</sup></b>	NM	0.03	0.8	808.2	0.03	0.0	---	NM	NM	NM	---
02/13/20	24.04	144	<b>2.05</b>	NM	0.03	0.6	808.8	0.03	0.0	---	0.9	NM	NM	---
03/20/20	35.94	135	<b>2.31</b>	NM	0.03	1.0	809.8	0.03	0.0	---	3.9	NM	NM	---
04/23/20	35.95	125	<b>7.71</b>	NM	0.09	3.1	812.9	0.09	0.0	---	2.1	NM	NM	---
05/18/20	22.10	151	<b>15.90</b>	NM	0.22	4.8	817.7	0.22	0.0	---	12.2	NM	NM	---
06/18/20	8.89	131	<b>2.5<sup>i</sup></b>	NM	0.03	0.3	818.0	0.03	0.0	---	22.1	NM	NM	---
07/16/20	28.04	136	<b>5.7</b>	NM	0.07	2.0	819.9	0.07	0.0	---	0.8	NM	NM	---
11/09/20	94.54	125	<b>2.5<sup>i</sup></b>	NM	0.03	2.7	822.6	0.03	0.0	---	1.6	NM	NM	---
12/15/20	36.00	118	<b>2.5<sup>i</sup></b>	NM	0.03	1.0	823.5	0.03	0.0	---	0.6	NM	NM	---
01/13/21	29.00	118	<b>2.5<sup>i</sup></b>	NM	0.03	0.8	824.3	0.03	0.0	---	2.8	NM	NM	---
02/08/21	26.00	119	<b>2.5<sup>i</sup></b>	NM	0.03	0.7	825.0	0.03	0.0	---	0.3	NM	NM	---
03/17/21	37.00	119	<b>2.5<sup>i</sup></b>	NM	0.03	1.0	826.0	0.03	0.0	---	0.5	NM	NM	---
04/14/21	28.00	176	<b>2.5<sup>i</sup></b>	NM	0.04	1.1	827.1	0.04	0.0	---	0.4	NM	NM	---
05/10/21	26.00	169	<b>2.5<sup>i</sup></b>	NM	0.04	1.0	828.1	0.04	0.0	---	0.6	NM	NM	---
06/16/21	37.00	135	<b>2.10</b>	NM	0.03	0.9	829.0	0.03	0.0	---	NM	NM	NM	---
08/04/21	40.00	168	<b>2.5<sup>i</sup></b>	NM	0.04	1.5	830.5	0.04	0.0	---	8.4	NM	NM	---
09/29/21	52.70	211	<b>34.5</b>	NM	0.64	33.8	864.3	0.64	0.0	---	0.4	NM	NM	---
10/22/21	23.00	207	<b>13.6</b>	NM	0.25	5.8	870.1	0.25	0.0	--	0.9	NM	NM	--
11/02/21	8.80	205	<b>2.5<sup>i</sup></b>	NM	0.05	0.4	870.5	0.05	0.0	---	0.4	NM	NM	---
12/07/21	13.20	179	<b>2.5<sup>i</sup></b>	NM	0.04	0.5	871.0	0.04	0.0	---	0.1	NM	NM	---
01/05/22	22.60	144	<b>2.5<sup>i</sup></b>	NM	0.03	0.7	871.8	0.03	0.0	---	0.0	NM	NM	--
02/21/22	46.90	134	<b>2.5<sup>i</sup></b>	NM	0.03	1.4	873.2	0.03	0.0	--	0.0	NM	NM	---
03/22/22	29.00	129	<b>8.85</b>	NM	0.03	0.8	874.0	0.03	0.0	--	0.2	NM	NM	---
04/12/22	21.00	137	<b>2.5<sup>i</sup></b>	NM	0.03	0.6	874.7	0.03	0.0	--	0.5	NM	NM	---
05/13/22	34.00	129	<b>6.17</b>	NM	0.03	1.0	875.7	0.03	0.0	--	0.2	NM	NM	---
06/28/22	43.00	129	<b>2.5<sup>i</sup></b>	NM	0.03	1.2	876.9	0.03	0.0	--	0.2	NM	NM	---
07/28/22	30.00	128	<b>13.8</b>	NM	0.03	0.9	877.8	0.03	0.0	--	8.8	NM	NM	---
08/22/22	25.00	128	<b>2.5<sup>i</sup></b>	NM	0.03	0.7	878.5	0.03	0.0	--	1.1	NM	NM	---

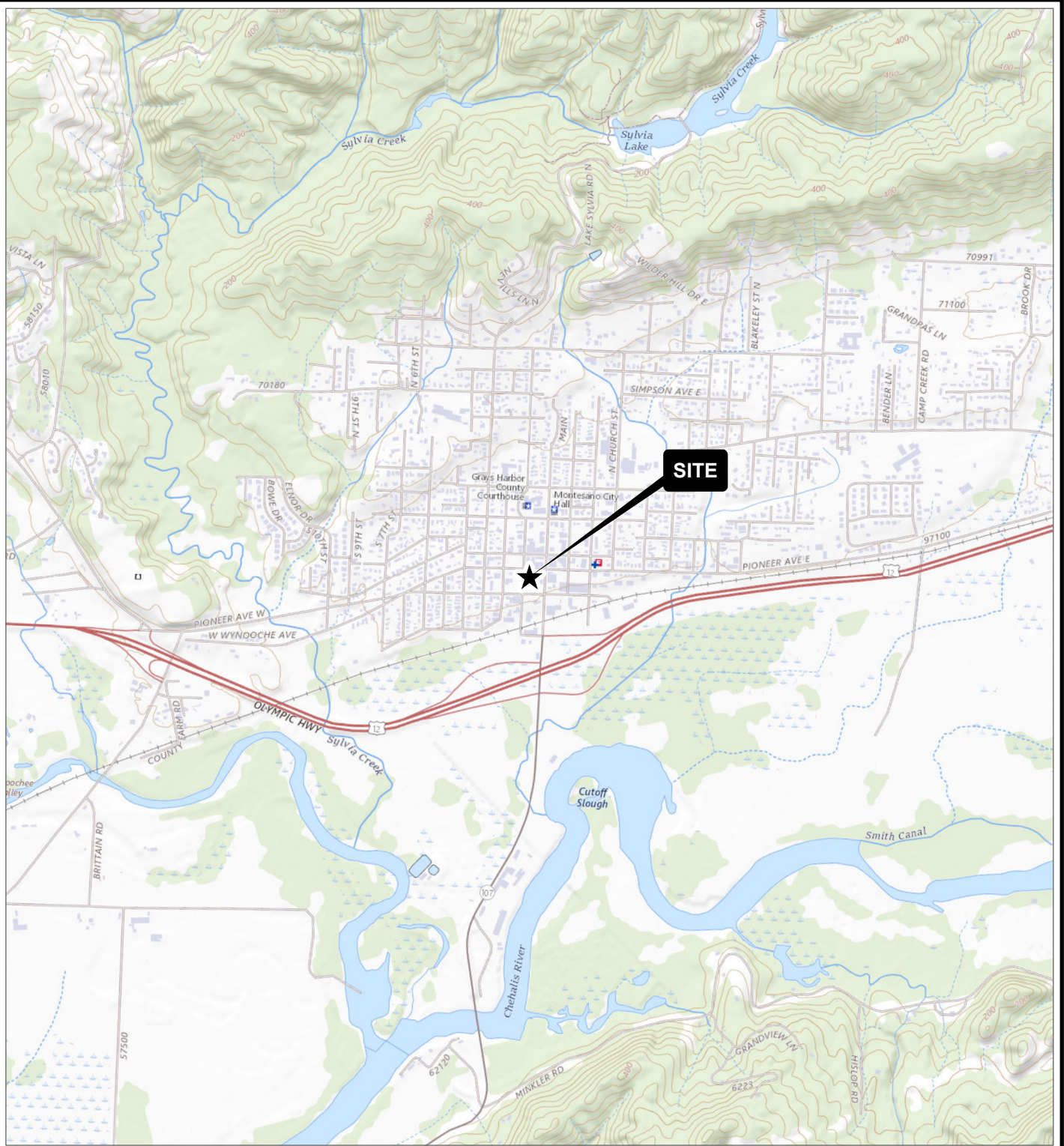
Notes:

- Bold** Bold result exceeds the laboratory method detection limit.
- < Result is less than the laboratory method detection limit.
- Indicates sample was not analyzed for this analyte.
- a Days of SVE operation since last visit.
- b Collected from SVE-TOT location, post dilution.
- c Collected from AIR-INF location, post dilution.
- d Collected from AIR-EFF location, effluent carbon.
- e Calculated as: Removal rate (lbs/day) = [(flow rate(scfm)\*1440 (min/day))\*[28.3(L/Ft3)\*Inf. Conc (µg/L)]]/454,000,000 µg/lb
- f Calculated as: [GRPH Removal Rate (lbs/day) \* Time Since Last Event (days)]
- g Calculated as: [Cumulative GRPH Removed (lbs) + GRPH Removed During Period (lbs)]
- h Calculated as: [(Mass flow rate In - Mass Flow rate Out)/(Mass flow rate in)] \* 100
- i GRPH was not identified in the influent sample at concentrations above the sample quantitation limit during this O&M event. A proxy value of

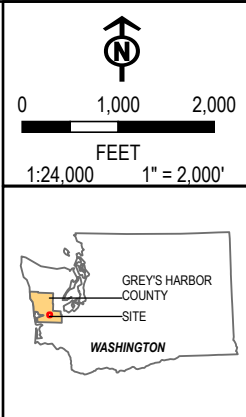
- scfm Standard cubic feet per minute.
- GRPH Gasoline-range petroleum hydrocarbons.
- µg/L Micrograms per liter.
- lbs Pounds.
- % Percent.
- ppm Parts per million.
- PID Photoionization detector.
- NM Not measured.


## Figures

COORDINATE SYSTEM: NAD 1983 2011 STATEPLANE WASHINGTON SOUTH FIPS 4602 FT US; MAP ROTATION: 0  
 - SAVED BY: S RAY ON 11/17/2022, 11:44:26 AM; FILE PATH: T:\WHITNEY\_CHEVROLET\WHITNEY\_CHEVROLET\015347\_WHITNEY\_CHEVROLET\TECHNICAL MEMORANDUM.APRX; LAYOUT NAME: FIG 1 - GVM

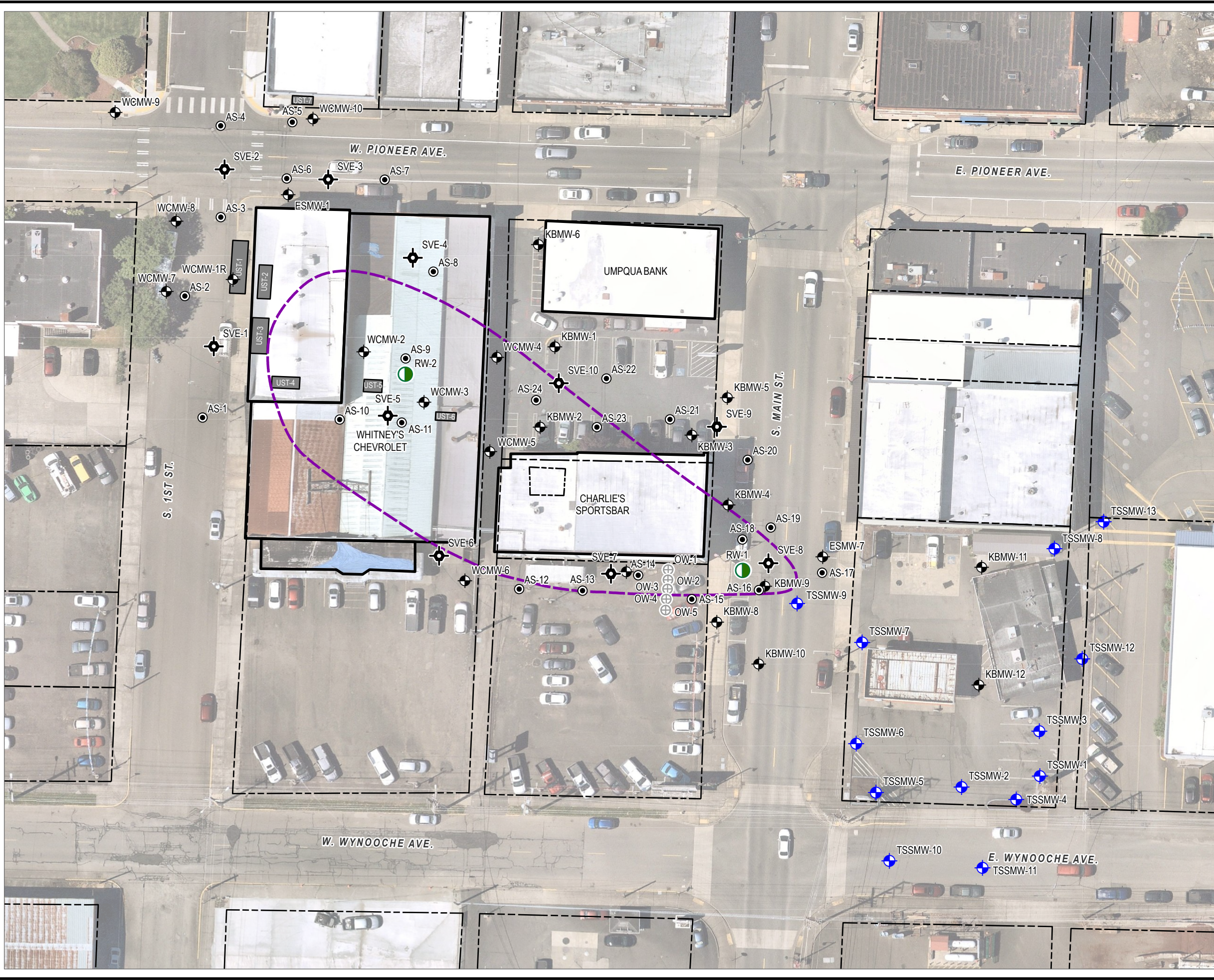


BASE MAP: USGS COLOR ORTHO IMAGERY  
 DATA SOURCES: TRC



PROJECT:		<b>WHITNEY'S CHEVROLET 123 WEST PIONEER AVENUE MONTESANO, WASHINGTON</b>	
TITLE:		<b>GENERAL VICINITY MAP TECHNICAL MEMORANDUM</b>	
DRAWN BY:	S. RAY	PROJ. NO.:	015347.0021.0000
CHECKED BY:	M. ESPARRA	<b>FIGURE 1</b>	
APPROVED BY:	M. ESPARRA		
DATE:	NOVEMBER 2022	 1180 NW MAPLE STREET, SUITE 310 ISSAQUAH, WA 98027 PHONE: 425.395.0010	
FILE:		TECHNICAL MEMORANDUM	

Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet; Map Rotation: 0  
 - Saved By: SRAY on 11/17/2022, 11:44:26 AM; File Path: T:\Whitney\_Chevrolet\Whitney\_Chevrolet\016347\_Whitney\_Chevrolet\_Montesano\016347\_Whitney\_Chevrolet\_Montesano\016347\_Whitney\_Chevrolet\_Montesano\016347\_Whitney\_Chevrolet\_Montesano.aprx; Layout Name: Fig 2 - Site Rep




- AIR SPARGE WELL
- ⊕ PILOT TESTING OBSERVATION WELL (NOT MONITORED)
- RECOVERY WELL
- ⊗ SOIL VAPOR EXTRACTION WELL
- ⊕ GROUNDWATER MONITORING WELL ASSOCIATED WITH TONY'S SHORT STOP SITE
- ⊕ GROUNDWATER MONITORING WELL ASSOCIATED WITH WHITNEY'S CHEVROLET SITE
- - - APPROXIMATE PARCEL BOUNDARY
- - - APPROXIMATE SITE BOUNDARY
- ▭ BUILDING OUTLINE
- FORMER UNDERGROUND STORAGE TANK LOCATION

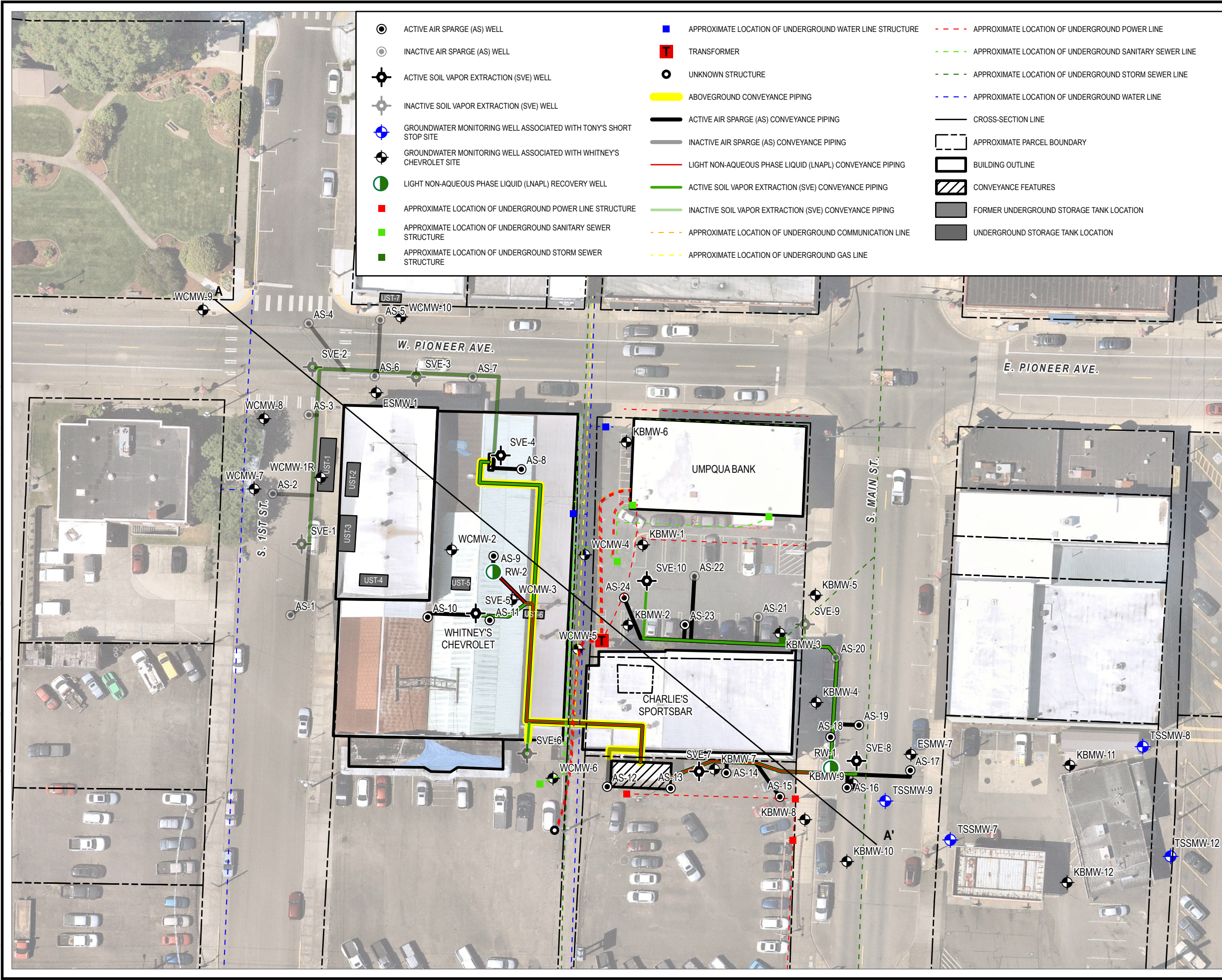
BASE MAP: NEARMAP (2021).  
 DATA SOURCES: TRC, GRAYS HARBOR (2021).



1:600  
 1" = 50'  
 0 50 100 FEET

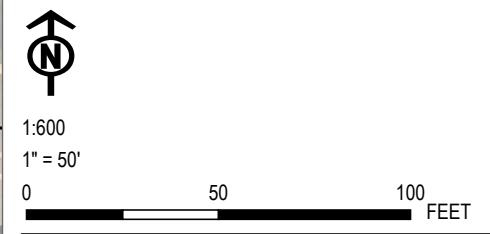
PROJECT:		<b>WHITNEY'S CHEVROLET 123 WEST PIONEER AVENUE MONTESANO, WASHINGTON</b>	
TITLE: <b>SITE REPRESENTATION WITH SITE BOUNDARY AND MONITORING WELL LOCATIONS TECHNICAL MEMORANDUM</b>			
DRAWN BY:	S. RAY	PROJ. NO.:	015347.0021.0000
CHECKED BY:	M. ESPARRA	<b>FIGURE 2</b>	
APPROVED BY:	M. ESPARRA		
DATE:	NOVEMBER 2022		
		1180 NW MAPLE STREET, SUITE 310 ISSAQUAH, WA 98027 PHONE: 425.395.0010	
FILE:		Technical Memorandum.aprx	


Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet; Map Rotation: 0  
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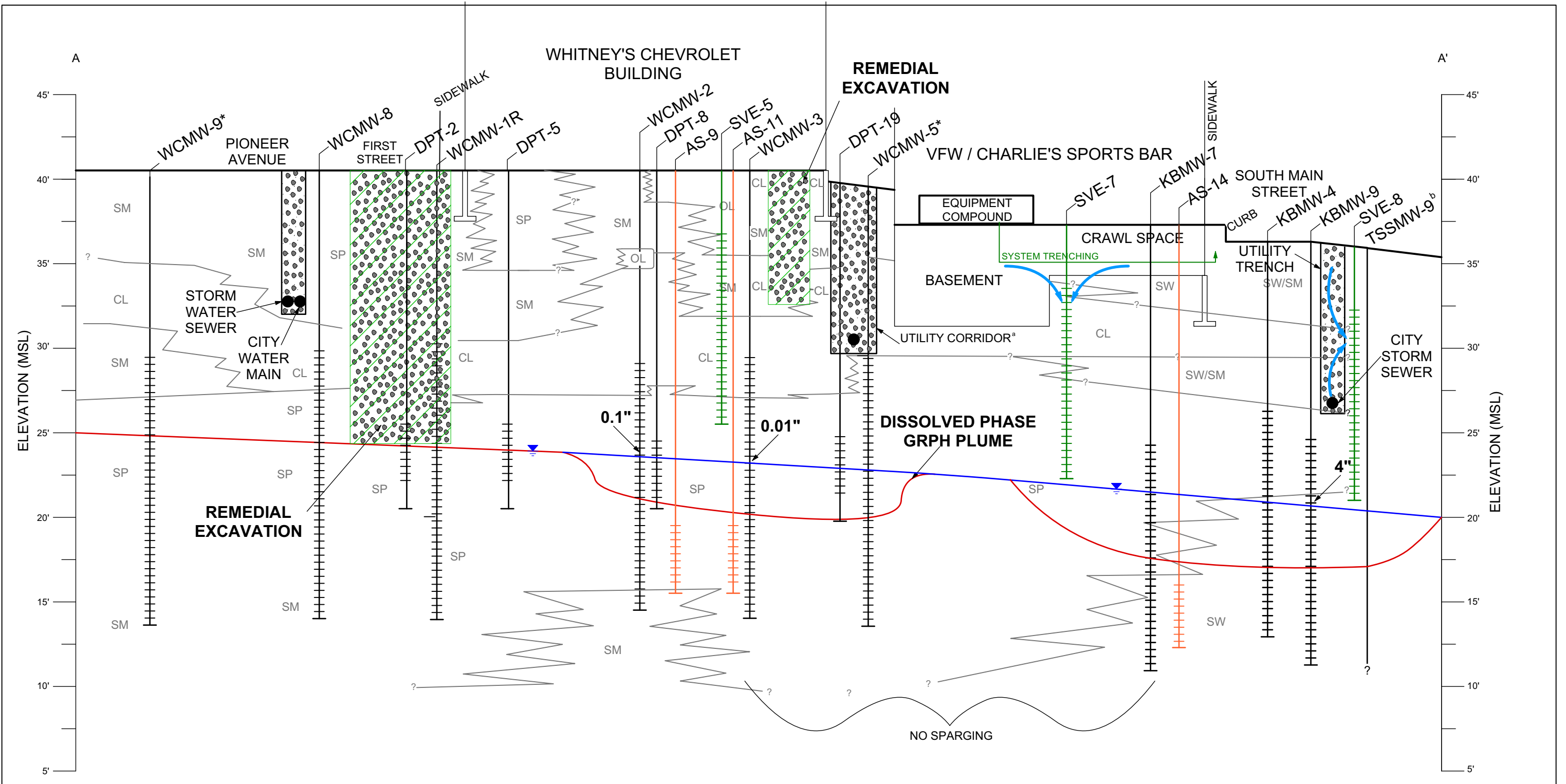


<ul style="list-style-type: none"> <li>● ACTIVE AIR SPARGE (AS) WELL</li> <li>○ INACTIVE AIR SPARGE (AS) WELL</li> <li>⊕ ACTIVE SOIL VAPOR EXTRACTION (SVE) WELL</li> <li>⊖ INACTIVE SOIL VAPOR EXTRACTION (SVE) WELL</li> <li>⊕ GROUNDWATER MONITORING WELL ASSOCIATED WITH TONY'S SHORT STOP SITE</li> <li>⊖ GROUNDWATER MONITORING WELL ASSOCIATED WITH WHITNEY'S CHEVROLET SITE</li> <li>● LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) RECOVERY WELL</li> <li>■ APPROXIMATE LOCATION OF UNDERGROUND POWER LINE STRUCTURE</li> <li>■ APPROXIMATE LOCATION OF UNDERGROUND SANITARY SEWER STRUCTURE</li> <li>■ APPROXIMATE LOCATION OF UNDERGROUND STORM SEWER STRUCTURE</li> </ul>	<ul style="list-style-type: none"> <li>■ APPROXIMATE LOCATION OF UNDERGROUND WATER LINE STRUCTURE</li> <li>■ TRANSFORMER</li> <li>○ UNKNOWN STRUCTURE</li> <li>— ABOVEGROUND CONVEYANCE PIPING</li> <li>— ACTIVE AIR SPARGE (AS) CONVEYANCE PIPING</li> <li>— INACTIVE AIR SPARGE (AS) CONVEYANCE PIPING</li> <li>— LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) CONVEYANCE PIPING</li> <li>— ACTIVE SOIL VAPOR EXTRACTION (SVE) CONVEYANCE PIPING</li> <li>— INACTIVE SOIL VAPOR EXTRACTION (SVE) CONVEYANCE PIPING</li> <li>— APPROXIMATE LOCATION OF UNDERGROUND COMMUNICATION LINE</li> <li>— APPROXIMATE LOCATION OF UNDERGROUND GAS LINE</li> </ul>	<ul style="list-style-type: none"> <li>--- APPROXIMATE LOCATION OF UNDERGROUND POWER LINE</li> <li>--- APPROXIMATE LOCATION OF UNDERGROUND SANITARY SEWER LINE</li> <li>--- APPROXIMATE LOCATION OF UNDERGROUND STORM SEWER LINE</li> <li>--- APPROXIMATE LOCATION OF UNDERGROUND WATER LINE</li> <li>— CROSS-SECTION LINE</li> <li>□ APPROXIMATE PARCEL BOUNDARY</li> <li>□ BUILDING OUTLINE</li> <li>▨ CONVEYANCE FEATURES</li> <li>■ FORMER UNDERGROUND STORAGE TANK LOCATION</li> <li>■ UNDERGROUND STORAGE TANK LOCATION</li> </ul>
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BASE MAP: NEARMAP (2021).  
 DATA SOURCES: TRC, GRAYS HARBOR (2021).



PROJECT:		<b>WHITNEY'S CHEVROLET 123 WEST PIONEER AVENUE MONTESANO, WASHINGTON</b>	
TITLE:		<b>SITE REPRESENTATION WITH AS/SVE/LNAPL SYSTEM LAYOUT TECHNICAL MEMORANDUM</b>	
DRAWN BY:	S. RAY	PROJ. NO.:	015347.0021.0000
CHECKED BY:	M. ESPARRA	<b>FIGURE 3</b>	
APPROVED BY:	M. ESPARRA		
DATE:	NOVEMBER 2022		
		1180 NW MAPLE STREET, SUITE 310 ISSAQUAH, WA 98027 PHONE: 425.395.0010	
FILE:	Technical Memorandum.aprx		

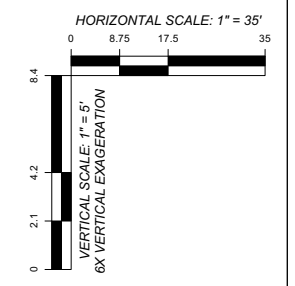


**NOTES:**

- GENERAL HYDRAULIC GRADIENT
- a UTILITIES INCLUDE WATER, SEWER, ELECTRIC & GAS, LOCATIONS NOT SURVEYED
- b BORING LOG NOT AVAILABLE
- \* PROJECTED ONTO CROSS-SECTION
- ESTIMATED EXTENT OF SHEEN WITH MEASURABLE LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) THICKNESS
- POTENTIAL ROUTES OF PREFERENTIAL PATHWAYS

GW	Well Graded Gravel	MSL	Mean Sea Level
SW	Well Graded Sands with Gravel		
SP	Poorly-Graded Sands with Gravel		
SW/SM	Well Graded Sand with Silt		
SM	Silty Sands		
ML	Silt with Sand		
CL	Clay with Silt, Lean Clay		
OL	Organic Silts and Clays		

(Using USCS and ASTM D2488 Soil Descriptions)

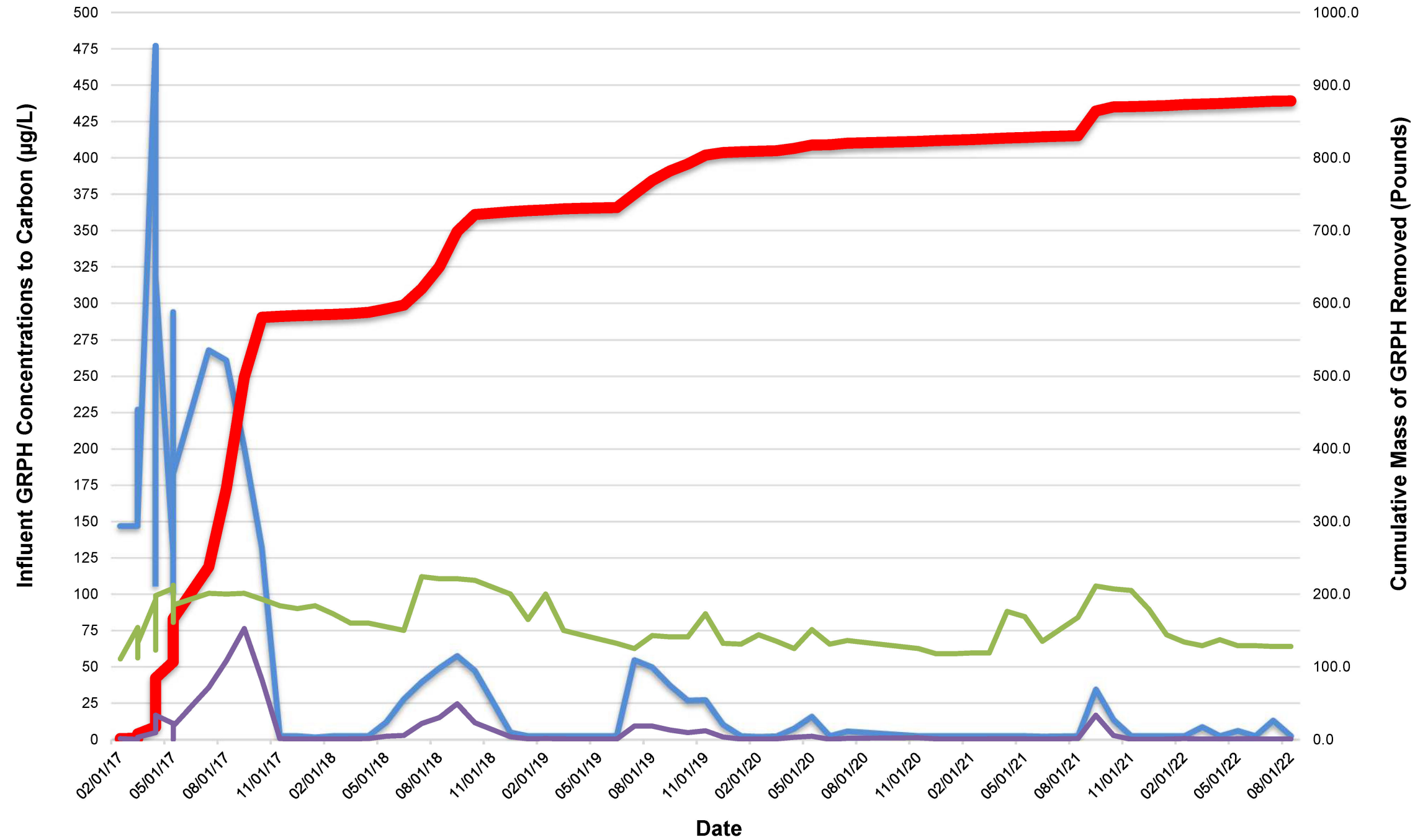


1180 NW MAPLE ST, SUITE 310  
 ISSAQUAH, WA 98027  
 WWW.TRCCOMPANIES.COM  
 425.395.0010

**FIGURE 4**  
 CROSS-SECTION A - A'

<b>REPORT</b> TECHNICAL MEMORANDUM	<b>PREPARED FOR</b> WHITNEY'S CHEVROLET
<b>LOCATION</b> MONTESANO, WASHINGTON	<b>PROJECT NUMBER</b> 015347.0021
<b>DATE</b> ..... 10/14/22	<b>DRAWN BY</b> ..... AM
<b>REVIEWED BY</b> ..... ME	

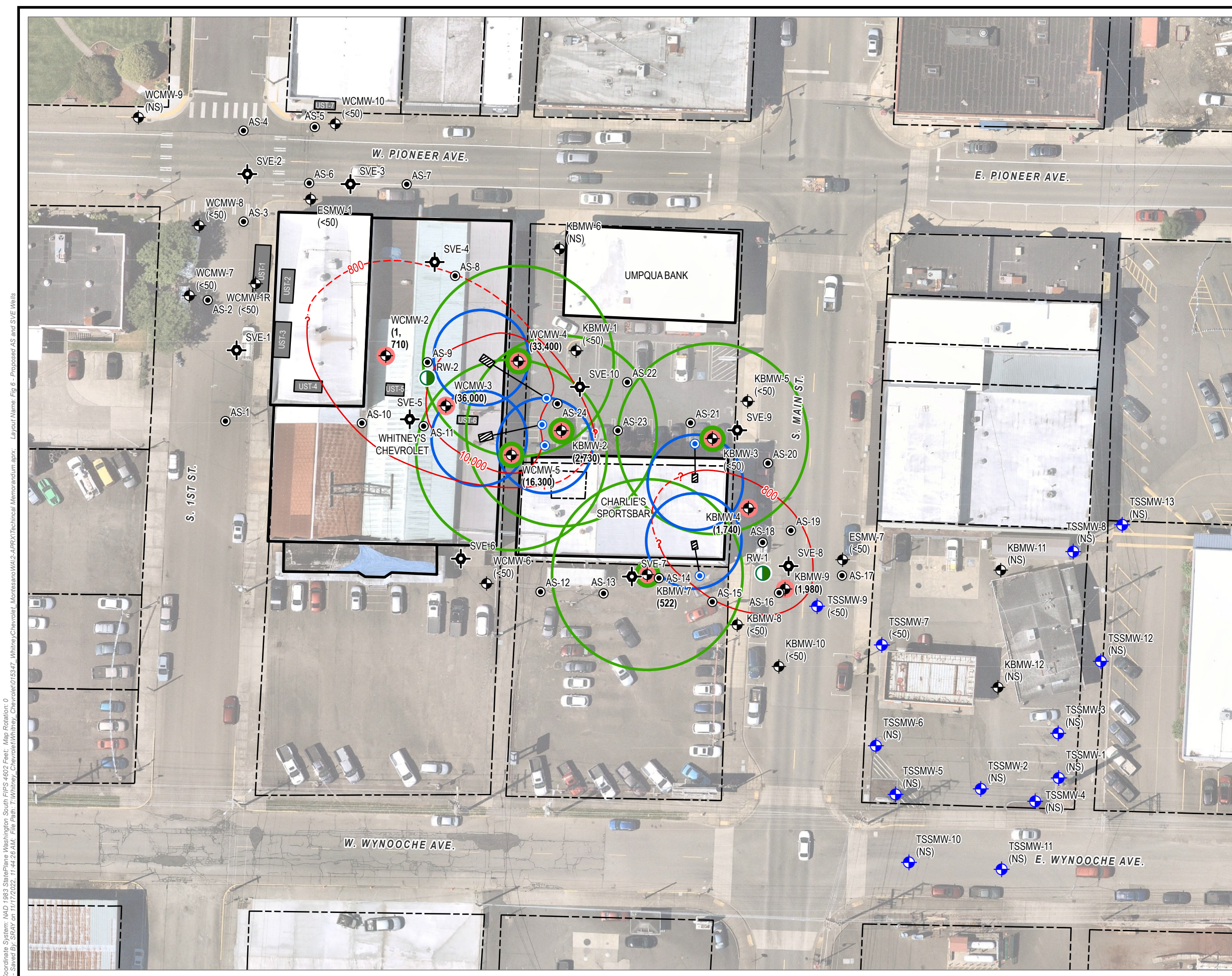
### Air GRPH Concentrations and Cumulative GRPH Mass Removed



— Inflow GRPH Conc. to Carbon (µg/L)    
 — Cumulative GRPH Removed (lbs)    
 — System Flow Rate to Carbon (scfm)    
 — GRPH Removed During Period (lbs)

**Notes:**  
 GRPH - Gasoline-range petroleum hydrocarbons  
 µg/L - milligrams per liter  
 lbs - Pounds  
 scfm - Standard cubic feet per minute

PROJECT: <b>WHITNEY'S CHEVROLET 123 WEST PIONEER AVENUE MONTESANO, WASHINGTON</b>	
TITLE: <b>GROUNDWATER GRPH CONCENTRATIONS AND CUMULATIVE GRPH MASS REMOVED TECHNICAL MEMORANDUM</b>	
DRAWN BY: S. RAY	PROJ. NO.: 015347.0021.0000
CHECKED BY: M. ESPARRA	<b>FIGURE 5</b>
APPROVED BY: M. ESPARRA	
DATE: NOVEMBER 2022	
<span style="font-size: small; vertical-align: middle;">1180 NW MAPLE STREET, SUITE 310 ISSAQUAH, WA 98027 PHONE: 425.395.0010</span>	
FILE: Technical Memorandum.aprx	



- AIR SPARGE WELL
- ⊕ GROUNDWATER MONITORING WELL ASSOCIATED WITH TONY'S SHORT STOP SITE
- ⊕ GROUNDWATER MONITORING WELL ASSOCIATED WITH WHITNEY'S CHEVROLET SITE
- GROUNDWATER SAMPLE CONTAINING GASOLINE-RANGE PETROLEUM HYDROCARBONS (GRPH) CONCENTRATION GREATER THAN CLEANUP LEVEL OF 800 µg/L
- PROPOSED AIR SPARGE WELL
- ⊕ PROPOSED ANGLED AIR SPARGE WELL
- ⊕ PROPOSED SOIL VAPOR EXTRACTION WELL
- RECOVERY WELL
- ⊕ SOIL VAPOR EXTRACTION WELL
- ~ GRPH CONCENTRATION (µg/L) - DASHED WHERE INFERRED, QUERIED WHERE UNCERTAIN
- - - APPROXIMATE PARCEL BOUNDARY
- ▭ BUILDING OUTLINE
- ▭ FORMER UNDERGROUND STORAGE TANK LOCATION
- 50' SOIL VAPOR EXTRACTION RADIUS OF INFLUENCE
- 25' AIR SPARGE RADIUS OF INFLUENCE

NOTES:  
 (2,730) = GRPH CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER µg/L, AUGUST 2022.  
 (<50) = GRPH RESULT IS LESS THAN THE METHOD REPORTING LIMIT SHOWN.  
 (NS) = NOT SCHEDULED FOR SAMPLING DURING THIS EVENT.

BASE MAP: NEARMAP (2021).  
 DATA SOURCES: TRC, GRAYS HARBOR (2021).



PROJECT:	<b>WHITNEY'S CHEVROLET 123 WEST PIONEER AVENUE MONTESANO, WASHINGTON</b>	
TITLE:	<b>PROPOSED AIR SPARGE AND SOIL VAPOR EXTRACTION WELLS TECHNICAL MEMORANDUM</b>	
DRAWN BY:	S. RAY	PROJ. NO.: 015347.0021.0000
CHECKED BY:	M. ESPARRA	<b>FIGURE 6</b>
APPROVED BY:	M. ESPARRA	
DATE:	NOVEMBER 2022	



1180 NW MAPLE STREET, SUITE 310  
 ISSAQUAH, WA 98027  
 PHONE: 425.395.0010

FILE: Technical Memorandum.aprx

Coordinate System: NAD 1983 StatePlane Washington South FIPS 4602 Feet; Map Rotation: 0  
 - Saved By: SRAY on 11/17/2022, 11:44:26 AM; File Path: T:\Whitney\_Chevrolet\Whitney\_Chevrolet\015347\_WhitneyChevrolet\_Montesano\VA12-APRX\Technical\_Memorandum.aprx; Layout Name: Fig 6 - Proposed AS and SVE Wells

**Attachment A**  
**Laboratory Analytical Reports**



**TRC**

Sean Trimble  
1180 NW Maple St. Ste 310  
Issaquah, WA 98074

**RE: Whitney's Chevrolet**  
**Work Order Number: 2108100**

August 11, 2021

**Attention Sean Trimble:**

Fremont Analytical, Inc. received 8 sample(s) on 8/6/2021 for the analyses presented in the following report.

***Gasoline by NWTPH-Gx***  
***Volatile Organic Compounds by EPA Method 8260D***

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes  
Project Manager

**CLIENT:** TRC  
**Project:** Whitney's Chevrolet  
**Work Order:** 2108100

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2108100-001	SVE-4-0804	08/04/2021 3:20 PM	08/06/2021 9:08 AM
2108100-002	SVE-5-0804	08/04/2021 3:07 PM	08/06/2021 9:08 AM
2108100-003	SVE-6-0804	08/04/2021 3:50 PM	08/06/2021 9:08 AM
2108100-004	SVE-7-0804	08/04/2021 3:44 PM	08/06/2021 9:08 AM
2108100-005	SVE-8-0804	08/04/2021 4:23 PM	08/06/2021 9:08 AM
2108100-006	SVE-9-0804	08/04/2021 3:27 PM	08/06/2021 9:08 AM
2108100-007	SVE-10-0804	08/04/2021 3:33 PM	08/06/2021 9:08 AM
2108100-008	INF-0804	08/04/2021 2:18 PM	08/06/2021 9:08 AM

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

---

**CLIENT:** TRC  
**Project:** Whitney's Chevrolet

---

**I. SAMPLE RECEIPT:**

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

**II. GENERAL REPORTING COMMENTS:**

Air samples are reported in ug/L.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

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

8/23/2021: Revision 1 includes a sample ID change per client request.

### Qualifiers:

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

### Acronyms:

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



**Client:** TRC

**Collection Date:** 8/4/2021 3:20:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-001

**Matrix:** Air

**Client Sample ID:** SVE-4-0804

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

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Dichlorodifluoromethane	ND	0.125	H	µg/L	1	8/9/2021 10:13:37 AM
Chloromethane	ND	0.0750	H	µg/L	1	8/9/2021 10:13:37 AM
Vinyl chloride	ND	0.0350	H	µg/L	1	8/9/2021 10:13:37 AM
Bromomethane	ND	0.120	H	µg/L	1	8/9/2021 10:13:37 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Chloroethane	ND	0.100	H	µg/L	1	8/9/2021 10:13:37 AM
1,1-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Acetone	ND	0.600	H	µg/L	1	8/9/2021 10:13:37 AM
Methylene chloride	ND	0.0750	H	µg/L	1	8/9/2021 10:13:37 AM
trans-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,1-Dichloroethane	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
cis-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
(MEK) 2-Butanone	ND	0.150	H	µg/L	1	8/9/2021 10:13:37 AM
Chloroform	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400	H	µg/L	1	8/9/2021 10:13:37 AM
1,1-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Carbon tetrachloride	ND	0.0750	H	µg/L	1	8/9/2021 10:13:37 AM
1,2-Dichloroethane (EDC)	ND	0.0400	H	µg/L	1	8/9/2021 10:13:37 AM
Benzene	ND	0.0440	H	µg/L	1	8/9/2021 10:13:37 AM
Trichloroethene (TCE)	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,2-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Bromodichloromethane	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Dibromomethane	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
cis-1,3-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Toluene	ND	0.0750	H	µg/L	1	8/9/2021 10:13:37 AM
trans-1,3-Dichloropropylene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	H	µg/L	1	8/9/2021 10:13:37 AM
1,1,2-Trichloroethane	ND	0.0350	H	µg/L	1	8/9/2021 10:13:37 AM
1,3-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Tetrachloroethene (PCE)	ND	0.0400	H	µg/L	1	8/9/2021 10:13:37 AM
Dibromochloromethane	ND	0.100	H	µg/L	1	8/9/2021 10:13:37 AM
1,2-Dibromoethane (EDB)	ND	0.0300	H	µg/L	1	8/9/2021 10:13:37 AM
2-Hexanone	ND	0.100	H	µg/L	1	8/9/2021 10:13:37 AM
Chlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,1,1,2-Tetrachloroethane	ND	0.0300	H	µg/L	1	8/9/2021 10:13:37 AM
Ethylbenzene	ND	0.0400	H	µg/L	1	8/9/2021 10:13:37 AM
m,p-Xylene	ND	0.100	H	µg/L	1	8/9/2021 10:13:37 AM
o-Xylene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM



**Client:** TRC

**Collection Date:** 8/4/2021 3:20:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-001

**Matrix:** Air

**Client Sample ID:** SVE-4-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Styrene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Isopropylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Bromoform	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,1,2,2-Tetrachloroethane	ND	0.0400	H	µg/L	1	8/9/2021 10:13:37 AM
n-Propylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Bromobenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,3,5-Trimethylbenzene	ND	0.0250	H	µg/L	1	8/9/2021 10:13:37 AM
2-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
4-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
tert-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,2,3-Trichloropropane	ND	0.0400	H	µg/L	1	8/9/2021 10:13:37 AM
1,2,4-Trichlorobenzene	ND	0.0750	H	µg/L	1	8/9/2021 10:13:37 AM
sec-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
4-Isopropyltoluene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,3-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,4-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
n-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,2-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
1,2-Dibromo-3-chloropropane	ND	0.100	H	µg/L	1	8/9/2021 10:13:37 AM
1,2,4-Trimethylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Hexachlorobutadiene	ND	0.0500	H	µg/L	1	8/9/2021 10:13:37 AM
Naphthalene	ND	0.125	H	µg/L	1	8/9/2021 10:13:37 AM
1,2,3-Trichlorobenzene	ND	0.0700	H	µg/L	1	8/9/2021 10:13:37 AM
Surr: Dibromofluoromethane	100	80 - 121	H	%Rec	1	8/9/2021 10:13:37 AM
Surr: Toluene-d8	101	80 - 120	H	%Rec	1	8/9/2021 10:13:37 AM
Surr: 1-Bromo-4-fluorobenzene	99.4	80 - 120	H	%Rec	1	8/9/2021 10:13:37 AM

**Gasoline by NWTPH-Gx**

Batch ID: 33279

Analyst: KT

Gasoline	ND	5.00	H	µg/L	1	8/9/2021 10:13:37 AM
Surr: 4-Bromofluorobenzene	100	65 - 135	H	%Rec	1	8/9/2021 10:13:37 AM
Surr: Toluene-d8	101	65 - 135	H	%Rec	1	8/9/2021 10:13:37 AM



**Client:** TRC

**Collection Date:** 8/4/2021 3:07:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-002

**Matrix:** Air

**Client Sample ID:** SVE-5-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Dichlorodifluoromethane	ND	0.125	H	µg/L	1	8/9/2021 11:13:54 AM
Chloromethane	ND	0.0750	H	µg/L	1	8/9/2021 11:13:54 AM
Vinyl chloride	ND	0.0350	H	µg/L	1	8/9/2021 11:13:54 AM
Bromomethane	ND	0.120	H	µg/L	1	8/9/2021 11:13:54 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Chloroethane	ND	0.100	H	µg/L	1	8/9/2021 11:13:54 AM
1,1-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Acetone	ND	0.600	H	µg/L	1	8/9/2021 11:13:54 AM
Methylene chloride	0.0898	0.0750	H	µg/L	1	8/9/2021 11:13:54 AM
trans-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Methyl tert-butyl ether (MTBE)	0.0794	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,1-Dichloroethane	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
cis-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
(MEK) 2-Butanone	0.324	0.150	H	µg/L	1	8/9/2021 11:13:54 AM
Chloroform	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400	H	µg/L	1	8/9/2021 11:13:54 AM
1,1-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Carbon tetrachloride	ND	0.0750	H	µg/L	1	8/9/2021 11:13:54 AM
1,2-Dichloroethane (EDC)	ND	0.0400	H	µg/L	1	8/9/2021 11:13:54 AM
Benzene	ND	0.0440	H	µg/L	1	8/9/2021 11:13:54 AM
Trichloroethene (TCE)	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,2-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Bromodichloromethane	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Dibromomethane	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
cis-1,3-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Toluene	ND	0.0750	H	µg/L	1	8/9/2021 11:13:54 AM
trans-1,3-Dichloropropylene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	H	µg/L	1	8/9/2021 11:13:54 AM
1,1,2-Trichloroethane	ND	0.0350	H	µg/L	1	8/9/2021 11:13:54 AM
1,3-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Tetrachloroethene (PCE)	0.0468	0.0400	H	µg/L	1	8/9/2021 11:13:54 AM
Dibromochloromethane	ND	0.100	H	µg/L	1	8/9/2021 11:13:54 AM
1,2-Dibromoethane (EDB)	ND	0.0300	H	µg/L	1	8/9/2021 11:13:54 AM
2-Hexanone	ND	0.100	H	µg/L	1	8/9/2021 11:13:54 AM
Chlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,1,1,2-Tetrachloroethane	ND	0.0300	H	µg/L	1	8/9/2021 11:13:54 AM
Ethylbenzene	ND	0.0400	H	µg/L	1	8/9/2021 11:13:54 AM
m,p-Xylene	ND	0.100	H	µg/L	1	8/9/2021 11:13:54 AM
o-Xylene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM



**Client:** TRC

**Collection Date:** 8/4/2021 3:07:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-002

**Matrix:** Air

**Client Sample ID:** SVE-5-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Styrene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Isopropylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Bromoform	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,1,2,2-Tetrachloroethane	ND	0.0400	H	µg/L	1	8/9/2021 11:13:54 AM
n-Propylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Bromobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,3,5-Trimethylbenzene	ND	0.0250	H	µg/L	1	8/9/2021 11:13:54 AM
2-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
4-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
tert-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,2,3-Trichloropropane	ND	0.0400	H	µg/L	1	8/9/2021 11:13:54 AM
1,2,4-Trichlorobenzene	ND	0.0750	H	µg/L	1	8/9/2021 11:13:54 AM
sec-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
4-Isopropyltoluene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,3-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,4-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
n-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,2-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
1,2-Dibromo-3-chloropropane	ND	0.100	H	µg/L	1	8/9/2021 11:13:54 AM
1,2,4-Trimethylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Hexachlorobutadiene	ND	0.0500	H	µg/L	1	8/9/2021 11:13:54 AM
Naphthalene	ND	0.125	H	µg/L	1	8/9/2021 11:13:54 AM
1,2,3-Trichlorobenzene	ND	0.0700	H	µg/L	1	8/9/2021 11:13:54 AM
Surr: Dibromofluoromethane	101	80 - 121	H	%Rec	1	8/9/2021 11:13:54 AM
Surr: Toluene-d8	101	80 - 120	H	%Rec	1	8/9/2021 11:13:54 AM
Surr: 1-Bromo-4-fluorobenzene	98.5	80 - 120	H	%Rec	1	8/9/2021 11:13:54 AM

**Gasoline by NWTPH-Gx**

Batch ID: 33279

Analyst: KT

Gasoline	ND	5.00	H	µg/L	1	8/9/2021 11:13:54 AM
Surr: 4-Bromofluorobenzene	99.2	65 - 135	H	%Rec	1	8/9/2021 11:13:54 AM
Surr: Toluene-d8	102	65 - 135	H	%Rec	1	8/9/2021 11:13:54 AM



**Client:** TRC  
**Project:** Whitney's Chevrolet  
**Lab ID:** 2108100-003  
**Client Sample ID:** SVE-6-0804

**Collection Date:** 8/4/2021 3:50:00 PM

**Matrix:** Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Dichlorodifluoromethane	ND	0.125	H	µg/L	1	8/9/2021 11:44:02 AM
Chloromethane	ND	0.0750	H	µg/L	1	8/9/2021 11:44:02 AM
Vinyl chloride	ND	0.0350	H	µg/L	1	8/9/2021 11:44:02 AM
Bromomethane	ND	0.120	H	µg/L	1	8/9/2021 11:44:02 AM
Trichlorofluoromethane (CFC-11)	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Chloroethane	ND	0.100	H	µg/L	1	8/9/2021 11:44:02 AM
1,1-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Acetone	ND	0.600	H	µg/L	1	8/9/2021 11:44:02 AM
Methylene chloride	ND	0.0750	H	µg/L	1	8/9/2021 11:44:02 AM
trans-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,1-Dichloroethane	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
cis-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
(MEK) 2-Butanone	ND	0.150	H	µg/L	1	8/9/2021 11:44:02 AM
Chloroform	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,1,1-Trichloroethane (TCA)	ND	0.0400	H	µg/L	1	8/9/2021 11:44:02 AM
1,1-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Carbon tetrachloride	ND	0.0750	H	µg/L	1	8/9/2021 11:44:02 AM
1,2-Dichloroethane (EDC)	ND	0.0400	H	µg/L	1	8/9/2021 11:44:02 AM
Benzene	ND	0.0440	H	µg/L	1	8/9/2021 11:44:02 AM
Trichloroethene (TCE)	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,2-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Bromodichloromethane	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Dibromomethane	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
cis-1,3-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Toluene	ND	0.0750	H	µg/L	1	8/9/2021 11:44:02 AM
trans-1,3-Dichloropropylene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	H	µg/L	1	8/9/2021 11:44:02 AM
1,1,2-Trichloroethane	ND	0.0350	H	µg/L	1	8/9/2021 11:44:02 AM
1,3-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Tetrachloroethene (PCE)	ND	0.0400	H	µg/L	1	8/9/2021 11:44:02 AM
Dibromochloromethane	ND	0.100	H	µg/L	1	8/9/2021 11:44:02 AM
1,2-Dibromoethane (EDB)	ND	0.0300	H	µg/L	1	8/9/2021 11:44:02 AM
2-Hexanone	ND	0.100	H	µg/L	1	8/9/2021 11:44:02 AM
Chlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,1,1,2-Tetrachloroethane	ND	0.0300	H	µg/L	1	8/9/2021 11:44:02 AM
Ethylbenzene	ND	0.0400	H	µg/L	1	8/9/2021 11:44:02 AM
m,p-Xylene	ND	0.100	H	µg/L	1	8/9/2021 11:44:02 AM
o-Xylene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM



**Client:** TRC  
**Project:** Whitney's Chevrolet  
**Lab ID:** 2108100-003  
**Client Sample ID:** SVE-6-0804

**Collection Date:** 8/4/2021 3:50:00 PM  
**Matrix:** Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279      Analyst: KT

Styrene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Isopropylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Bromoform	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,1,2,2-Tetrachloroethane	ND	0.0400	H	µg/L	1	8/9/2021 11:44:02 AM
n-Propylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Bromobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,3,5-Trimethylbenzene	ND	0.0250	H	µg/L	1	8/9/2021 11:44:02 AM
2-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
4-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
tert-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,2,3-Trichloropropane	ND	0.0400	H	µg/L	1	8/9/2021 11:44:02 AM
1,2,4-Trichlorobenzene	ND	0.0750	H	µg/L	1	8/9/2021 11:44:02 AM
sec-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
4-Isopropyltoluene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,3-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,4-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
n-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,2-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
1,2-Dibromo-3-chloropropane	ND	0.100	H	µg/L	1	8/9/2021 11:44:02 AM
1,2,4-Trimethylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Hexachlorobutadiene	ND	0.0500	H	µg/L	1	8/9/2021 11:44:02 AM
Naphthalene	ND	0.125	H	µg/L	1	8/9/2021 11:44:02 AM
1,2,3-Trichlorobenzene	ND	0.0700	H	µg/L	1	8/9/2021 11:44:02 AM
Surr: Dibromofluoromethane	99.9	80 - 121	H	%Rec	1	8/9/2021 11:44:02 AM
Surr: Toluene-d8	101	80 - 120	H	%Rec	1	8/9/2021 11:44:02 AM
Surr: 1-Bromo-4-fluorobenzene	99.5	80 - 120	H	%Rec	1	8/9/2021 11:44:02 AM

**Gasoline by NWTPH-Gx**

Batch ID: 33279      Analyst: KT

Gasoline	ND	5.00	H	µg/L	1	8/9/2021 11:44:02 AM
Surr: 4-Bromofluorobenzene	99.9	65 - 135	H	%Rec	1	8/9/2021 11:44:02 AM
Surr: Toluene-d8	102	65 - 135	H	%Rec	1	8/9/2021 11:44:02 AM



**Client:** TRC

**Collection Date:** 8/4/2021 3:44:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-004

**Matrix:** Air

**Client Sample ID:** SVE-7-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Dichlorodifluoromethane	ND	0.125	H	µg/L	1	8/9/2021 12:14:07 PM
Chloromethane	ND	0.0750	H	µg/L	1	8/9/2021 12:14:07 PM
Vinyl chloride	ND	0.0350	H	µg/L	1	8/9/2021 12:14:07 PM
Bromomethane	ND	0.120	H	µg/L	1	8/9/2021 12:14:07 PM
Trichlorofluoromethane (CFC-11)	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Chloroethane	ND	0.100	H	µg/L	1	8/9/2021 12:14:07 PM
1,1-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Acetone	ND	0.600	H	µg/L	1	8/9/2021 12:14:07 PM
Methylene chloride	0.0854	0.0750	H	µg/L	1	8/9/2021 12:14:07 PM
trans-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Methyl tert-butyl ether (MTBE)	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,1-Dichloroethane	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
cis-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
(MEK) 2-Butanone	ND	0.150	H	µg/L	1	8/9/2021 12:14:07 PM
Chloroform	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,1,1-Trichloroethane (TCA)	ND	0.0400	H	µg/L	1	8/9/2021 12:14:07 PM
1,1-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Carbon tetrachloride	ND	0.0750	H	µg/L	1	8/9/2021 12:14:07 PM
1,2-Dichloroethane (EDC)	ND	0.0400	H	µg/L	1	8/9/2021 12:14:07 PM
Benzene	ND	0.0440	H	µg/L	1	8/9/2021 12:14:07 PM
Trichloroethene (TCE)	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,2-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Bromodichloromethane	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Dibromomethane	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
cis-1,3-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Toluene	ND	0.0750	H	µg/L	1	8/9/2021 12:14:07 PM
trans-1,3-Dichloropropylene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	H	µg/L	1	8/9/2021 12:14:07 PM
1,1,2-Trichloroethane	ND	0.0350	H	µg/L	1	8/9/2021 12:14:07 PM
1,3-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Tetrachloroethene (PCE)	ND	0.0400	H	µg/L	1	8/9/2021 12:14:07 PM
Dibromochloromethane	ND	0.100	H	µg/L	1	8/9/2021 12:14:07 PM
1,2-Dibromoethane (EDB)	ND	0.0300	H	µg/L	1	8/9/2021 12:14:07 PM
2-Hexanone	ND	0.100	H	µg/L	1	8/9/2021 12:14:07 PM
Chlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,1,1,2-Tetrachloroethane	ND	0.0300	H	µg/L	1	8/9/2021 12:14:07 PM
Ethylbenzene	ND	0.0400	H	µg/L	1	8/9/2021 12:14:07 PM
m,p-Xylene	ND	0.100	H	µg/L	1	8/9/2021 12:14:07 PM
o-Xylene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM



**Client:** TRC

**Collection Date:** 8/4/2021 3:44:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-004

**Matrix:** Air

**Client Sample ID:** SVE-7-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Styrene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Isopropylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Bromoform	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,1,2,2-Tetrachloroethane	ND	0.0400	H	µg/L	1	8/9/2021 12:14:07 PM
n-Propylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Bromobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,3,5-Trimethylbenzene	ND	0.0250	H	µg/L	1	8/9/2021 12:14:07 PM
2-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
4-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
tert-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,2,3-Trichloropropane	ND	0.0400	H	µg/L	1	8/9/2021 12:14:07 PM
1,2,4-Trichlorobenzene	ND	0.0750	H	µg/L	1	8/9/2021 12:14:07 PM
sec-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
4-Isopropyltoluene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,3-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,4-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
n-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,2-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
1,2-Dibromo-3-chloropropane	ND	0.100	H	µg/L	1	8/9/2021 12:14:07 PM
1,2,4-Trimethylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Hexachlorobutadiene	ND	0.0500	H	µg/L	1	8/9/2021 12:14:07 PM
Naphthalene	ND	0.125	H	µg/L	1	8/9/2021 12:14:07 PM
1,2,3-Trichlorobenzene	ND	0.0700	H	µg/L	1	8/9/2021 12:14:07 PM
Surr: Dibromofluoromethane	101	80 - 121	H	%Rec	1	8/9/2021 12:14:07 PM
Surr: Toluene-d8	101	80 - 120	H	%Rec	1	8/9/2021 12:14:07 PM
Surr: 1-Bromo-4-fluorobenzene	98.0	80 - 120	H	%Rec	1	8/9/2021 12:14:07 PM

**Gasoline by NWTPH-Gx**

Batch ID: 33279

Analyst: KT

Gasoline	ND	5.00	H	µg/L	1	8/9/2021 12:14:07 PM
Surr: 4-Bromofluorobenzene	98.6	65 - 135	H	%Rec	1	8/9/2021 12:14:07 PM
Surr: Toluene-d8	101	65 - 135	H	%Rec	1	8/9/2021 12:14:07 PM



**Client:** TRC

**Collection Date:** 8/4/2021 4:23:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-005

**Matrix:** Air

**Client Sample ID:** SVE-8-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Dichlorodifluoromethane	ND	0.125	H	µg/L	1	8/9/2021 12:44:15 PM
Chloromethane	ND	0.0750	H	µg/L	1	8/9/2021 12:44:15 PM
Vinyl chloride	ND	0.0350	H	µg/L	1	8/9/2021 12:44:15 PM
Bromomethane	ND	0.120	H	µg/L	1	8/9/2021 12:44:15 PM
Trichlorofluoromethane (CFC-11)	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Chloroethane	ND	0.100	H	µg/L	1	8/9/2021 12:44:15 PM
1,1-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Acetone	ND	0.600	H	µg/L	1	8/9/2021 12:44:15 PM
Methylene chloride	ND	0.0750	H	µg/L	1	8/9/2021 12:44:15 PM
trans-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Methyl tert-butyl ether (MTBE)	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,1-Dichloroethane	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
cis-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
(MEK) 2-Butanone	ND	0.150	H	µg/L	1	8/9/2021 12:44:15 PM
Chloroform	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,1,1-Trichloroethane (TCA)	ND	0.0400	H	µg/L	1	8/9/2021 12:44:15 PM
1,1-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Carbon tetrachloride	ND	0.0750	H	µg/L	1	8/9/2021 12:44:15 PM
1,2-Dichloroethane (EDC)	ND	0.0400	H	µg/L	1	8/9/2021 12:44:15 PM
Benzene	ND	0.0440	H	µg/L	1	8/9/2021 12:44:15 PM
Trichloroethene (TCE)	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,2-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Bromodichloromethane	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Dibromomethane	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
cis-1,3-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Toluene	ND	0.0750	H	µg/L	1	8/9/2021 12:44:15 PM
trans-1,3-Dichloropropylene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	H	µg/L	1	8/9/2021 12:44:15 PM
1,1,2-Trichloroethane	ND	0.0350	H	µg/L	1	8/9/2021 12:44:15 PM
1,3-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Tetrachloroethene (PCE)	ND	0.0400	H	µg/L	1	8/9/2021 12:44:15 PM
Dibromochloromethane	ND	0.100	H	µg/L	1	8/9/2021 12:44:15 PM
1,2-Dibromoethane (EDB)	ND	0.0300	H	µg/L	1	8/9/2021 12:44:15 PM
2-Hexanone	ND	0.100	H	µg/L	1	8/9/2021 12:44:15 PM
Chlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,1,1,2-Tetrachloroethane	ND	0.0300	H	µg/L	1	8/9/2021 12:44:15 PM
Ethylbenzene	ND	0.0400	H	µg/L	1	8/9/2021 12:44:15 PM
m,p-Xylene	ND	0.100	H	µg/L	1	8/9/2021 12:44:15 PM
o-Xylene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM



**Client:** TRC

**Collection Date:** 8/4/2021 4:23:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-005

**Matrix:** Air

**Client Sample ID:** SVE-8-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Styrene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Isopropylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Bromoform	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,1,2,2-Tetrachloroethane	ND	0.0400	H	µg/L	1	8/9/2021 12:44:15 PM
n-Propylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Bromobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,3,5-Trimethylbenzene	ND	0.0250	H	µg/L	1	8/9/2021 12:44:15 PM
2-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
4-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
tert-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,2,3-Trichloropropane	ND	0.0400	H	µg/L	1	8/9/2021 12:44:15 PM
1,2,4-Trichlorobenzene	ND	0.0750	H	µg/L	1	8/9/2021 12:44:15 PM
sec-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
4-Isopropyltoluene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,3-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,4-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
n-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,2-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
1,2-Dibromo-3-chloropropane	ND	0.100	H	µg/L	1	8/9/2021 12:44:15 PM
1,2,4-Trimethylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Hexachlorobutadiene	ND	0.0500	H	µg/L	1	8/9/2021 12:44:15 PM
Naphthalene	ND	0.125	H	µg/L	1	8/9/2021 12:44:15 PM
1,2,3-Trichlorobenzene	ND	0.0700	H	µg/L	1	8/9/2021 12:44:15 PM
Surr: Dibromofluoromethane	101	80 - 121	H	%Rec	1	8/9/2021 12:44:15 PM
Surr: Toluene-d8	101	80 - 120	H	%Rec	1	8/9/2021 12:44:15 PM
Surr: 1-Bromo-4-fluorobenzene	97.3	80 - 120	H	%Rec	1	8/9/2021 12:44:15 PM

**Gasoline by NWTPH-Gx**

Batch ID: 33279

Analyst: KT

Gasoline	ND	5.00	H	µg/L	1	8/9/2021 12:44:15 PM
Surr: 4-Bromofluorobenzene	98.1	65 - 135	H	%Rec	1	8/9/2021 12:44:15 PM
Surr: Toluene-d8	101	65 - 135	H	%Rec	1	8/9/2021 12:44:15 PM



**Client:** TRC

**Collection Date:** 8/4/2021 3:27:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-006

**Matrix:** Air

**Client Sample ID:** SVE-9-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Dichlorodifluoromethane	ND	0.125	H	µg/L	1	8/9/2021 1:14:12 PM
Chloromethane	ND	0.0750	H	µg/L	1	8/9/2021 1:14:12 PM
Vinyl chloride	ND	0.0350	H	µg/L	1	8/9/2021 1:14:12 PM
Bromomethane	ND	0.120	H	µg/L	1	8/9/2021 1:14:12 PM
Trichlorofluoromethane (CFC-11)	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Chloroethane	ND	0.100	H	µg/L	1	8/9/2021 1:14:12 PM
1,1-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Acetone	2.12	0.600	H	µg/L	1	8/9/2021 1:14:12 PM
Methylene chloride	ND	0.0750	H	µg/L	1	8/9/2021 1:14:12 PM
trans-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Methyl tert-butyl ether (MTBE)	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,1-Dichloroethane	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
cis-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
(MEK) 2-Butanone	3.35	0.150	H	µg/L	1	8/9/2021 1:14:12 PM
Chloroform	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,1,1-Trichloroethane (TCA)	ND	0.0400	H	µg/L	1	8/9/2021 1:14:12 PM
1,1-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Carbon tetrachloride	ND	0.0750	H	µg/L	1	8/9/2021 1:14:12 PM
1,2-Dichloroethane (EDC)	ND	0.0400	H	µg/L	1	8/9/2021 1:14:12 PM
Benzene	ND	0.0440	H	µg/L	1	8/9/2021 1:14:12 PM
Trichloroethene (TCE)	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,2-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Bromodichloromethane	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Dibromomethane	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
cis-1,3-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Toluene	ND	0.0750	H	µg/L	1	8/9/2021 1:14:12 PM
trans-1,3-Dichloropropylene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	H	µg/L	1	8/9/2021 1:14:12 PM
1,1,2-Trichloroethane	ND	0.0350	H	µg/L	1	8/9/2021 1:14:12 PM
1,3-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Tetrachloroethene (PCE)	ND	0.0400	H	µg/L	1	8/9/2021 1:14:12 PM
Dibromochloromethane	ND	0.100	H	µg/L	1	8/9/2021 1:14:12 PM
1,2-Dibromoethane (EDB)	ND	0.0300	H	µg/L	1	8/9/2021 1:14:12 PM
2-Hexanone	ND	0.100	H	µg/L	1	8/9/2021 1:14:12 PM
Chlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,1,1,2-Tetrachloroethane	ND	0.0300	H	µg/L	1	8/9/2021 1:14:12 PM
Ethylbenzene	ND	0.0400	H	µg/L	1	8/9/2021 1:14:12 PM
m,p-Xylene	ND	0.100	H	µg/L	1	8/9/2021 1:14:12 PM
o-Xylene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM



**Client:** TRC

**Collection Date:** 8/4/2021 3:27:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-006

**Matrix:** Air

**Client Sample ID:** SVE-9-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Styrene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Isopropylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Bromoform	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,1,2,2-Tetrachloroethane	ND	0.0400	H	µg/L	1	8/9/2021 1:14:12 PM
n-Propylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Bromobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,3,5-Trimethylbenzene	ND	0.0250	H	µg/L	1	8/9/2021 1:14:12 PM
2-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
4-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
tert-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,2,3-Trichloropropane	ND	0.0400	H	µg/L	1	8/9/2021 1:14:12 PM
1,2,4-Trichlorobenzene	ND	0.0750	H	µg/L	1	8/9/2021 1:14:12 PM
sec-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
4-Isopropyltoluene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,3-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,4-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
n-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,2-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
1,2-Dibromo-3-chloropropane	ND	0.100	H	µg/L	1	8/9/2021 1:14:12 PM
1,2,4-Trimethylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Hexachlorobutadiene	ND	0.0500	H	µg/L	1	8/9/2021 1:14:12 PM
Naphthalene	ND	0.125	H	µg/L	1	8/9/2021 1:14:12 PM
1,2,3-Trichlorobenzene	ND	0.0700	H	µg/L	1	8/9/2021 1:14:12 PM
Surr: Dibromofluoromethane	102	80 - 121	H	%Rec	1	8/9/2021 1:14:12 PM
Surr: Toluene-d8	101	80 - 120	H	%Rec	1	8/9/2021 1:14:12 PM
Surr: 1-Bromo-4-fluorobenzene	99.5	80 - 120	H	%Rec	1	8/9/2021 1:14:12 PM

**Gasoline by NWTPH-Gx**

Batch ID: 33279

Analyst: KT

Gasoline	ND	5.00	H	µg/L	1	8/9/2021 1:14:12 PM
Surr: 4-Bromofluorobenzene	99.9	65 - 135	H	%Rec	1	8/9/2021 1:14:12 PM
Surr: Toluene-d8	102	65 - 135	H	%Rec	1	8/9/2021 1:14:12 PM



**Client:** TRC

**Collection Date:** 8/4/2021 3:33:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-007

**Matrix:** Air

**Client Sample ID:** SVE-10-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279

Analyst: KT

Dichlorodifluoromethane	ND	0.125	H	µg/L	1	8/9/2021 1:44:19 PM
Chloromethane	ND	0.0750	H	µg/L	1	8/9/2021 1:44:19 PM
Vinyl chloride	ND	0.0350	H	µg/L	1	8/9/2021 1:44:19 PM
Bromomethane	ND	0.120	H	µg/L	1	8/9/2021 1:44:19 PM
Trichlorofluoromethane (CFC-11)	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Chloroethane	ND	0.100	H	µg/L	1	8/9/2021 1:44:19 PM
1,1-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Acetone	ND	0.600	H	µg/L	1	8/9/2021 1:44:19 PM
Methylene chloride	ND	0.0750	H	µg/L	1	8/9/2021 1:44:19 PM
trans-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Methyl tert-butyl ether (MTBE)	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,1-Dichloroethane	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
cis-1,2-Dichloroethene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
(MEK) 2-Butanone	0.301	0.150	H	µg/L	1	8/9/2021 1:44:19 PM
Chloroform	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,1,1-Trichloroethane (TCA)	ND	0.0400	H	µg/L	1	8/9/2021 1:44:19 PM
1,1-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Carbon tetrachloride	ND	0.0750	H	µg/L	1	8/9/2021 1:44:19 PM
1,2-Dichloroethane (EDC)	ND	0.0400	H	µg/L	1	8/9/2021 1:44:19 PM
Benzene	ND	0.0440	H	µg/L	1	8/9/2021 1:44:19 PM
Trichloroethene (TCE)	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,2-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Bromodichloromethane	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Dibromomethane	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
cis-1,3-Dichloropropene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Toluene	ND	0.0750	H	µg/L	1	8/9/2021 1:44:19 PM
trans-1,3-Dichloropropylene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.125	H	µg/L	1	8/9/2021 1:44:19 PM
1,1,2-Trichloroethane	ND	0.0350	H	µg/L	1	8/9/2021 1:44:19 PM
1,3-Dichloropropane	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Tetrachloroethene (PCE)	ND	0.0400	H	µg/L	1	8/9/2021 1:44:19 PM
Dibromochloromethane	ND	0.100	H	µg/L	1	8/9/2021 1:44:19 PM
1,2-Dibromoethane (EDB)	ND	0.0300	H	µg/L	1	8/9/2021 1:44:19 PM
2-Hexanone	ND	0.100	H	µg/L	1	8/9/2021 1:44:19 PM
Chlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,1,1,2-Tetrachloroethane	ND	0.0300	H	µg/L	1	8/9/2021 1:44:19 PM
Ethylbenzene	ND	0.0400	H	µg/L	1	8/9/2021 1:44:19 PM
m,p-Xylene	ND	0.100	H	µg/L	1	8/9/2021 1:44:19 PM
o-Xylene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM



**Client:** TRC  
**Project:** Whitney's Chevrolet  
**Lab ID:** 2108100-007  
**Client Sample ID:** SVE-10-0804

**Collection Date:** 8/4/2021 3:33:00 PM  
**Matrix:** Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33279 Analyst: KT

Styrene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Isopropylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Bromoform	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,1,2,2-Tetrachloroethane	ND	0.0400	H	µg/L	1	8/9/2021 1:44:19 PM
n-Propylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Bromobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,3,5-Trimethylbenzene	ND	0.0250	H	µg/L	1	8/9/2021 1:44:19 PM
2-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
4-Chlorotoluene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
tert-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,2,3-Trichloropropane	ND	0.0400	H	µg/L	1	8/9/2021 1:44:19 PM
1,2,4-Trichlorobenzene	ND	0.0750	H	µg/L	1	8/9/2021 1:44:19 PM
sec-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
4-Isopropyltoluene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,3-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,4-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
n-Butylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,2-Dichlorobenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
1,2-Dibromo-3-chloropropane	ND	0.100	H	µg/L	1	8/9/2021 1:44:19 PM
1,2,4-Trimethylbenzene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Hexachlorobutadiene	ND	0.0500	H	µg/L	1	8/9/2021 1:44:19 PM
Naphthalene	ND	0.125	H	µg/L	1	8/9/2021 1:44:19 PM
1,2,3-Trichlorobenzene	ND	0.0700	H	µg/L	1	8/9/2021 1:44:19 PM
Surr: Dibromofluoromethane	101	80 - 121	H	%Rec	1	8/9/2021 1:44:19 PM
Surr: Toluene-d8	101	80 - 120	H	%Rec	1	8/9/2021 1:44:19 PM
Surr: 1-Bromo-4-fluorobenzene	98.7	80 - 120	H	%Rec	1	8/9/2021 1:44:19 PM

**Gasoline by NWTPH-Gx**

Batch ID: 33279 Analyst: KT

Gasoline	ND	5.00	H	µg/L	1	8/9/2021 1:44:19 PM
Surr: 4-Bromofluorobenzene	99.4	65 - 135	H	%Rec	1	8/9/2021 1:44:19 PM
Surr: Toluene-d8	101	65 - 135	H	%Rec	1	8/9/2021 1:44:19 PM



**Client:** TRC

**Collection Date:** 8/4/2021 2:18:00 PM

**Project:** Whitney's Chevrolet

**Lab ID:** 2108100-008

**Matrix:** Air

**Client Sample ID:** INF-0804

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33268

Analyst: KT

Dichlorodifluoromethane	ND	0.125		µg/L	1	8/6/2021 4:18:03 PM
Chloromethane	ND	0.0750		µg/L	1	8/6/2021 4:18:03 PM
Vinyl chloride	ND	0.0350		µg/L	1	8/6/2021 4:18:03 PM
Bromomethane	ND	0.120		µg/L	1	8/6/2021 4:18:03 PM
Trichlorofluoromethane (CFC-11)	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Chloroethane	ND	0.100		µg/L	1	8/6/2021 4:18:03 PM
1,1-Dichloroethene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Acetone	1.01	0.600		µg/L	1	8/6/2021 4:18:03 PM
Methylene chloride	0.115	0.0750		µg/L	1	8/6/2021 4:18:03 PM
trans-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,1-Dichloroethane	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
cis-1,2-Dichloroethene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
(MEK) 2-Butanone	ND	0.150		µg/L	1	8/6/2021 4:18:03 PM
Chloroform	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,1,1-Trichloroethane (TCA)	ND	0.0400		µg/L	1	8/6/2021 4:18:03 PM
1,1-Dichloropropene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Carbon tetrachloride	ND	0.0750		µg/L	1	8/6/2021 4:18:03 PM
1,2-Dichloroethane (EDC)	ND	0.0400		µg/L	1	8/6/2021 4:18:03 PM
Benzene	ND	0.0440		µg/L	1	8/6/2021 4:18:03 PM
Trichloroethene (TCE)	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,2-Dichloropropane	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Bromodichloromethane	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Dibromomethane	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
cis-1,3-Dichloropropene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Toluene	ND	0.0750		µg/L	1	8/6/2021 4:18:03 PM
trans-1,3-Dichloropropylene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Methyl Isobutyl Ketone (MIBK)	ND	0.125		µg/L	1	8/6/2021 4:18:03 PM
1,1,2-Trichloroethane	ND	0.0350		µg/L	1	8/6/2021 4:18:03 PM
1,3-Dichloropropane	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Tetrachloroethene (PCE)	ND	0.0400		µg/L	1	8/6/2021 4:18:03 PM
Dibromochloromethane	ND	0.100		µg/L	1	8/6/2021 4:18:03 PM
1,2-Dibromoethane (EDB)	ND	0.0300		µg/L	1	8/6/2021 4:18:03 PM
2-Hexanone	ND	0.100		µg/L	1	8/6/2021 4:18:03 PM
Chlorobenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,1,1,2-Tetrachloroethane	ND	0.0300		µg/L	1	8/6/2021 4:18:03 PM
Ethylbenzene	ND	0.0400		µg/L	1	8/6/2021 4:18:03 PM
m,p-Xylene	ND	0.100		µg/L	1	8/6/2021 4:18:03 PM
o-Xylene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM



# Analytical Report

Work Order: 2108100  
Date Reported: 8/11/2021

**Client:** TRC  
**Project:** Whitney's Chevrolet  
**Lab ID:** 2108100-008  
**Client Sample ID:** INF-0804

**Collection Date:** 8/4/2021 2:18:00 PM  
**Matrix:** Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 33268      Analyst: KT

Styrene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Isopropylbenzene	0.0631	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Bromoform	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,1,2,2-Tetrachloroethane	ND	0.0400		µg/L	1	8/6/2021 4:18:03 PM
n-Propylbenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Bromobenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,3,5-Trimethylbenzene	ND	0.0250		µg/L	1	8/6/2021 4:18:03 PM
2-Chlorotoluene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
4-Chlorotoluene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
tert-Butylbenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,2,3-Trichloropropane	ND	0.0400		µg/L	1	8/6/2021 4:18:03 PM
1,2,4-Trichlorobenzene	ND	0.0750		µg/L	1	8/6/2021 4:18:03 PM
sec-Butylbenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
4-Isopropyltoluene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,3-Dichlorobenzene	0.0533	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,4-Dichlorobenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
n-Butylbenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,2-Dichlorobenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	8/6/2021 4:18:03 PM
1,2,4-Trimethylbenzene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Hexachlorobutadiene	ND	0.0500		µg/L	1	8/6/2021 4:18:03 PM
Naphthalene	ND	0.125		µg/L	1	8/6/2021 4:18:03 PM
1,2,3-Trichlorobenzene	ND	0.0700		µg/L	1	8/6/2021 4:18:03 PM
Surr: Dibromofluoromethane	101	80 - 121		%Rec	1	8/6/2021 4:18:03 PM
Surr: Toluene-d8	99.4	80 - 120		%Rec	1	8/6/2021 4:18:03 PM
Surr: 1-Bromo-4-fluorobenzene	97.2	80 - 120		%Rec	1	8/6/2021 4:18:03 PM

**Gasoline by NWTPH-Gx**

Batch ID: 33268      Analyst: KT

Gasoline	ND	5.00		µg/L	1	8/6/2021 4:18:03 PM
Surr: 4-Bromofluorobenzene	98.3	65 - 135		%Rec	1	8/6/2021 4:18:03 PM
Surr: Toluene-d8	101	65 - 135		%Rec	1	8/6/2021 4:18:03 PM

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: LCS-33268	SampType: LCS	Units: µg/L				Prep Date: 8/6/2021	RunNo: 69155				
Client ID: LCSW	Batch ID: 33268					Analysis Date: 8/6/2021	SeqNo: 1400276				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	3.44	0.125	2.000	0	172	80	120				S
Chloromethane	2.33	0.0750	2.000	0	116	80	120				
Vinyl chloride	2.39	0.0350	2.000	0	120	80	120				
Bromomethane	2.37	0.120	2.000	0	119	80	120				
Trichlorofluoromethane (CFC-11)	2.13	0.0500	2.000	0	107	80	120				
Chloroethane	2.19	0.100	2.000	0	110	80	120				
1,1-Dichloroethene	2.06	0.0500	2.000	0	103	80	120				
Acetone	4.42	0.600	5.000	0	88.4	80	120				
Methylene chloride	1.99	0.0750	2.000	0	99.3	80	120				
trans-1,2-Dichloroethene	1.96	0.0500	2.000	0	98.0	80	120				
Methyl tert-butyl ether (MTBE)	2.28	0.0500	2.000	0	114	80	120				
1,1-Dichloroethane	1.99	0.0500	2.000	0	99.6	80	120				
cis-1,2-Dichloroethene	1.96	0.0500	2.000	0	97.9	80	120				
(MEK) 2-Butanone	4.67	0.150	5.000	0	93.4	80	120				
Chloroform	1.95	0.0500	2.000	0	97.5	80	120				
1,1,1-Trichloroethane (TCA)	1.99	0.0400	2.000	0	99.6	80	120				
1,1-Dichloropropene	2.00	0.0500	2.000	0	99.8	80	120				
Carbon tetrachloride	1.97	0.0750	2.000	0	98.7	80	120				
1,2-Dichloroethane (EDC)	1.92	0.0400	2.000	0	96.0	80	120				
Benzene	1.94	0.0440	2.000	0	96.9	80	120				
Trichloroethene (TCE)	1.91	0.0500	2.000	0	95.6	80	120				
1,2-Dichloropropane	1.94	0.0500	2.000	0	97.2	80	120				
Bromodichloromethane	1.92	0.0500	2.000	0	95.9	80	120				
Dibromomethane	1.94	0.0500	2.000	0	96.8	80	120				
cis-1,3-Dichloropropene	2.08	0.0500	2.000	0	104	80	120				
Toluene	1.94	0.0750	2.000	0	97.2	80	120				
trans-1,3-Dichloropropylene	2.18	0.0500	2.000	0	109	80	120				
Methyl Isobutyl Ketone (MIBK)	4.57	0.125	5.000	0	91.3	80	120				
1,1,2-Trichloroethane	1.92	0.0350	2.000	0	96.0	80	120				
1,3-Dichloropropane	1.93	0.0500	2.000	0	96.7	80	120				

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-33268</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/6/2021</b>	RunNo: <b>69155</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>33268</b>		Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400276</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Tetrachloroethene (PCE)	1.94	0.0400	2.000	0	97.0	80	120				
Dibromochloromethane	1.92	0.100	2.000	0	96.0	80	120				
1,2-Dibromoethane (EDB)	1.95	0.0300	2.000	0	97.7	80	120				
2-Hexanone	4.66	0.100	5.000	0	93.3	80	120				
Chlorobenzene	2.00	0.0500	2.000	0	99.9	80	120				
1,1,1,2-Tetrachloroethane	2.00	0.0300	2.000	0	100	80	120				
Ethylbenzene	2.01	0.0400	2.000	0	100	80	120				
m,p-Xylene	4.00	0.100	4.000	0	99.9	80	120				
o-Xylene	2.00	0.0500	2.000	0	99.8	80	120				
Styrene	2.00	0.0500	2.000	0	100	80	120				
Isopropylbenzene	2.02	0.0500	2.000	0	101	80	120				
Bromoform	1.97	0.0500	2.000	0	98.4	80	120				
1,1,1,2,2-Tetrachloroethane	2.04	0.0400	2.000	0	102	80	120				
n-Propylbenzene	2.01	0.0500	2.000	0	101	80	120				
Bromobenzene	2.01	0.0500	2.000	0	100	80	120				
1,3,5-Trimethylbenzene	2.00	0.0250	2.000	0	100	80	120				
2-Chlorotoluene	1.99	0.0500	2.000	0	99.5	80	120				
4-Chlorotoluene	1.97	0.0500	2.000	0	98.7	80	120				
tert-Butylbenzene	2.01	0.0500	2.000	0	101	80	120				
1,2,3-Trichloropropane	2.06	0.0400	2.000	0	103	80	120				
1,2,4-Trichlorobenzene	2.26	0.0750	2.000	0	113	80	120				
sec-Butylbenzene	2.02	0.0500	2.000	0	101	80	120				
4-Isopropyltoluene	2.01	0.0500	2.000	0	101	80	120				
1,3-Dichlorobenzene	2.01	0.0500	2.000	0	101	80	120				
1,4-Dichlorobenzene	2.04	0.0500	2.000	0	102	80	120				
n-Butylbenzene	2.05	0.0500	2.000	0	102	80	120				
1,2-Dichlorobenzene	2.00	0.0500	2.000	0	100	80	120				
1,2-Dibromo-3-chloropropane	2.10	0.100	2.000	0	105	80	120				
1,2,4-Trimethylbenzene	2.00	0.0500	2.000	0	100	80	120				
Hexachlorobutadiene	2.06	0.0500	2.000	0	103	80	120				

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-33268</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/6/2021</b>	RunNo: <b>69155</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>33268</b>		Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400276</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2.39	0.125	2.000	0	119	80	120				
1,2,3-Trichlorobenzene	2.37	0.0700	2.000	0	118	80	120				
Surr: Dibromofluoromethane	2.47		2.500		98.8	80	120				
Surr: Toluene-d8	2.45		2.500		98.1	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.58		2.500		103	80	120				

**NOTES:**

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: <b>MB-33268</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/6/2021</b>	RunNo: <b>69155</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>33268</b>		Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400275</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									
1,2-Dichloroethane (EDC)	ND	0.0400									

**Work Order:** 2108100  
**CLIENT:** TRC  
**Project:** Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-33268</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/6/2021</b>	RunNo: <b>69155</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>33268</b>		Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400275</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.0440									
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									
tert-Butylbenzene	ND	0.0500									

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-33268</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/6/2021</b>	RunNo: <b>69155</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>33268</b>	Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400275</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichloropropane	ND	0.0400									
1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.0500									
Hexachlorobutadiene	ND	0.0500									
Naphthalene	ND	0.125									
1,2,3-Trichlorobenzene	ND	0.0700									
Surr: Dibromofluoromethane	2.34		2.500		93.7	80	121				
Surr: Toluene-d8	2.41		2.500		96.4	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.46		2.500		98.3	80	120				

Sample ID: <b>2108054-002AREP</b>	SampType: <b>REP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/6/2021</b>	RunNo: <b>69155</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>33268</b>	Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400271</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125						0		30	
Chloromethane	ND	0.0750						0		30	
Vinyl chloride	ND	0.0350						0		30	
Bromomethane	ND	0.120						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0500						0		30	
Chloroethane	ND	0.100						0		30	
1,1-Dichloroethene	ND	0.0500						0		30	
Acetone	1.77	0.600						1.937	8.94	30	
Methylene chloride	ND	0.0750						0		30	

**Work Order:** 2108100  
**CLIENT:** TRC  
**Project:** Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2108054-002AREP</b>	SampType: <b>REP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/6/2021</b>	RunNo: <b>69155</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>33268</b>		Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400271</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,2-Dichloroethene	ND	0.0500						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0500						0		30	
1,1-Dichloroethane	ND	0.0500						0		30	
cis-1,2-Dichloroethene	ND	0.0500						0		30	
(MEK) 2-Butanone	0.307	0.150						0.3178	3.39	30	
Chloroform	ND	0.0500						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0400						0		30	
1,1-Dichloropropene	ND	0.0500						0		30	
Carbon tetrachloride	ND	0.0750						0		30	
1,2-Dichloroethane (EDC)	ND	0.0400						0		30	
Benzene	ND	0.0440						0		30	
Trichloroethene (TCE)	ND	0.0500						0		30	
1,2-Dichloropropane	ND	0.0500						0		30	
Bromodichloromethane	ND	0.0500						0		30	
Dibromomethane	ND	0.0500						0		30	
cis-1,3-Dichloropropene	ND	0.0500						0		30	
Toluene	ND	0.0750						0		30	
trans-1,3-Dichloropropylene	ND	0.0500						0		30	
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0		30	
1,1,2-Trichloroethane	ND	0.0350						0		30	
1,3-Dichloropropane	ND	0.0500						0		30	
Tetrachloroethene (PCE)	ND	0.0400						0		30	
Dibromochloromethane	ND	0.100						0		30	
1,2-Dibromoethane (EDB)	ND	0.0300						0		30	
2-Hexanone	ND	0.100						0		30	
Chlorobenzene	ND	0.0500						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0300						0		30	
Ethylbenzene	ND	0.0400						0		30	
m,p-Xylene	ND	0.100						0		30	
o-Xylene	ND	0.0500						0		30	

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: 2108054-002AREP	SampType: REP	Units: µg/L			Prep Date: 8/6/2021	RunNo: 69155					
Client ID: BATCH	Batch ID: 33268				Analysis Date: 8/6/2021	SeqNo: 1400271					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	0.0500						0		30	
Isopropylbenzene	ND	0.0500						0		30	
Bromoform	ND	0.0500						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0400						0		30	
n-Propylbenzene	ND	0.0500						0		30	
Bromobenzene	ND	0.0500						0		30	
1,3,5-Trimethylbenzene	ND	0.0250						0		30	
2-Chlorotoluene	ND	0.0500						0		30	
4-Chlorotoluene	ND	0.0500						0		30	
tert-Butylbenzene	ND	0.0500						0		30	
1,2,3-Trichloropropane	ND	0.0400						0		30	
1,2,4-Trichlorobenzene	ND	0.0750						0		30	
sec-Butylbenzene	ND	0.0500						0		30	
4-Isopropyltoluene	ND	0.0500						0		30	
1,3-Dichlorobenzene	ND	0.0500						0		30	
1,4-Dichlorobenzene	ND	0.0500						0		30	
n-Butylbenzene	ND	0.0500						0		30	
1,2-Dichlorobenzene	ND	0.0500						0		30	
1,2-Dibromo-3-chloropropane	ND	0.100						0		30	
1,2,4-Trimethylbenzene	ND	0.0500						0		30	
Hexachlorobutadiene	ND	0.0500						0		30	
Naphthalene	ND	0.125						0		30	
1,2,3-Trichlorobenzene	ND	0.0700						0		30	
Surr: Dibromofluoromethane	2.50		2.500		99.8	80	121		0		
Surr: Toluene-d8	2.48		2.500		99.3	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	2.43		2.500		97.4	80	120		0		

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: LCS-33279	SampType: LCS	Units: µg/L				Prep Date: 8/9/2021	RunNo: 69159				
Client ID: LCSW	Batch ID: 33279					Analysis Date: 8/9/2021	SeqNo: 1400310				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	3.22	0.125	2.000	0	161	80	120				S
Chloromethane	2.27	0.0750	2.000	0	114	80	120				
Vinyl chloride	2.39	0.0350	2.000	0	119	80	120				
Bromomethane	3.11	0.120	2.000	0	155	80	120				S
Trichlorofluoromethane (CFC-11)	2.22	0.0500	2.000	0	111	80	120				
Chloroethane	2.25	0.100	2.000	0	113	80	120				
1,1-Dichloroethene	2.14	0.0500	2.000	0	107	80	120				
Acetone	4.02	0.600	5.000	0	80.4	80	120				
Methylene chloride	2.06	0.0750	2.000	0	103	80	120				
trans-1,2-Dichloroethene	2.11	0.0500	2.000	0	106	80	120				
Methyl tert-butyl ether (MTBE)	2.36	0.0500	2.000	0	118	80	120				
1,1-Dichloroethane	2.06	0.0500	2.000	0	103	80	120				
cis-1,2-Dichloroethene	2.09	0.0500	2.000	0	105	80	120				
(MEK) 2-Butanone	4.41	0.150	5.000	0	88.3	80	120				
Chloroform	2.07	0.0500	2.000	0	104	80	120				
1,1,1-Trichloroethane (TCA)	2.15	0.0400	2.000	0	108	80	120				
1,1-Dichloropropene	2.15	0.0500	2.000	0	107	80	120				
Carbon tetrachloride	2.15	0.0750	2.000	0	108	80	120				
1,2-Dichloroethane (EDC)	1.99	0.0400	2.000	0	99.6	80	120				
Benzene	2.10	0.0440	2.000	0	105	80	120				
Trichloroethene (TCE)	2.04	0.0500	2.000	0	102	80	120				
1,2-Dichloropropane	2.09	0.0500	2.000	0	104	80	120				
Bromodichloromethane	2.02	0.0500	2.000	0	101	80	120				
Dibromomethane	1.95	0.0500	2.000	0	97.4	80	120				
cis-1,3-Dichloropropene	2.23	0.0500	2.000	0	111	80	120				
Toluene	2.08	0.0750	2.000	0	104	80	120				
trans-1,3-Dichloropropylene	2.34	0.0500	2.000	0	117	80	120				
Methyl Isobutyl Ketone (MIBK)	4.27	0.125	5.000	0	85.4	80	120				
1,1,2-Trichloroethane	1.92	0.0350	2.000	0	96.1	80	120				
1,3-Dichloropropane	1.93	0.0500	2.000	0	96.6	80	120				

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-33279</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69159</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400310</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Tetrachloroethene (PCE)	2.11	0.0400	2.000	0	105	80	120				
Dibromochloromethane	1.93	0.100	2.000	0	96.4	80	120				
1,2-Dibromoethane (EDB)	1.92	0.0300	2.000	0	96.2	80	120				
2-Hexanone	4.28	0.100	5.000	0	85.7	80	120				
Chlorobenzene	1.94	0.0500	2.000	0	97.2	80	120				
1,1,1,2-Tetrachloroethane	1.94	0.0300	2.000	0	97.1	80	120				
Ethylbenzene	1.99	0.0400	2.000	0	99.5	80	120				
m,p-Xylene	3.92	0.100	4.000	0	97.9	80	120				
o-Xylene	1.96	0.0500	2.000	0	97.9	80	120				
Styrene	1.92	0.0500	2.000	0	96.1	80	120				
Isopropylbenzene	1.97	0.0500	2.000	0	98.7	80	120				
Bromoform	1.72	0.0500	2.000	0	86.1	80	120				
1,1,1,2,2-Tetrachloroethane	1.75	0.0400	2.000	0	87.7	80	120				
n-Propylbenzene	1.97	0.0500	2.000	0	98.4	80	120				
Bromobenzene	1.88	0.0500	2.000	0	94.2	80	120				
1,3,5-Trimethylbenzene	1.95	0.0250	2.000	0	97.3	80	120				
2-Chlorotoluene	1.93	0.0500	2.000	0	96.5	80	120				
4-Chlorotoluene	1.92	0.0500	2.000	0	96.2	80	120				
tert-Butylbenzene	1.94	0.0500	2.000	0	97.0	80	120				
1,2,3-Trichloropropane	1.79	0.0400	2.000	0	89.3	80	120				
1,2,4-Trichlorobenzene	2.05	0.0750	2.000	0	103	80	120				
sec-Butylbenzene	1.96	0.0500	2.000	0	98.2	80	120				
4-Isopropyltoluene	1.96	0.0500	2.000	0	97.8	80	120				
1,3-Dichlorobenzene	2.02	0.0500	2.000	0	101	80	120				
1,4-Dichlorobenzene	2.03	0.0500	2.000	0	102	80	120				
n-Butylbenzene	2.11	0.0500	2.000	0	106	80	120				
1,2-Dichlorobenzene	1.98	0.0500	2.000	0	99.0	80	120				
1,2-Dibromo-3-chloropropane	1.77	0.100	2.000	0	88.4	80	120				
1,2,4-Trimethylbenzene	1.94	0.0500	2.000	0	97.1	80	120				
Hexachlorobutadiene	2.09	0.0500	2.000	0	104	80	120				

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>LCS-33279</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69159</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400310</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.95	0.125	2.000	0	97.7	80	120				
1,2,3-Trichlorobenzene	2.08	0.0700	2.000	0	104	80	120				
Surr: Dibromofluoromethane	2.60		2.500		104	80	120				
Surr: Toluene-d8	2.69		2.500		107	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.49		2.500		99.8	80	120				

**NOTES:**

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: <b>MB-33279</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69159</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400309</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125									
Chloromethane	ND	0.0750									
Vinyl chloride	ND	0.0350									
Bromomethane	ND	0.120									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.0500									
Acetone	ND	0.600									
Methylene chloride	ND	0.0750									
trans-1,2-Dichloroethene	ND	0.0500									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0500									
(MEK) 2-Butanone	ND	0.150									
Chloroform	ND	0.0500									
1,1,1-Trichloroethane (TCA)	ND	0.0400									
1,1-Dichloropropene	ND	0.0500									
Carbon tetrachloride	ND	0.0750									
1,2-Dichloroethane (EDC)	ND	0.0400									

**Work Order:** 2108100  
**CLIENT:** TRC  
**Project:** Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-33279</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69159</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400309</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.0440									
Trichloroethene (TCE)	ND	0.0500									
1,2-Dichloropropane	ND	0.0500									
Bromodichloromethane	ND	0.0500									
Dibromomethane	ND	0.0500									
cis-1,3-Dichloropropene	ND	0.0500									
Toluene	ND	0.0750									
trans-1,3-Dichloropropylene	ND	0.0500									
Methyl Isobutyl Ketone (MIBK)	ND	0.125									
1,1,2-Trichloroethane	ND	0.0350									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0400									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.0300									
2-Hexanone	ND	0.100									
Chlorobenzene	ND	0.0500									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0400									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.0500									
Styrene	ND	0.0500									
Isopropylbenzene	ND	0.0500									
Bromoform	ND	0.0500									
1,1,2,2-Tetrachloroethane	ND	0.0400									
n-Propylbenzene	ND	0.0500									
Bromobenzene	ND	0.0500									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0500									
4-Chlorotoluene	ND	0.0500									
tert-Butylbenzene	ND	0.0500									

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>MB-33279</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69159</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400309</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichloropropane	ND	0.0400									
1,2,4-Trichlorobenzene	ND	0.0750									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0500									
1,4-Dichlorobenzene	ND	0.0500									
n-Butylbenzene	ND	0.0500									
1,2-Dichlorobenzene	ND	0.0500									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.0500									
Hexachlorobutadiene	ND	0.0500									
Naphthalene	ND	0.125									
1,2,3-Trichlorobenzene	ND	0.0700									
Surr: Dibromofluoromethane	2.35		2.500		94.1	80	121				
Surr: Toluene-d8	2.42		2.500		96.8	80	120				
Surr: 1-Bromo-4-fluorobenzene	2.41		2.500		96.6	80	120				

Sample ID: <b>2108100-001AREP</b>	SampType: <b>REP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69159</b>							
Client ID: <b>SVE-4-0804</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400300</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.125						0		30	H
Chloromethane	ND	0.0750						0		30	H
Vinyl chloride	ND	0.0350						0		30	H
Bromomethane	ND	0.120						0		30	H
Trichlorofluoromethane (CFC-11)	ND	0.0500						0		30	H
Chloroethane	ND	0.100						0		30	H
1,1-Dichloroethene	ND	0.0500						0		30	H
Acetone	ND	0.600						0		30	H
Methylene chloride	0.0806	0.0750						0.07010	14.0	30	H

**Work Order:** 2108100  
**CLIENT:** TRC  
**Project:** Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: <b>2108100-001AREP</b>	SampType: <b>REP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69159</b>							
Client ID: <b>SVE-4-0804</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400300</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,2-Dichloroethene	ND	0.0500						0		30	H
Methyl tert-butyl ether (MTBE)	ND	0.0500						0		30	H
1,1-Dichloroethane	ND	0.0500						0		30	H
cis-1,2-Dichloroethene	ND	0.0500						0		30	H
(MEK) 2-Butanone	0.218	0.150						0	200	30	H
Chloroform	ND	0.0500						0		30	H
1,1,1-Trichloroethane (TCA)	ND	0.0400						0		30	H
1,1-Dichloropropene	ND	0.0500						0		30	H
Carbon tetrachloride	ND	0.0750						0		30	H
1,2-Dichloroethane (EDC)	ND	0.0400						0		30	H
Benzene	ND	0.0440						0		30	H
Trichloroethene (TCE)	ND	0.0500						0		30	H
1,2-Dichloropropane	ND	0.0500						0		30	H
Bromodichloromethane	ND	0.0500						0		30	H
Dibromomethane	ND	0.0500						0		30	H
cis-1,3-Dichloropropene	ND	0.0500						0		30	H
Toluene	ND	0.0750						0		30	H
trans-1,3-Dichloropropylene	ND	0.0500						0		30	H
Methyl Isobutyl Ketone (MIBK)	ND	0.125						0		30	H
1,1,2-Trichloroethane	ND	0.0350						0		30	H
1,3-Dichloropropane	ND	0.0500						0		30	H
Tetrachloroethene (PCE)	ND	0.0400						0		30	H
Dibromochloromethane	ND	0.100						0		30	H
1,2-Dibromoethane (EDB)	ND	0.0300						0		30	H
2-Hexanone	ND	0.100						0		30	H
Chlorobenzene	ND	0.0500						0		30	H
1,1,1,2-Tetrachloroethane	ND	0.0300						0		30	H
Ethylbenzene	ND	0.0400						0		30	H
m,p-Xylene	ND	0.100						0		30	H
o-Xylene	ND	0.0500						0		30	H

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: 2108100-001AREP	SampType: REP	Units: µg/L	Prep Date: 8/9/2021	RunNo: 69159							
Client ID: SVE-4-0804	Batch ID: 33279	Analysis Date: 8/9/2021	SeqNo: 1400300								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	0.0500						0		30	H
Isopropylbenzene	ND	0.0500						0		30	H
Bromoform	ND	0.0500						0		30	H
1,1,2,2-Tetrachloroethane	ND	0.0400						0		30	H
n-Propylbenzene	ND	0.0500						0		30	H
Bromobenzene	ND	0.0500						0		30	H
1,3,5-Trimethylbenzene	ND	0.0250						0		30	H
2-Chlorotoluene	ND	0.0500						0		30	H
4-Chlorotoluene	ND	0.0500						0		30	H
tert-Butylbenzene	ND	0.0500						0		30	H
1,2,3-Trichloropropane	ND	0.0400						0		30	H
1,2,4-Trichlorobenzene	ND	0.0750						0		30	H
sec-Butylbenzene	ND	0.0500						0		30	H
4-Isopropyltoluene	ND	0.0500						0		30	H
1,3-Dichlorobenzene	ND	0.0500						0		30	H
1,4-Dichlorobenzene	ND	0.0500						0		30	H
n-Butylbenzene	ND	0.0500						0		30	H
1,2-Dichlorobenzene	ND	0.0500						0		30	H
1,2-Dibromo-3-chloropropane	ND	0.100						0		30	H
1,2,4-Trimethylbenzene	ND	0.0500						0		30	H
Hexachlorobutadiene	ND	0.0500						0		30	H
Naphthalene	ND	0.125						0		30	H
1,2,3-Trichlorobenzene	ND	0.0700						0		30	H
Surr: Dibromofluoromethane	2.51		2.500		101	80	121		0		H
Surr: Toluene-d8	2.48		2.500		99.3	80	120		0		H
Surr: 1-Bromo-4-fluorobenzene	2.47		2.500		98.8	80	120		0		H

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>LCS-33268</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>8/6/2021</b>	RunNo: <b>69156</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>33268</b>				Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400285</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	56.9	5.00	50.00	0	114	65	135				
Surr: 4-Bromofluorobenzene	2.46		2.500		98.5	65	135				
Surr: Toluene-d8	2.48		2.500		99.3	65	135				

Sample ID: <b>MB-33268</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>8/6/2021</b>	RunNo: <b>69156</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>33268</b>				Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400284</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.45		2.500		98.0	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				

Sample ID: <b>2108054-002AREP</b>	SampType: <b>REP</b>	Units: <b>µg/L</b>			Prep Date: <b>8/6/2021</b>	RunNo: <b>69156</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>33268</b>				Analysis Date: <b>8/6/2021</b>	SeqNo: <b>1400280</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0		30	
Surr: 4-Bromofluorobenzene	2.46		2.500		98.5	65	135		0		
Surr: Toluene-d8	2.54		2.500		101	65	135		0		

Sample ID: <b>LCS-33279</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>8/9/2021</b>	RunNo: <b>69161</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>33279</b>				Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400353</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	56.8	5.00	50.00	0	114	65	135				
Surr: 4-Bromofluorobenzene	2.48		2.500		99.3	65	135				
Surr: Toluene-d8	2.55		2.500		102	65	135				

Work Order: 2108100  
 CLIENT: TRC  
 Project: Whitney's Chevrolet

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>MB-33279</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69161</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400352</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 4-Bromofluorobenzene	2.42		2.500		96.7	65	135				
Surr: Toluene-d8	2.52		2.500		101	65	135				

Sample ID: <b>2108100-001AREP</b>	SampType: <b>REP</b>	Units: <b>µg/L</b>	Prep Date: <b>8/9/2021</b>	RunNo: <b>69161</b>							
Client ID: <b>SVE-4-0804</b>	Batch ID: <b>33279</b>		Analysis Date: <b>8/9/2021</b>	SeqNo: <b>1400343</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00						0		30	H
Surr: 4-Bromofluorobenzene	2.51		2.500		100	65	135		0		H
Surr: Toluene-d8	2.53		2.500		101	65	135		0		H

Client Name: **TRCI**  
 Logged by: **Clare Griggs**

Work Order Number: **2108100**  
 Date Received: **8/6/2021 9:08:00 AM**

### Chain of Custody

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

### Log In

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

### Special Handling (if applicable)

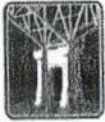
18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	Austin York / Sean Trimbl	Date:	8/6/2021
By Whom:	Clare Griggs	Via:	<input checked="" type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	Did not receive page 2 of COC. Hold time.		
Client Instructions:	Client provided page 2 of COC. Prioritize EFF-1-0804 for hold times.		

19. Additional remarks:

### Item Information

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



**Fremont**  
Analytical

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

**Air Chain of Custody Record & Laboratory Services Agreement**

Date: 8-5-21 Page: 1 of 2

Laboratory Project No (Internal): 2198109

Client: TRC  
Address: 1180 NW Maple St, Ste 310  
City, State, Zip: Issaquah, WA 98027  
Telephone: 425-395-0010

Project Name: Whitney's Chevrolet  
Project No: 015347  
Location: 123 W Pioneer Ave, Montesano  
Collected by: AY/AM  
Reports to (PM): Sean Trimble  
Email (PM): STrimble@TRCcompanies.com

Special Remarks:

Air samples are disposed of one week after report is submitted to client unless otherwise requested.  OK to Dispose  Hold (fees may apply)

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (" Hg)	Analysis										Comments	Final Pressure ("Hg)				
									VOCs TO15 SCAN	VOCs TO15 SCAN LL	VOCs TO15-SM-B20	Siloxanes TO15	Sulfur TO15	Sulfur Est. TO15	APH TO15	Helium	Major Gases 3C	TPH-GX						
1 SVE-4-0804	Canister	air	1L Tedlar		8-4-21 1520							X												
2 SVE-5-0804	Canister				8-4-21 1507							X												
3 SVE-6-0804	Canister				8-4-21 1550							X												
4 SVE-7-0804	Canister				8-4-21 1544							X												
5 SVE-8-0804	Canister				8-4-21 1623							X												

\* Matrix Codes: AA = Ambient Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE L = Landfill D = Digester  
\*\* Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

Turn-Around Time:  
 Standard  Next Day  
 3 Day  Same Day  
 2 Day  specify

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) Austin Y. re  
Print Name Austin Y. re  
Date/Time 8-5-21 1815

Received (Signature) Edmark  
Print Name Edmark  
Date/Time 8/6/10 908  
  
Received (Signature) Oberkhan  
Print Name Oberkhan  
Date/Time 8/6/21 0943



**Fremont**  
Analytical

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

# Air Chain of Custody Record & Laboratory Services Agreement

Date: \_\_\_\_\_ Page: \_\_\_\_\_ of: \_\_\_\_\_  
Laboratory Project No (Internal): **2108100**

Project Name: \_\_\_\_\_  
Special Remarks:

Project No: \_\_\_\_\_

Location: \_\_\_\_\_

Collected by: \_\_\_\_\_

Reports to (PM): \_\_\_\_\_  
Email (PM): \_\_\_\_\_

Client: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Air samples are disposed of one week after report is submitted to client unless otherwise requested.  OK to Dispose  Hold (fees may apply)

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (" Hg)	Analysis										Comments	Internal Final Pressure ("Hg)			
									Full list VOCs TO15	Select VOCs TO15 ***	APH TO15	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod	VOCs 8260	GV/BTEX 8260						
1	Canister Flow Reg.				Date Time		Date Time	Pressure Pressure															
2	Canister Flow Reg.				Date Time		Date Time	Pressure Pressure															
3	Canister Flow Reg.				Date Time		Date Time	Pressure Pressure															
4	Canister Flow Reg.				Date Time		Date Time	Pressure Pressure															
5	Canister Flow Reg.				Date Time		Date Time	Pressure Pressure															

\* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE L = Landfill D = Digester  
 \*\* Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag  
 \*\*\* Select one:  BTEXN & APH  PCE & Breakdown  Other, specify in comments

**Turn-Around Time:**  
 Standard  Next Day  
 3 Day  Same Day  
 2 Day \_\_\_\_\_ specify

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_  
 x *Austin York*  
 Relinquished (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_  
 x \_\_\_\_\_

Received (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_  
 x *[Signature]*  
 Received (Signature) \_\_\_\_\_ Print Name \_\_\_\_\_ Date/Time \_\_\_\_\_  
 x \_\_\_\_\_

**SAMPLE RECEIVING.** Laboratory hours are from 8:00am to 6:00pm – Monday through Friday. Turn-around times for samples received after 4:00pm begin on the following business day.

**TURN-AROUND TIMES.** Standard turn-around is 5 business days from the date of sample receipt for most analyses. For many analyses we offer expedited turn-around times, including:

• 3 Day (50% surcharge) • 2 Day (75% surcharge) • Next Day (100% surcharge) • Same Day – Call for availability and pricing

Expedited turn-around and/or specific data delivery requirements should be coordinated in advance. Samples received near the end of their holding time may incur an expedited analysis surcharge whether or not expedited report delivery is requested.

**SAMPLE DISPOSAL.** Fremont Analytical, Inc. (FAI) archives samples for 30 days after issuing the analytical report or after receiving Client instructions to suspend or terminate the project. After 30 days, FAI disposes of all sample volume in accordance with all governing regulations and laboratory best practices. Clients wishing to reclaim sample volume must request storage beyond the standard 30 days or arrange to retrieve the volume before the scheduled disposal. A \$5.00 fee per sample accrues monthly for storage requested beyond 30 days. FAI reserves the right to charge a disposal fee (not to exceed \$25.00/sample) for samples requiring special packaging and labeling as Hazardous Materials. "Hazardous Materials" include, but are not limited to, substances of any kind that are potentially poisonous, toxic, radioactive, explosive, or flammable, that contain biohazards or high levels of trace metals, or that pose any risk to persons or the environment through handling or disposal.

**PAYMENT.** All invoices are sent directly to the client contact provided. For clients with approved credit, payment terms are net 30 days from the date of the invoice. All overdue balances are subject to a 1.5% interest and service charge per month from the due date of the invoice. Third party billing will not be approved without a signed statement from the named party that acknowledges and accepts payment responsibility. In the event that payment is not received within 60 days of the invoice date, FAI may, at its option, terminate all duties without liability to the Client or others. All data produced by FAI is the property of FAI until all associated costs are paid. Clients suspending or terminating a project may be charged for services already performed whether or not analytical data is available or provided.

**CONFIDENTIALITY.** FAI maintains the confidentiality of all Client data. No information regarding clients' names, sites, projects, or data will be released without direct, written authorization from the Project Manager designated on this COC Record or other authorized representative of the client company. All data and reports provided to the Client by FAI are specifically for the use of the Client. Reports are intended to be considered in their entirety. FAI is not responsible for the use or misuse of any portion of data or a report by the Client or third parties.

**COMPLETE AGREEMENT, MODIFICATION, WAIVER, ENFORCEABILITY.** This Agreement, including the parts incorporated herein by reference, is the complete agreement of the parties with regard to services of FAI. No modification or amendment to this Agreement shall be valid unless in writing and signed by an authorized representative of each party. This Agreement is binding on each party's heirs, successors, and assigns. If any provision of this Agreement is held invalid, illegal, or unenforceable, then the remaining provisions shall remain in effect and may be reformed and enforced by the court. Failure to require performance of any term of this Agreement shall not be deemed a waiver of the right to enforce any term of this Agreement.

**JURISDICTION AND VENUE.** This Agreement shall be interpreted according to the laws of the State of Washington. FAI and Client agree to submit to the jurisdiction and venue of state and federal courts in Seattle, Washington.

**LIMITED WARRANTY.** FAI warrants only that it will perform services using analytical methodologies with published test methods according to industry standards. If circumstances require analytic practices for which standards do not exist, FAI warrants only that its services will be in accordance with standard scientific procedures and good laboratory practices. FAI MAKES NO OTHER WARRANTIES AND DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES. FAI MAKES NO REPRESENTATIONS OR WARRANTIES REGARDING THE FITNESS OF THE DATA IN ITS REPORTS FOR ANY PARTICULAR USE OR PURPOSE.

**LIMITATIONS ON FAI'S LIABILITY.** FAI shall not be liable to Client for any of the following types of damages or losses arising out of this Agreement: incidental damages, indirect damages, consequential damages, lost profits, or tort damages. CLIENT'S SOLE REMEDY SHALL BE A REFUND OF THE APPLICABLE PAYMENT TO FAI. FAI SHALL HAVE NO LIABILITY OR OBLIGATIONS EXCEPT AS STATED HEREIN.

**TIME LIMITATIONS ON ACTIONS AGAINST FAI.** No legal action arising out of any service provided by FAI under this Agreement may be brought against FAI more than one year after FAI has performed the service that is the subject of the legal action, regardless of whether the parties have agreed to arbitration. For the purposes of this Agreement, each Chain of Custody Record and Laboratory Services Agreement form submitted constitutes a unique set of services.

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**Fremont**  
Analytical

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

# Air Chain of Custody Record & Laboratory Services Agreement

**Date:** \_\_\_\_\_ **Page:** \_\_\_\_\_ **of:** \_\_\_\_\_

**Laboratory Project No (Internal):** 2108100

**Project Name:** \_\_\_\_\_

**Project No:** \_\_\_\_\_

**Location:** \_\_\_\_\_

**Collected by:** \_\_\_\_\_

**Reports to (PM):** \_\_\_\_\_

**Email (PM):** \_\_\_\_\_

**Client:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City, State, Zip:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_

**Fax:** \_\_\_\_\_

Special Remarks:  
**Edit per CM 8/23/21 -CG**

Air samples are disposed of one week after report is submitted to client unless otherwise requested.  OK to Dispose  Hold (fees may apply)

Sample Name	Canister / Flow Reg Serial #	Sample Type (Matrix) *	Container Type **	Expected Fill Time / Flow Rate	Sample Start Date & Time	Field Initial Sample Pressure (" Hg)	Sample End Date & Time	Field Final Sample Pressure (" Hg)	Analysis										Comments	Internal Final Pressure ("Hg)			
									Full list VOCs TO15	Select VOCs TO15 ***	APH TO15	Siloxanes TO15	Sulfur TO15	Major Gases 3C	Helium 3C Mod	VOCs 8260	GV/BTEX 8260						
1	Canister Flow Reg.				Date Time	Pressure	Date Time	Pressure															
2	Canister Flow Reg.				Date Time	Pressure	Date Time	Pressure															
3	Canister Flow Reg.				Date Time	Pressure	Date Time	Pressure															
4	Canister Flow Reg.				Date Time	Pressure	Date Time	Pressure															
5	Canister Flow Reg.				Date Time	Pressure	Date Time	Pressure															

\* Matrix Codes: AA = Ambient Air OA = Outdoor Air IA = Indoor Air S = Subslab / Soil Gas SVE = SVE L = Landfill D = Digester

\*\* Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

\*\*\* Select one:  BTEXN & APH  PCE & Breakdown  Other, specify in comments

**Turn-Around Time:**

Standard  Next Day

3 Day  Same Day

2 Day \_\_\_\_\_ specify

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature) x <i>Austin York</i>	Print Name	Date/Time	Received (Signature) x <i>Clu Gino</i>	Print Name	Date/Time
Relinquished (Signature) x	Print Name	Date/Time	Received (Signature) x	Print Name	Date/Time

**SAMPLE RECEIVING.** Laboratory hours are from 8:00am to 6:00pm – Monday through Friday. Turn-around times for samples received after 4:00pm begin on the following business day.

**TURN-AROUND TIMES.** Standard turn-around is 5 business days from the date of sample receipt for most analyses. For many analyses we offer expedited turn-around times, including:

• 3 Day (50% surcharge) • 2 Day (75% surcharge) • Next Day (100% surcharge) • Same Day – Call for availability and pricing

Expedited turn-around and/or specific data delivery requirements should be coordinated in advance. Samples received near the end of their holding time may incur an expedited analysis surcharge whether or not expedited report delivery is requested.

**SAMPLE DISPOSAL.** Fremont Analytical, Inc. (FAI) archives samples for 30 days after issuing the analytical report or after receiving Client instructions to suspend or terminate the project. After 30 days, FAI disposes of all sample volume in accordance with all governing regulations and laboratory best practices. Clients wishing to reclaim sample volume must request storage beyond the standard 30 days or arrange to retrieve the volume before the scheduled disposal. A \$5.00 fee per sample accrues monthly for storage requested beyond 30 days. FAI reserves the right to charge a disposal fee (not to exceed \$25.00/sample) for samples requiring special packaging and labeling as Hazardous Materials. "Hazardous Materials" include, but are not limited to, substances of any kind that are potentially poisonous, toxic, radioactive, explosive, or flammable, that contain biohazards or high levels of trace metals, or that pose any risk to persons or the environment through handling or disposal.

**PAYMENT.** All invoices are sent directly to the client contact provided. For clients with approved credit, payment terms are net 30 days from the date of the invoice. All overdue balances are subject to a 1.5% interest and service charge per month from the due date of the invoice. Third party billing will not be approved without a signed statement from the named party that acknowledges and accepts payment responsibility. In the event that payment is not received within 60 days of the invoice date, FAI may, at its option, terminate all duties without liability to the Client or others. All data produced by FAI is the property of FAI until all associated costs are paid. Clients suspending or terminating a project may be charged for services already performed whether or not analytical data is available or provided.

**CONFIDENTIALITY.** FAI maintains the confidentiality of all Client data. No information regarding clients' names, sites, projects, or data will be released without direct, written authorization from the Project Manager designated on this COC Record or other authorized representative of the client company. All data and reports provided to the Client by FAI are specifically for the use of the Client. Reports are intended to be considered in their entirety. FAI is not responsible for the use or misuse of any portion of data or a report by the Client or third parties.

**COMPLETE AGREEMENT, MODIFICATION, WAIVER, ENFORCEABILITY.** This Agreement, including the parts incorporated herein by reference, is the complete agreement of the parties with regard to services of FAI. No modification or amendment to this Agreement shall be valid unless in writing and signed by an authorized representative of each party. This Agreement is binding on each party's heirs, successors, and assigns. If any provision of this Agreement is held invalid, illegal, or unenforceable, then the remaining provisions shall remain in effect and may be reformed and enforced by the court. Failure to require performance of any term of this Agreement shall not be deemed a waiver of the right to enforce any term of this Agreement.

**JURISDICTION AND VENUE.** This Agreement shall be interpreted according to the laws of the State of Washington. FAI and Client agree to submit to the jurisdiction and venue of state and federal courts in Seattle, Washington.

**LIMITED WARRANTY.** FAI warrants only that it will perform services using analytical methodologies with published test methods according to industry standards. If circumstances require analytic practices for which standards do not exist, FAI warrants only that its services will be in accordance with standard scientific procedures and good laboratory practices. FAI MAKES NO OTHER WARRANTIES AND DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES. FAI MAKES NO REPRESENTATIONS OR WARRANTIES REGARDING THE FITNESS OF THE DATA IN ITS REPORTS FOR ANY PARTICULAR USE OR PURPOSE.

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