

Rebecca Digiustino
Oregon DEQ
(via email)

Wednesday, April 10, 2024

RE: LUST #26-23-0719 and LUST #26-94-0180/ECSI #4723
Macadam Chevron and Former Sunset Fuels/Pacific Pride Sites
6230 SW Macadam Ave
Portland, Oregon

Dear Ms. Digiustino:

Point Source Solutions was engaged to evaluate current conditions at the above referenced site subsequent to an equipment upgrade and tank replacement project conducted by 4Cs (contractor) in October of 2023.

In October of 2023, 4Cs conducted piping, dispenser, and UST upgrades/replacement at the site. Petroleum impacted soils were identified during these upgrades and were reported to DEQ. DEQ assigned LUST ID# 26-23-0719 to the reported release. 4Cs completed the upgrades and installation and backfilled all excavations, making the site fully operational. The site owner then contacted Point Source seeking assistance with addressing the information reported by 4Cs. No written report was provided by 4Cs, although they did provide a summary table of soil sample analytical results, a figure of the associated sample locations, and analytical reports at the request of Point Source (attached).

The site is also listed as LUST ID #26-94-0180 and ECSI Facility #4723 for soil and groundwater impacts identified in 1994. Extensive investigations were conducted at the time of the release and leading up to a NFA determination granted by DEQ in 2013.

Based on available documentation regarding the historic release associated with LUST ID #26-94-0180 and ECSI Facility #4723 and documentation of sampling locations/concentrations provided by 4Cs during the October, 2023 site activities, it is Point Sources' opinion that there is a likelihood that the reported release (LUST ID# 26-23-0719) is in fact residual contamination left onsite related to the historic release (LUST ID #26-94-0180 and ECSI Facility #4723) and therefor may be eligible for consideration for administrative closure under the existing NFA granted to the site in 2013.

At the recommendation of Point Source, the site owner submitted a DEQ Cost Recovery Agreement.

Point Source is seeking an opinion from DEQ as to whether DEQ will consider the most recent data as supportive of previously identified conditions (as outlined in the attached original NFA Letter), or whether the data will be considered evidence of a new release.

Sincerely,



Jeff Jackman

Point Source Solutions
5317 NE St Johns Rd, Suite D
Vancouver, WA 98661
Phone: 503.236.5885

Attachments:

DEQ NFA Memo and Figure Attachments (ECSI #4723)

DEQ Letter (LUST #26-23-0719)

Analytical Results, 4Cs (October 2023)

Sample Location Figure and Table, 4Cs (October 2023)



Oregon

John A. Kitzhaber, MD, Governor

Department of Environmental Quality

Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400

Portland, OR 97201-4987

(503) 229-5263

FAX (503) 229-5471

TTY 711

November 18, 2013

Jerry Miesen
2858 Lakeview, Blvd.
Lake Oswego, OR 97035

RE: DEQ Notice to Neighbors of No Further Action determination for 6140 and 6230, SW Macadam Ave. Portland Oregon.

Dear Mr. Miesen,

The Oregon Department of Environmental Quality is preparing to issue a No Further Action determination for two adjacent properties located at 6140 and 6230 SW Macadam Ave. Portland, Oregon. The 6140 property is currently the Grand + Benedicts building and parking lot. The 6230 property is currently a Pacific Pride card lock vehicle fueling station. I am writing to inform you of this pending decision because you have an interest in the subject property or an adjacent property.

The two properties were previously developed and used by the Sunset Fuel Company from about 1950 to about 1967 for use as a retail fuel distribution facility which included firewood, coal, sawdust, fuel oil, and gasoline. From 1967 to present, the former Sunset Fuel property has been used by retail and wholesale businesses, utilizing the large site building. The Pacific Pride site was developed by Sunset Fuel Company to dispense heating oil and motor fuels from 1967 to the present time. An Oregon Department of Transportation (ODOT) right-of-way separates the two properties.

Former Sunset Fuels Site 6140 SW Macadam Ave.

Releases of diesel fuel and fuel oil occurred at the Former Sunset site. The diesel fuel and fuel oil releases have impacted near-surface soil and groundwater in the area of the Grand + Benedicts' south parking lot. Diesel fuel released to groundwater has migrated off-site a short distance to the east, beneath the Metro and TriMet railroad right of way.

Pacific Pride Site 6230 SW Macadam Ave.

Historic releases of gasoline and diesel fuel from the underground tank system at the Pacific Pride site have impacted soil and groundwater. Impacted soil appears to be limited to the vicinity of the fueling station.

The gasoline release to groundwater from the Pacific Pride site, has migrated down slope and off-site to the east. Detections of gasoline constituents have been identified in one groundwater monitoring well near the shoreline of the Willamette River. Diesel fuel has impacted groundwater in the vicinity of Pacific Pride site, and has migrated onto the Former Sunset Fuels site, where it appears to join with other diesel releases from that site. The City of Portland storm sewer beneath SW Carolina Street has not been affected by releases of gasoline and diesel fuel.

Site Investigation

DEQ has worked with the former owner of the two sites to investigate the impact of various fuel types in the subsurface. The area has been characterized through use of 16 groundwater monitoring wells and multiple soil borings. The monitoring wells have been routinely sampled for many years, allowing trends in contaminant concentrations in groundwater to be evaluated. Limited groundwater cleanup has been performed in some monitoring wells on the former Sunset Fuels properties to remove gasoline and diesel contamination.

Evaluating Risk in Decision Making

DEQ has evaluated contaminant trends and concentrations remaining in soil and groundwater at the former Sunset Fuels sites and off-site areas. Based on analytical laboratory data, the concentrations of remaining contaminants are very low and do not pose an appreciable risk to humans or to animals and plants. To evaluate risk, DEQ evaluates where remaining contaminants are located, (i.e. in groundwater) and how a person might come in contact with that groundwater (i.e. an excavation worker). DEQ has considered this example and urban residential exposure scenarios and has determined that the very low concentrations of contaminants remaining at the former Sunset Fuels sites and off-site areas do not constitute a risk that requires any further action.

Next steps

When the fuel system at the Pacific Pride card lock is decommissioned at some point in the future, DEQ will require that due diligence sampling be performed at that time to determine the need for cleanup of soil or groundwater. These future decisions will be made independent of this no further action determination.

If I receive a sufficient number of requests, DEQ will hold a public meeting to further discuss these sites and DEQ's process of using risk and exposure routes to determining acceptable conditions and provide the basis of a no further action decision. I can be reached by telephone at (503) 229-6015 or at Thiessen.Kenneth@deq.state.or.us. Please contact me before December 2, 2013, with questions, concerns, or to request a public meeting.

Sincerely,

Kenneth Thiessen, Hydrogeologist
DEQ NWR Cleanup Section
File: ECSI 4723, 4772

Appendix A: Excerpt from June 3, 2013 Technical Memorandum by Feigi & Associates, Inc.

Methods and Results of Additional Sampling Methodology Assessment of Groundwater in Monitoring Wells MW-3 and MW-7 - Former Sunset and Pacific Pride Sites

Sampling Methodology

On May 10, 2013 FAI performed side-by-side sampling of groundwater in monitoring wells MW-3 and MW-7 utilizing both low flow and bailer purge methods.

Sampling Results

General groundwater analytical results for the May 10, 2013 comparative sampling methodology assessment, are presented below.

MW-3

- Laboratory analysis for NWTPH-Dx of the low flow purge sample (MW3-P), indicated diesel at 8.69 milligrams per liter (mg/L) and non-detect for oil.
- Laboratory analysis for NWTPH-Dx of the bailer purge sample (MW3-B), indicated diesel at 253 mg/L and non-detect for oil.
- Laboratory analysis NWTPH-Gx indicated similar detections of gasoline range hydrocarbons in both the low flow (MW3-P) and bailer (MW3-B) purge method samples. Sample detections did not exceed the applicable DEQ Risk Based Concentrations (RBCs) established for the site in either sample.
- Laboratory analysis for PAHs did not indicate any constituent in excess of applicable RBCs established for the site in either the low flow (MW3-P) or bailer (MW3-B) purge samples. However, the sample collected utilizing the bailer purge and sample method (MW3-B) indicated a very large increase in the levels of detection compared to the sample collected low flow purge and sample method (MW3-P).
- Laboratory analysis for VOCs indicated consistent levels of detection for both the low flow (MW3-P) and bailer (MW3-B) purge samples. VOC constituents that were detected were consistent with historic results and did not exceed applicable RBCs established for the site in either sample.
- Laboratory analysis for Total and Dissolved Metals indicated consistent levels of detection for both the low flow (MW3-P) and bailer (MW3-B) purge samples from both wells. Metals that were detected did not exceed the applicable RBCs established for the site in either sample.

MW-7

- Laboratory analysis for NWTPH-Dx of the low flow purge sample (MW7-P),

indicated diesel at 2.12 mg/L and non-detect for oil.

- Laboratory analysis for NWTPH-Dx of the bailer purge sample (MW7-B), indicated diesel at 158 milligrams per liter (mg/L) and non-detect for oil.
- Laboratory analysis NWTPH-Gx indicated a higher detection of gasoline range hydrocarbons for the sample collected utilizing the bailer purge and sample method (MW7-B). However, sample detections utilizing the low flow (MW7-P) or bailer (MW7-B) purge and sample method did not exceed the applicable RBCs established for the site and were consistent with historic results.
- Laboratory analysis for PAHs did not indicate any constituent in excess of applicable RBCs established for the site in either the low flow (MW7-P) or bailer (MW7-B) purge samples. However, the sample collected utilizing the bailer purge and sample method (MW7-B) indicated a large increase in the levels of detection compared to the low flow purge and sample method.
- Laboratory analysis for VOCs indicated consistent levels of detection for both the low flow (MW7-P) and bailer (MW7-B) purge and sample methods. VOC constituents that were detected were consistent with historic results and did not exceed the applicable RBCs established for the site in either sample.
- Laboratory analysis for Total and Dissolved Metals indicated consistent levels of detection for both the low flow (MW7-P) and bailer (MW7-B) purge and sample methods. Metals that were detected did not exceed the applicable RBCs established for the site in either sample.

State of Oregon

Department of Environmental Quality

Memorandum

Date: December 20, 2013

To: Northwest Region File

From: Kenneth Thiessen, NW Region Cleanup Section

Subject: No Further Action Recommendations
Former Sunset Fuels/Pacific Pride Sites
ECSI #4723 and #4772

Purpose

This memo provides the basis for a recommended No Further Action (NFA) determination for the two adjacent properties located at 6140 and 6230 SW Macadam Avenue in Portland, Oregon.

Background

Both the former Sunset Fuels Site (6140 SW Macadam Avenue, Environmental Cleanup Site Information (ECSI) #4723, Tax Lot 100) and Pacific Pride Site (6230 SW Macadam Avenue, ECSI #4772, Tax Lot 200) are located at the northeast corner of the intersection of SW Carolina Street and SW Macadam Avenue, in the John's Landing area of Portland, Multnomah County, Oregon (see Figures 1 and 2 included with this memo). The Willamette River is located approximately 300 feet east of the site.

The sites are the former location of an auto wrecking yard (Mesher/Union Auto Wrecking Co. 1930-35), and a former boat building facility (Willamette Boat & Manufacturing Co. 1936-41). The property was subsequently developed by Sunset Fuel Company from about 1950 to about 1967 for use as a retail fuel distribution facility including wood, coal, sawdust, fuel oil, and gasoline. The bulk fuel storage facility was demolished in the mid-1960s and replaced with a 22,400 square foot warehouse building in 1967. This building has been modified, and is currently used by the Grand + Benedicts for business fixture sales, business design services, and commercial product design services. The adjacent Pacific Pride site was developed by Sunset Fuel Company for the purposes of dispensing heating oil and motor fuels from at least 1967 to present. In 1983, the Pacific Pride franchise began leasing the property to dispense gasoline and diesel fuel as a card lock facility, which continues currently.

In 2007, Sunset Fuels requested that Department of Environmental (DEQ) assign two ECSI numbers to the two sites to better characterize the separate site operational histories, investigative requirements, and the different stages of site investigation. Subsequently, the subsurface contaminant plumes from the two sites merged, and have been characterized and evaluated in parallel.

Records from the City of Portland and DEQ indicate that up to 15 underground storage tanks (USTs) were installed at both sites, starting in 1954. There are currently three operational gasoline USTs and one diesel fuel UST in use at the Pacific Pride card lock fueling facility. UST records indicate that four tanks were installed at the Pacific Pride fueling facility in 1967 and that these tanks were replaced in 1982 and again in 1990.

The Locality of Facility affected by releases from the former Sunset Fuels sites includes: the Pacific Pride vehicle fueling station, an Oregon Department of Transportation easement east of the fueling station, the Grand + Benedicts' south parking lot, the TriMet/Metro railroad right-of-way, City of Portland roadways and sewers, the Willamette Sailing Club, River Point Condominiums, and the Willamette River (see Figure 2).

Site Investigations

In September 1994, a gasoline and diesel fuel release was discovered during UST system upgrades at the Pacific Pride vehicle fueling station. The release was reported to DEQ by Sunset Fuels at that time. From 1994 to 2013, multiple on-site and offsite subsurface investigations were performed to determine the nature and extent of contamination associated with the release, and to search for secondary contamination sources. Subsurface investigation sampling locations are shown on Figures 2 and 3.

Environmental investigation work at the combined sites included

- Installation of eight on-site and eight off-site monitoring wells,
- Installation and sampling of approximately 46 soil borings during multiple stages of site investigation,
- Multiple groundwater monitoring and sampling events,
- Laboratory analysis and reporting of analytical results,
- Geophysical testing to search for additional buried contaminant sources,
- Interim remedial measures including removal of petroleum-contaminated soil from a cathodic protection trench, removal of free product (diesel) in well MW-3, and use of sorbent socks to remove petroleum sheen from wells MW-7 and MW-8.
- Decommissioning and removal of three unused gasoline USTs, appurtenances, and limited contaminated soil west of Grand + Benedicts' building,
- Investigations on adjacent properties were performed to delineate the off-site extent of contaminant migration via groundwater, and to evaluate human health and ecological risk.

Contributing Site Investigations

- Chlorinated solvents, tetrachloroethene (PCE), trichloroethylene (TCE) and breakdown products have been detected in groundwater south (cross-gradient) of the Pacific Pride site, beneath SW Carolina Street, and at the former Sunset Fuels site. These detections resulted in a preliminary subsurface soil, groundwater, and storm sewer investigation of upgradient JC Cleaners, a former dry cleaning business located at 6141 SW Macadam Blvd., Suite 101 (ECSI# 4724). This investigation indicated that JC Cleaners had not released chlorinated solvents to the environment and is not the source of PCE and TCE at the Macadam Sunset sites. JC Cleaners was given a No Further Action letter by DEQ on September 15, 2009.
- In August 2010, a soil gas investigation was performed to evaluate if volatile organic compounds (VOCs) from Sunset Fuels Site present a vapor intrusion risk to the occupational workers within the 22,400 square foot warehouse building currently owned by Grand + Benedicts. Three soil gas sampling points were installed to a depth of five feet adjacent to the south side of the building. Soil vapor samples were collected and analyzed for VOCs using Method TO-15 modified for gasoline and dry cleaning solvents. Detected VOCs (tetrachloroethene and m, p-xylene) were found at concentrations well below their respective Risk Based Criteria for the Soil Gas Vapor Intrusion into Buildings pathway for occupational receptors (Soil gas (SG) sampling locations are shown on Figure 3).
- A 63-inch diameter, 100-year old, wooden municipal storm sewer pipe runs past both sites beneath SW Carolina Street within the LOF. Feige and Associates, Inc. (FAI) evaluated this storm sewer as a possible preferential pathway for PCE/TCE migration onto the sites from upslope source areas. Video inspection records indicated generally poor conditions of the storm sewer pipe beneath SW Carolina Street. The evaluation included comparing pipe elevation with water table levels. The water table elevation is generally about three feet above the inside elevation of the storm sewer pipe. Silty sand and silty gravel are present as pipe backfill. However, dry weather flow within the pipe was not observed in a manhole located downgradient of the site.

Shoreline monitoring well MW-12 is installed in storm sewer pipe backfill approximately 400 feet downgradient from the Pacific Pride site. The sole contaminant detected in groundwater from MW-12 is methyl tertiary butyl ether (MTBE) (maximum concentration 7 µg/l, April 2010). Other site data indicates that MTBE is moving with groundwater generally to offsite areas and is not restricted to the storm sewer backfill. These findings suggest that it is unlikely that the storm sewer pipe or surrounding backfill is providing a conduit for the downgradient movement of site contaminants.

Remedial Investigation

A **Remedial Investigation Report** was submitted for the combined former Sunset Fuels and Pacific Pride sites by FAI on August 22, 2012. A summary of remedial investigation findings is presented below.

Former Sunset Fuels Site

Two separate releases of diesel-range hydrocarbons have occurred at the former Sunset Fuels site. The releases have impacted onsite soil and onsite groundwater as well as off-site groundwater downgradient (east) of the site. Historic operations at the site suggest that the diesel-range hydrocarbons were from historic storage and handling of stove oil. Diesel-range contaminant plumes in groundwater have been delineated to areas near their apparent sources, and appear to have migrated only a short distance off-site. Diesel-range fuel atop groundwater has been observed seasonally in monitoring well MW-7 during periods of low water table conditions. Soil borings completed near MW-7 did not identify the source of the diesel-range fuel. Monitoring well MW-8 historically produced saturation-level concentrations of hydrocarbons (Figure 4), indicating that localized petroleum product may be present.

Pacific Pride Site

Historic releases of gasoline and diesel from the UST system at the Pacific Pride site have impacted soil and groundwater. Soil impacts from the releases are limited to the Pacific Pride site and the adjacent former Sunset Fuels site.

The dissolved gasoline-phase groundwater plume from the Pacific Pride site has migrated off-property. The plume has been delineated by detections of benzene, identified in groundwater monitoring wells in the area of the railroad tracks east of the Former Sunset Fuels site (MW-8, MW-9), and detections of MTBE, identified in groundwater monitoring wells near the shoreline of the Willamette River (MW-12). The diesel release has impacted groundwater in the vicinity of Pacific Pride site, and has combined with diesel plumes originating at the Former Sunset Fuels site.

Figures showing the nature and extent of fuel contamination associated with the site are presented as Figures 4 through 7 at the end of this memo.

Remedial Investigation and Risk Assessment Conclusions

- Up to three historic releases of diesel-range hydrocarbons have been identified at the combined sites. Groundwater impacts from the diesel releases co-mingle on the former Sunset Fuels site. The releases have impacted onsite groundwater in the area of monitoring wells MW-6, MW-7, MW-8 and MW-14, and off-site groundwater east of the site (MW-9, MW-15, and MW-16) as shown in Figure 4.
- Based on multiple lines of evidence, low-level detections of total PAHs, gasoline, diesel, and oil identified in Willamette River shoreline monitoring wells (MW-10, MW-11, and MW-12) do not appear to be related to releases at the former Sunset Fuels or Pacific Pride sites (see *Remedial Investigation Report*. FAI 2012, pp. 19– 22 for further discussion).
- Gasoline and gasoline constituents: benzene, toluene, ethylbenzene, xylenes, released from the former Sunset Fuels and Pacific Pride sites has been found in off-site groundwater wells MW-9 and MW-16, within in the railroad right-of-way downgradient of the site. This limited offsite extent may indicate the action of natural attenuation processes (see Figure 6 showing the benzene plume configuration)

- The gasoline oxygenate MTBE has been detected at offsite well MW-12 located on the river shoreline at the Willamette Sailing Club, approximately 400 feet downgradient from the Pacific Pride site. No other gasoline constituents have been detected in monitoring well MW-12. This greater (400 foot) extent of the MTBE plume is expected to be associated with the mobility of this compound and limited potential for biodegradation (see Figure 7 showing the MTBE plume).
- The Beneficial Land and Water Use Determination (BLWUD) indicates that there are no beneficial uses of groundwater within the LOF.
- An ecological risk assessment (ERS) completed by Kennedy/Jenks in 2012 indicated that the potential for current risks to aquatic ecological receptors from the groundwater contaminant plumes sourced from the site is minimal. No significant concentrations of site-related contaminants reach the Willamette River, and there are no other surface water bodies within the impacted area. The storm sewer beneath SW Carolina St. is not a preferential migration pathway concern.
- The results of the human health risk assessment (HHRA) completed by Kennedy/Jenks in 2012 indicates that there are no cumulative risk exceedances for construction or excavation worker exposure to groundwater within the vicinity of the sites. However, benzo(a)pyrene exceeded the target risk level for individual chemical exposure scenarios for groundwater in the Site vicinity. In addition, the HHRA concluded that groundwater contaminant concentrations for diesel-range hydrocarbons and heavy oil-range hydrocarbons in the Site vicinity are greater than the water solubility limits, indicating the potential presence of free product.
- The general Hot Spot evaluation for groundwater and soil indicated the following:
 - As there are no impacts to beneficial uses of water from the site, there are no groundwater hot spots.
 - Highly concentrated hot spot levels are not present in soil samples.
 - As soil and groundwater concentrations within the Locality of Facility do not exceed DEQ Risk-Based Criteria for reasonably likely exposures, there are no highly concentrated hot spots for media other than water.
 - As leaching of the contaminant mass to groundwater cannot impact beneficial use of groundwater, there are no highly mobile hot spots for media other than water.

DEQ Request for Hot Spot Evaluation

In a comment letter dated June 4, 2012, DEQ requested that a groundwater hot spot evaluation be performed and included in a Focused Feasibility Study for the two sites. DEQ had concerns that periodic measurable diesel-range hydrocarbons and dissolved concentrations of petroleum indicative of separate phase product may persist in MW-3 and MW-7. Based on DEQ's request, the wells were resampled using low flow purging and sampling techniques. Re-sampling identified concentrations of dissolved diesel-range hydrocarbons in the wells below (saturation) concentrations indicative of free product. Two sampling events were performed using the low flow purging and sampling techniques which provided a more reliable determination of dissolved concentrations of site Contaminants of Interest. The comparative groundwater data by sampling method are presented in Appendix A of this document.

This hot spot evaluation concluded that any diesel-range hydrocarbons on groundwater in the vicinity of MW-3 and MW-7 is residual and reliably contained based on the following factors:

- The age of the releases at both the Pacific Pride and former Sunset Fuel sites.
- Source releases have been stopped.
- The absence of a significant measurable product thickness head to drive lateral flow.
- Retaining capillary forces of site soils appear to be adequate to retard or stop lateral flow of residual fuel and oil.
- Fuel is no longer recoverable in MW-3 and only seasonally recoverable in MW-7.
- Dissolved concentrations of VOCs and Polycyclic Aromatic Hydrocarbons (PAHs) are below applicable risk-based criteria for groundwater at the site.

Focused Feasibility Study

A Focused Feasibility Study (FFS) dated August 8, 2013, prepared by FAI at DEQ's request identified Remedial Action Objectives (RAOs), presented and screened General Response Actions, and then developed three remedial action alternatives for detailed analysis to address petroleum product in the vicinity of wells MW-3 and -7. The alternatives were evaluated according to Oregon regulations for their ability to (1) protect public health, safety, welfare and the environment, (2) balance remedy selection factors (effectiveness, long-term reliability, practicality, implementation risk, reasonableness of cost), and (3) treat hot spots of contamination in media other than water by reducing their concentration, volume, or mobility to the extent practical. A numerical scoring system was used to rate each alternative. The alternatives were then compared with each other, using the same three evaluation criteria and the numerical scores.

Remedial options considered for the site included No Action (Alternative 1), Surfactant-Enhanced subsurface Remediation with Institutional Control (Alternative 2), and Excavation (Alternative 3). Based on the evaluation, Alternative 1 (No Action) was proposed by FAI.

The FFS was reviewed and approved by DEQ. The proposed remedial action to address free product in wells MW-3 and MW -7, was subsequently approved by DEQ. It was determined by DEQ that given the results of more recent sampling, significant (recoverable) free product is not present in site wells, and that subsurface contamination is stable and does not pose a significant risk to public health or the environment. This "alternative" is protective, meets the preference for treating hot spots of contamination criteria (i.e. residual light non-aqueous phase liquid is reliably contained), and has the highest remedy balancing factor average. Note that because a decision was made that no action is necessary, a Record of Decision was not completed by DEQ. A residual risk analysis was completed and is discussed below.

Residual Risk Assessment

In accordance with OAR 340-122-084(4), a Residual Risk Assessment (RRA) was prepared to evaluate residual petroleum product present at the site. The purpose of the RRA is to estimate

the risks to human health and the environment that may be present associated with the “no action” proposal.

As detailed in the FFS, the sampling methodology assessments, which were completed in December 2012 and May 2013, indicate that the previously used bailer-purge groundwater sampling method was the basis for reported high concentrations of diesel and PAHs historically observed in both monitoring wells MW-3 and MW-7.

The results of the additional sampling using the newer sampling methodology indicate that groundwater Contaminants of Potential Concern (COPCs) (i.e. benzo(a)pyrene) are below the applicable RBCs established for the site, and diesel concentrations are not indicative of “free product” in either monitoring well MW-3 or MW-7. In addition, any residual diesel-range contaminants in the vicinity of MW-3 and MW-7 are reliably contained and there is no continued lateral migration of residual diesel-range contaminants as the sources of contaminants in both areas are no longer active.

DEQ Conclusions and Closeout Activities

DEQ staff has concluded that no further action is necessary at the former Sunset Fuels Site (6140 SW Macadam Avenue, ECSI #4723) and the adjacent Pacific Pride Site (6230 SW Macadam Avenue, ECSI #4772). DEQ approves the August 2013 Focused Feasibility Study for these sites and accepts the conclusion that work is complete and that no additional site action is necessary. Since only limited, interim remedial actions were completed at the sites, no general public notice of this NFA determination is necessary. As a focused public outreach effort, DEQ presented a proposed NFA summary letter to site neighbors potentially affected by offsite trespass of contaminants from the Sunset Fuels/Pacific Pride sites. A copy of the NFA summary letter is attached to this document.

Through site investigations, Remedial Investigation, Risk Assessments and Focused Feasibility Study work, DEQ was able to determine that petroleum contamination remaining in the subsurface is residual, is reasonably contained, and does not present an unacceptable risk. No deed restrictions on property use are planned with this NFA conclusion.

DEQ also proposes removal of both sites from the Confirmed Release List (CRL) and Inventory. Public notice of DEQ’s intent to de-list the sites will be issued in January 2014 with a 30-day public comment period ending January 31, 2014. A final decision on this proposed NFA will be made by DEQ’s NWR Cleanup Section Manager pending review of public comments received. Following this final decision, ECSI will be updated to document that no further action is necessary at these two sites.

Attachments

- Figure 1. Site Location Map
- Figure 2. Site Features and Groundwater Monitoring Well Location Map
- Figure 3. Historic Features, Current Investigation Locations
- Figure 4. March 2011 Diesel Isoconcentration Map
- Figure 5. March 2011 Groundwater Analytical Results Map
- Figure 6. March 2011 Benzene Isoconcentration Map
- Figure 7. March 2011 MTBE Isoconcentration Map
- NFA summary letter to site neighbors
- Appendix A: Excerpt from June 3, 2013 Technical Memorandum by Feigi & Associates, Inc.

References

Feige and Associates, Inc. (FAI), August 8, 2013. *Focused Feasibility Study Report*, Former Sunset Fuel/Pacific Pride Site, 6140 and 6230 SW Macadam Avenue, Tax Lots 100, 200, Portland, Oregon 97239

Feige and Associates, Inc. (FAI), June 3, 2013. Technical Memorandum. *Methods and Results of Additional Sampling Methodology Assessment of Groundwater in Monitoring Wells MW-3 and MW-7 - Former Sunset Fuel/Pacific Pride Sites.*

Feige and Associates, Inc. (FAI), August 20, 2012. *Remedial Investigation Report*, Former Sunset Fuel/Pacific Pride Site.

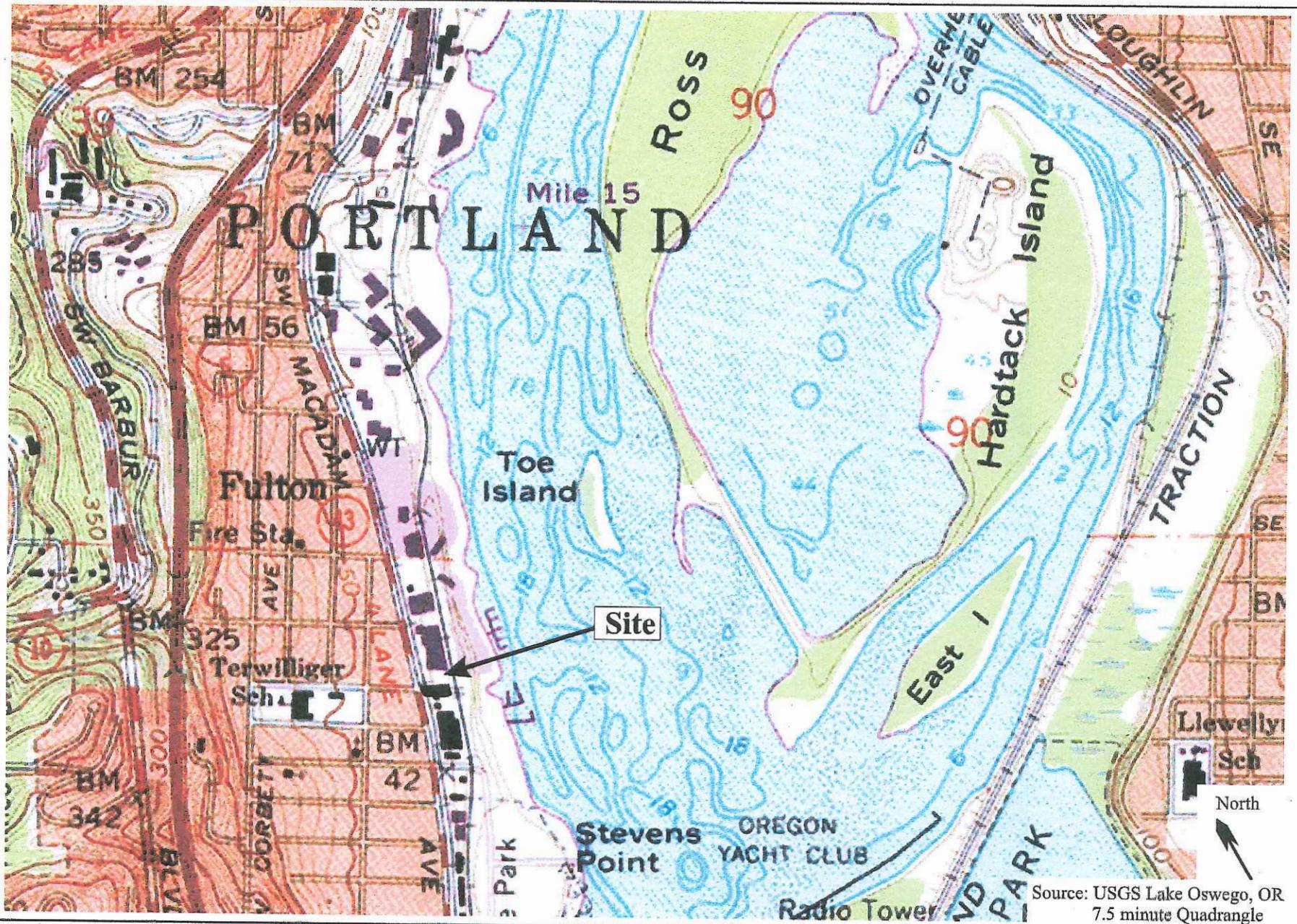
Kennedy/Jenks Consultants, 2012 (a). *Ecological Risk Screening*, Former Sunset Fuel, Pacific Pride Fueling Station Site, ECSI #4723 (Former Sunset Fuel) and #4772 (Pacific Pride).

Kennedy/Jenks Consultants, 2012 (b). *Human Health Risk Assessment* for the Former Sunset Fuel and Pacific Pride Fueling Station, FINAL.

DEQ, 2012. *DEQ Comments on Draft Remedial Investigation and Risk Assessment Documents, Sunset Fuel/Pacific Pride 6130 & 6230 SW Macadam Ave. Portland, Oregon ECSI 4723 & 4772.* June 4.

Feige and Associates, Inc. (FAI), October 16, 2010. *Soil Gas Investigation Results*, Macadam Floor Design Property, 6140 SW Macadam Blvd. DEQ ECSI# 4723.

NWR Cleanup Files, ECSI 4723, 4772



Feige & Associates, Inc.

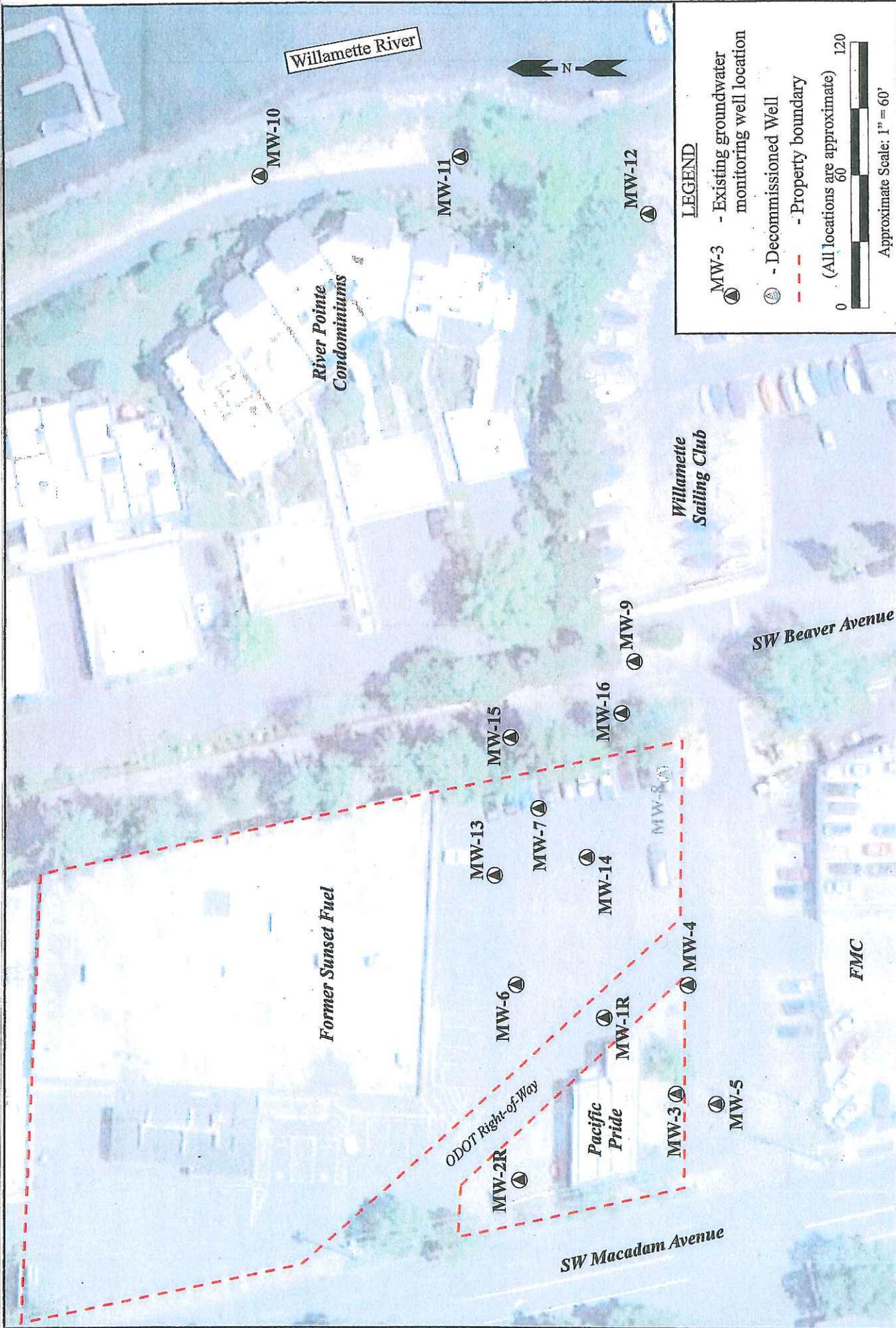
27001 NW St. Helens Rd.
Scappoose, Oregon 97056

Phone: (503) 543-9700
Fax: (503) 543-8757

Former Sunset Fuel/Pacific Pride
6140 and 6230 SW Macadam Ave.
Portland, Oregon

Site Location Map

Figure **1**



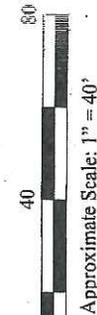
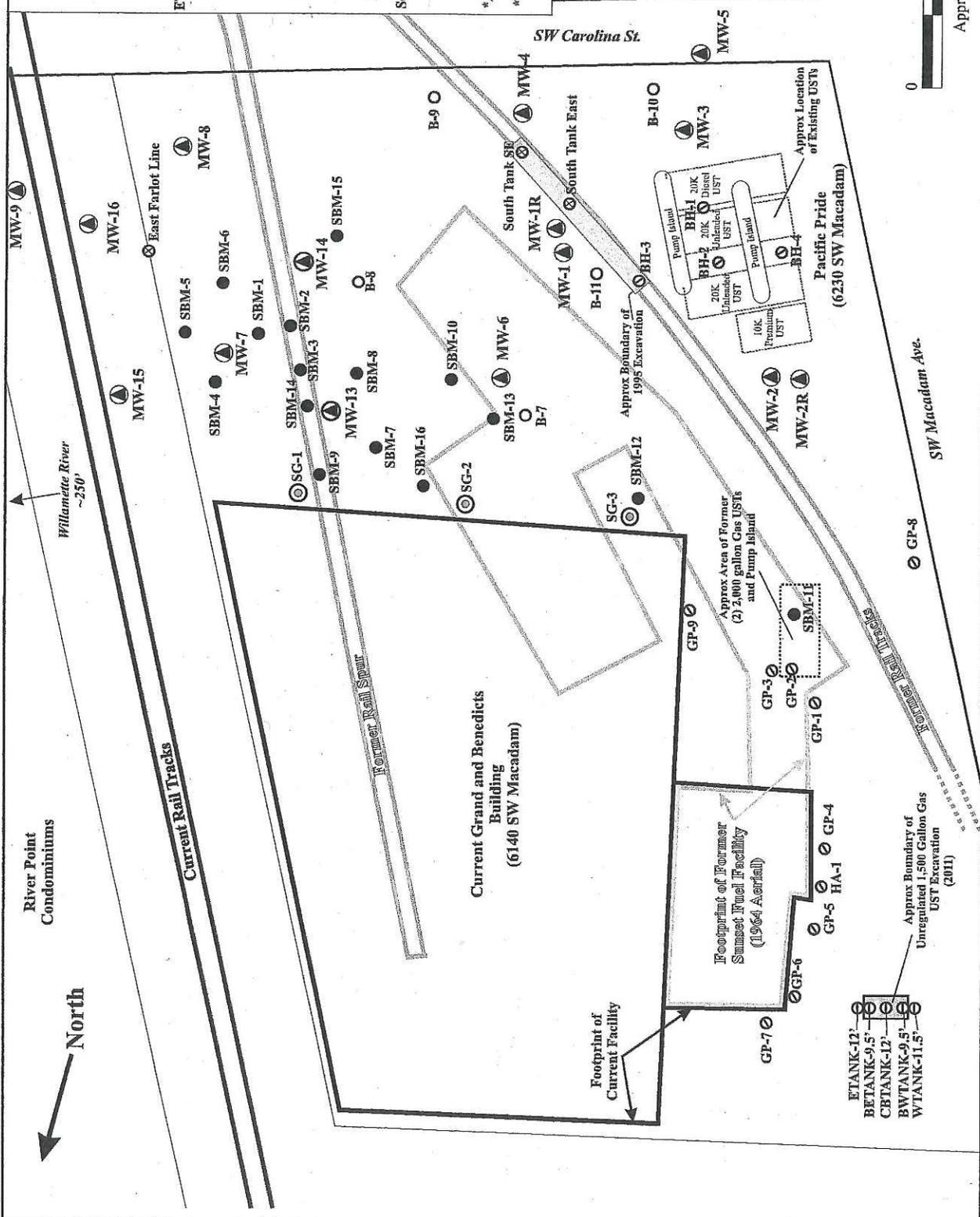
Former Sunset Fuel/Pacific Pride
6140 and 6230 SW Macadam Ave.
Portland, Oregon

Feige & Associates, Inc.
27001 NW St. Helens Rd.
Seaside, Oregon 97056
Phone: (503) 543-9700
Fax: (503) 543-8757

LEGEND

- ⊙ Existing Monitoring Well
MW-1
- ⊙ Soil Boring (2011)
GP-4
- ⊙ Confirmation Sample (2011)
ETANK-12' (UST Decommissioning)
- ⊙ Soil Gas Monitoring Point (2011)
SG-1
- Soil Boring (2006)
SBM-15
- Soil Boring (2001)
B-8
- ⊙ Soil Boring (1995)
South Tank SE
- ⊙ Soil Boring (1994)
BH-3

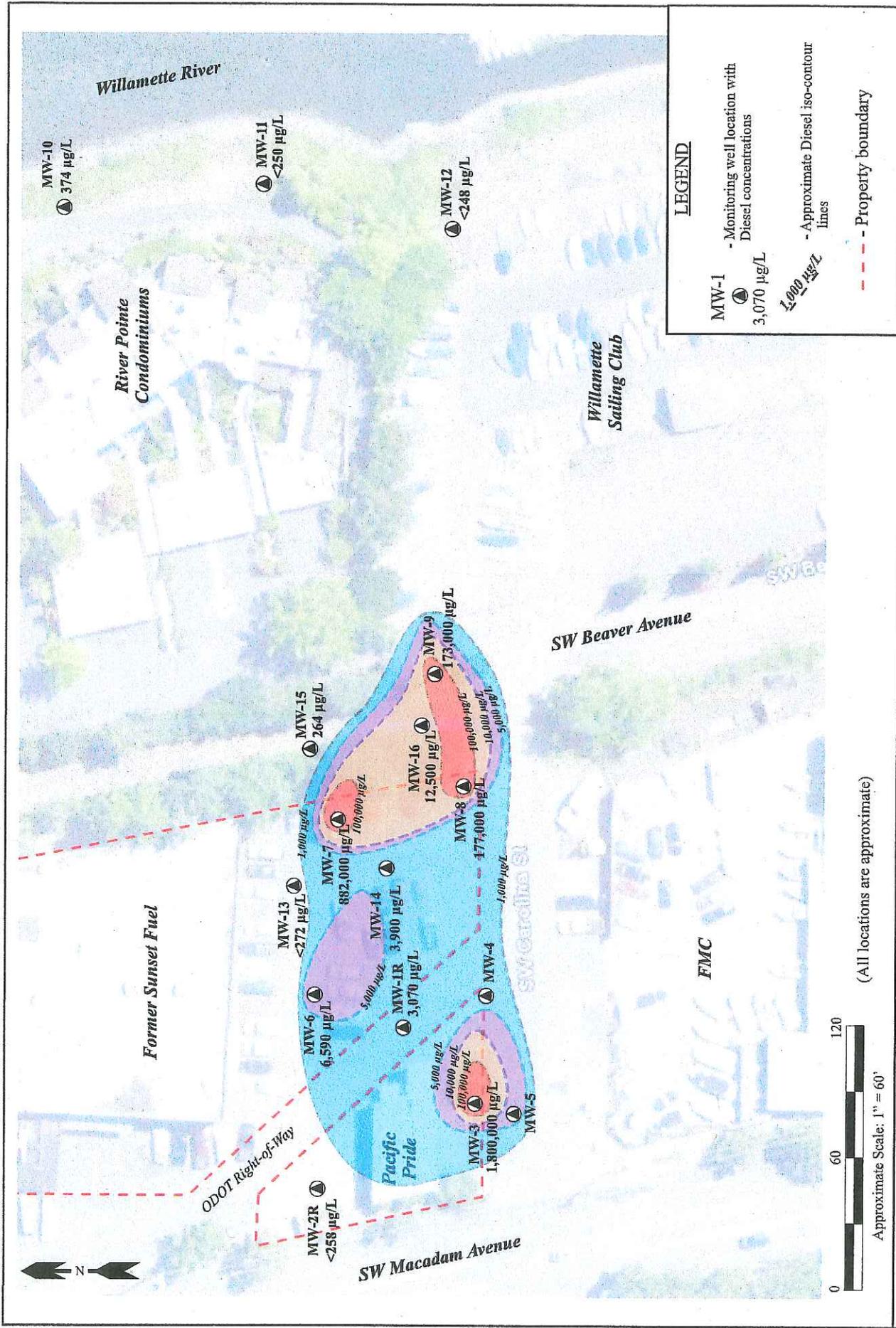
*All Locations are Approximate
** Borings MW-10, MW-11, and MW-12 are not shown on this map



**Historic Investigation Locations -
Current Site Map with Overlay
of 1964 Site Facility Features**

Former Sunset Fuel/Pacific Pride
6140 and 6230 SW Macadam Ave.
Portland, Oregon

Feige & Associates, Inc.
2700 NW St. Helens Rd.
Scappoose, Oregon 97056
Phone: (503) 543-9700
Fax: (503) 543-8757

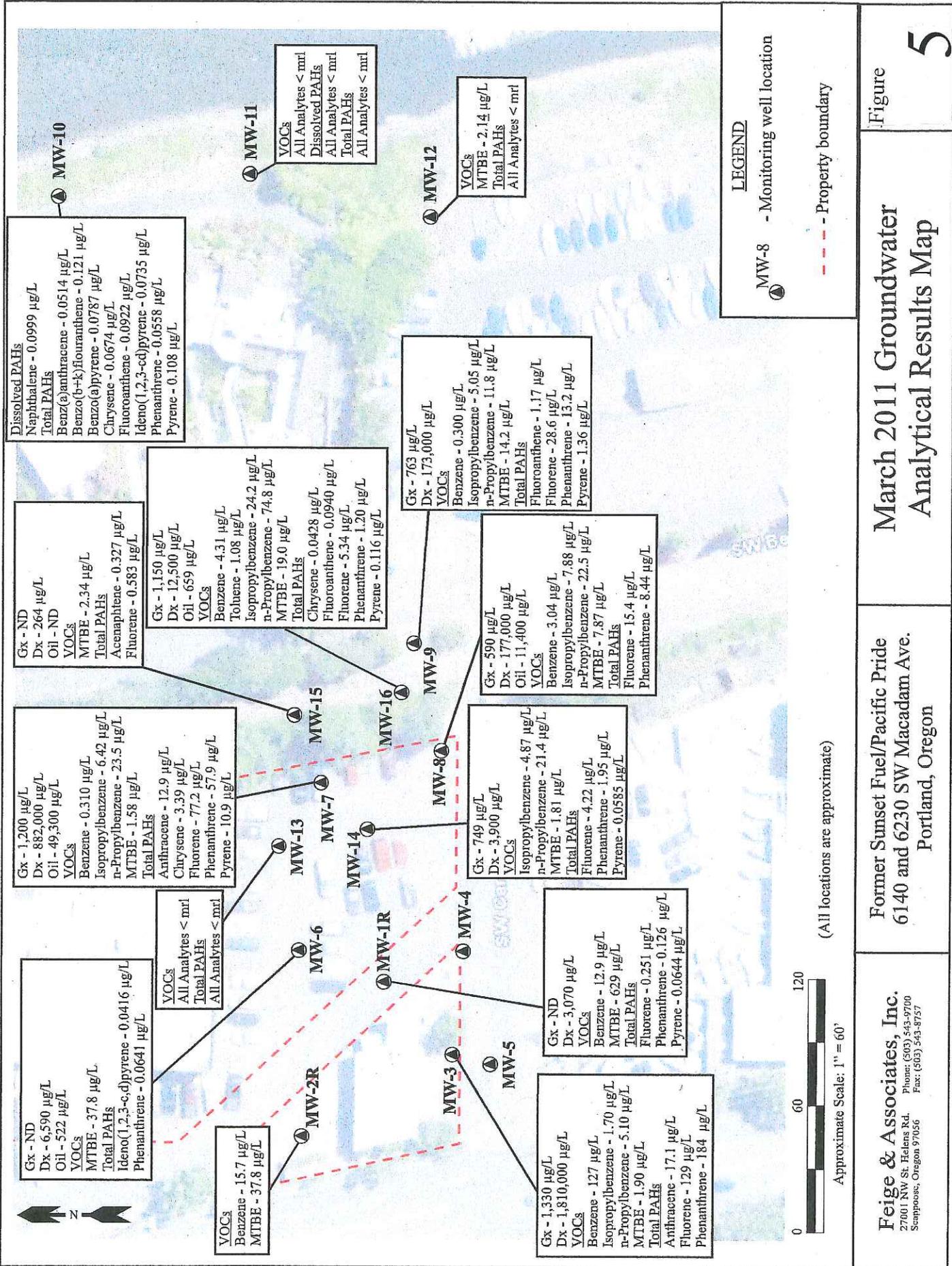


Former Sunset Fuel/Pacific Pride
6140 and 6230 SW Macadam Ave.
Portland, Oregon

March 2011 Diesel
Isoconcentration Map

Figure 4

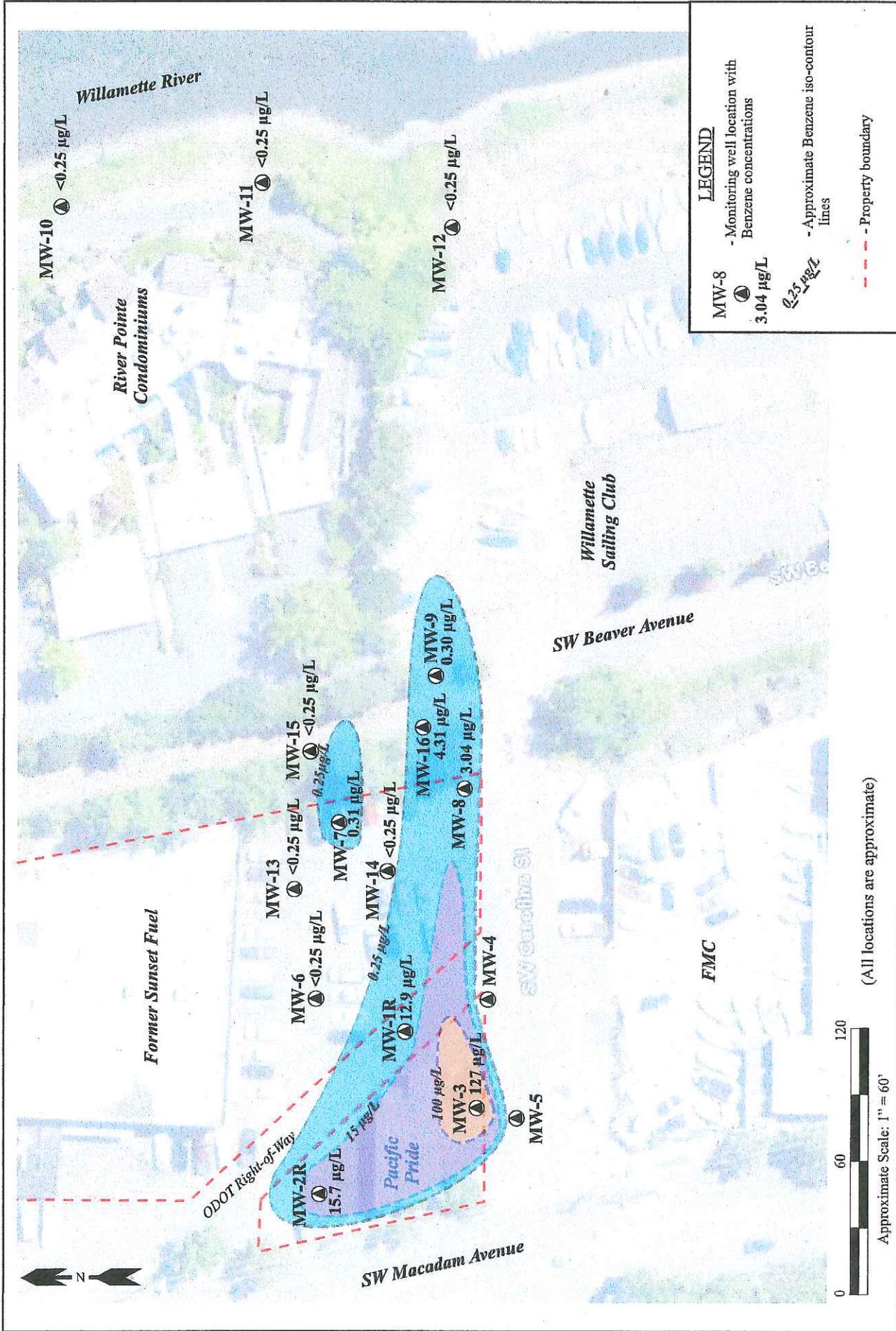
Feige & Associates, Inc.
27001 NW St. Helens Rd.
Scappoose, Oregon 97056
Phone: (503) 543-9700
Fax: (503) 543-8737



Feige & Associates, Inc.
 27001 NW St. Helens Rd. Phone: (503) 543-9700
 Scappoose, Oregon 97056 Fax: (503) 543-9757

Former Sunset Fuel/Pacific Pride
 6140 and 6230 SW Macadam Ave.
 Portland, Oregon

March 2011 Groundwater Analytical Results Map



Feige & Associates, Inc.
 27001 NW St. Helens Rd.
 Scappoose, Oregon 97056
 Phone: (503) 543-9700
 Fax: (503) 543-8757

Former Sunset Fuel/Pacific Pride
 6140 and 6230 SW Macadam Ave.
 Portland, Oregon

March 2011 Benzene
 Isoconcentration Map

Figure 6

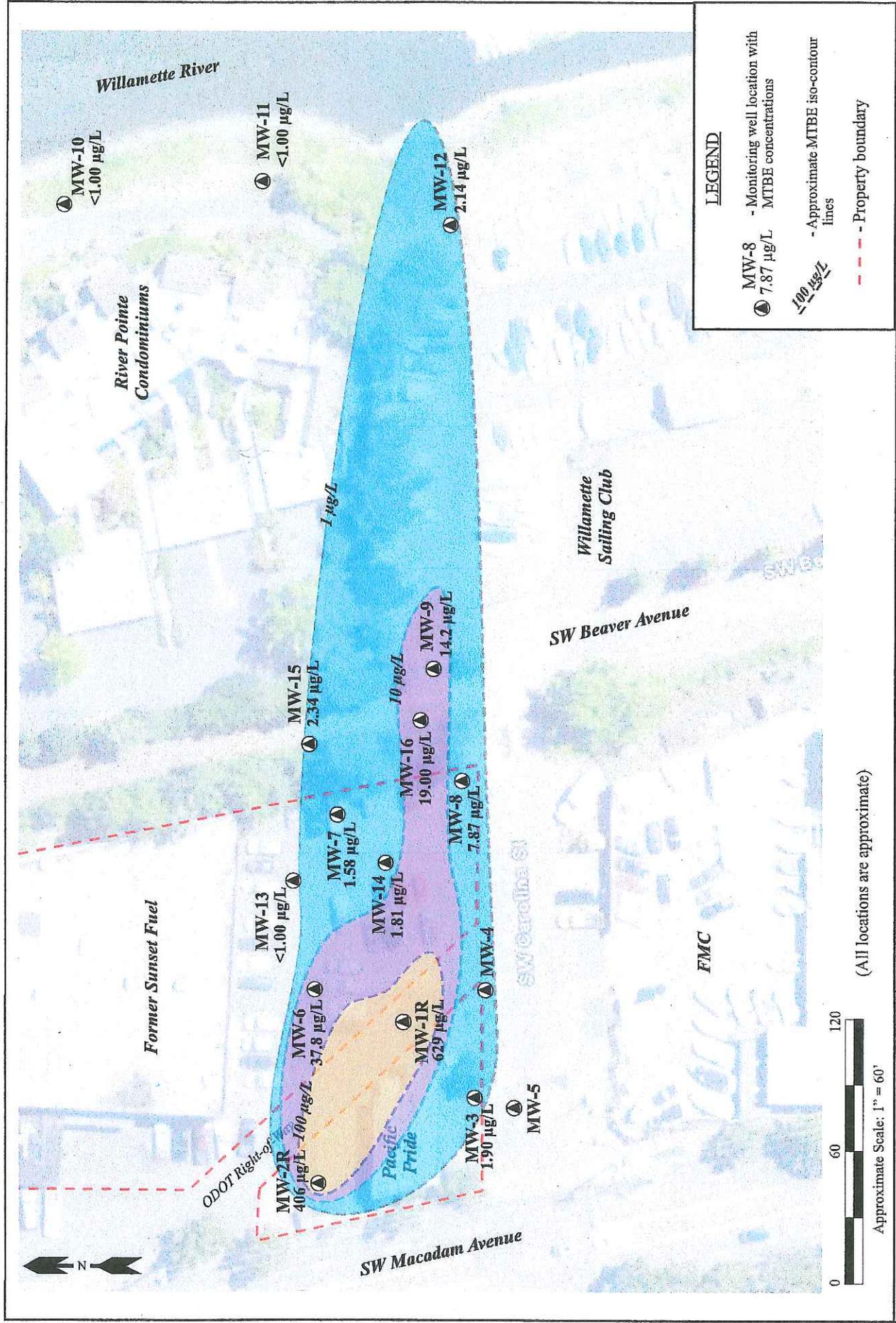


Figure 7

March 2011 MTBE Isoconcentration Map

Former Sunset Fuel/Pacific Pride
6140 and 6230 SW Macadam Ave.
Portland, Oregon

Feige & Associates, Inc.
27001 NW St. Helens Rd.
Scamposse, Oregon 97056
Phone: (503) 543-9700
Fax: (503) 543-8757



Oregon

John A. Kitzhaber, MD, Governor

Department of Environmental Quality

Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400

Portland, OR 97201-4987

(503) 229-5263

FAX (503) 229-5471

TTY 711

November 18, 2013

Jerry Miesen
2858 Lakeview, Blvd.
Lake Oswego, OR 97035

RE: DEQ Notice to Neighbors of No Further Action determination for 6140 and 6230, SW Macadam Ave. Portland Oregon.

Dear Mr. Miesen,

The Oregon Department of Environmental Quality is preparing to issue a No Further Action determination for two adjacent properties located at 6140 and 6230 SW Macadam Ave. Portland, Oregon. The 6140 property is currently the Grand + Benedicts building and parking lot. The 6230 property is currently a Pacific Pride card lock vehicle fueling station. I am writing to inform you of this pending decision because you have an interest in the subject property or an adjacent property.

The two properties were previously developed and used by the Sunset Fuel Company from about 1950 to about 1967 for use as a retail fuel distribution facility which included firewood, coal, sawdust, fuel oil, and gasoline. From 1967 to present, the former Sunset Fuel property has been used by retail and wholesale businesses, utilizing the large site building. The Pacific Pride site was developed by Sunset Fuel Company to dispense heating oil and motor fuels from 1967 to the present time. An Oregon Department of Transportation (ODOT) right-of-way separates the two properties.

Former Sunset Fuels Site 6140 SW Macadam Ave.

Releases of diesel fuel and fuel oil occurred at the Former Sunset site. The diesel fuel and fuel oil releases have impacted near-surface soil and groundwater in the area of the Grand + Benedicts' south parking lot. Diesel fuel released to groundwater has migrated off-site a short distance to the east, beneath the Metro and TriMet railroad right of way.

Pacific Pride Site 6230 SW Macadam Ave.

Historic releases of gasoline and diesel fuel from the underground tank system at the Pacific Pride site have impacted soil and groundwater. Impacted soil appears to be limited to the vicinity of the fueling station.

The gasoline release to groundwater from the Pacific Pride site, has migrated down slope and off-site to the east. Detections of gasoline constituents have been identified in one groundwater monitoring well near the shoreline of the Willamette River. Diesel fuel has impacted groundwater in the vicinity of Pacific Pride site, and has migrated onto the Former Sunset Fuels site, where it appears to join with other diesel releases from that site. The City of Portland storm sewer beneath SW Carolina Street has not been affected by releases of gasoline and diesel fuel.

Site Investigation

DEQ has worked with the former owner of the two sites to investigate the impact of various fuel types in the subsurface. The area has been characterized through use of 16 groundwater monitoring wells and multiple soil borings. The monitoring wells have been routinely sampled for many years, allowing trends in contaminant concentrations in groundwater to be evaluated. Limited groundwater cleanup has been performed in some monitoring wells on the former Sunset Fuels properties to remove gasoline and diesel contamination.

Evaluating Risk in Decision Making

DEQ has evaluated contaminant trends and concentrations remaining in soil and groundwater at the former Sunset Fuels sites and off-site areas. Based on analytical laboratory data, the concentrations of remaining contaminants are very low and do not pose an appreciable risk to humans or to animals and plants. To evaluate risk, DEQ evaluates where remaining contaminants are located, (i.e. in groundwater) and how a person might come in contact with that groundwater (i.e. an excavation worker). DEQ has considered this example and urban residential exposure scenarios and has determined that the very low concentrations of contaminants remaining at the former Sunset Fuels sites and off-site areas do not constitute a risk that requires any further action.

Next steps

When the fuel system at the Pacific Pride card lock is decommissioned at some point in the future, DEQ will require that due diligence sampling be performed at that time to determine the need for cleanup of soil or groundwater. These future decisions will be made independent of this no further action determination.

If I receive a sufficient number of requests, DEQ will hold a public meeting to further discuss these sites and DEQ's process of using risk and exposure routes to determining acceptable conditions and provide the basis of a no further action decision. I can be reached by telephone at (503) 229-6015 or at Thiessen.Kenneth@deq.state.or.us. Please contact me before December 2, 2013, with questions, concerns, or to request a public meeting.

Sincerely,

Kenneth Thiessen, Hydrogeologist
DEQ NWR Cleanup Section
File: ECSI 4723, 4772

Appendix A: Excerpt from June 3, 2013 Technical Memorandum by Feigi & Associates, Inc.

Methods and Results of Additional Sampling Methodology Assessment of Groundwater in Monitoring Wells MW-3 and MW-7 - Former Sunset and Pacific Pride Sites

Sampling Methodology

On May 10, 2013 FAI performed side-by-side sampling of groundwater in monitoring wells MW-3 and MW-7 utilizing both low flow and bailer purge methods.

Sampling Results

General groundwater analytical results for the May 10, 2013 comparative sampling methodology assessment, are presented below.

MW-3

- Laboratory analysis for NWTPH-Dx of the low flow purge sample (MW3-P), indicated diesel at 8.69 milligrams per liter (mg/L) and non-detect for oil.
- Laboratory analysis for NWTPH-Dx of the bailer purge sample (MW3-B), indicated diesel at 253 mg/L and non-detect for oil.
- Laboratory analysis NWTPH-Gx indicated similar detections of gasoline range hydrocarbons in both the low flow (MW3-P) and bailer (MW3-B) purge method samples. Sample detections did not exceed the applicable DEQ Risk Based Concentrations (RBCs) established for the site in either sample.
- Laboratory analysis for PAHs did not indicate any constituent in excess of applicable RBCs established for the site in either the low flow (MW3-P) or bailer (MW3-B) purge samples. However, the sample collected utilizing the bailer purge and sample method (MW3-B) indicated a very large increase in the levels of detection compared to the sample collected low flow purge and sample method (MW3-P).
- Laboratory analysis for VOCs indicated consistent levels of detection for both the low flow (MW3-P) and bailer (MW3-B) purge samples. VOC constituents that were detected were consistent with historic results and did not exceed applicable RBCs established for the site in either sample.
- Laboratory analysis for Total and Dissolved Metals indicated consistent levels of detection for both the low flow (MW3-P) and bailer (MW3-B) purge samples from both wells. Metals that were detected did not exceed the applicable RBCs established for the site in either sample.

MW-7

- Laboratory analysis for NWTPH-Dx of the low flow purge sample (MW7-P),

indicated diesel at 2.12 mg/L and non-detect for oil.

- Laboratory analysis for NWTPH-Dx of the bailer purge sample (MW7-B), indicated diesel at 158 milligrams per liter (mg/L) and non-detect for oil.
- Laboratory analysis NWTPH-Gx indicated a higher detection of gasoline range hydrocarbons for the sample collected utilizing the bailer purge and sample method (MW7-B). However, sample detections utilizing the low flow (MW7-P) or bailer (MW7-B) purge and sample method did not exceed the applicable RBCs established for the site and were consistent with historic results.
- Laboratory analysis for PAHs did not indicate any constituent in excess of applicable RBCs established for the site in either the low flow (MW7-P) or bailer (MW7-B) purge samples. However, the sample collected utilizing the bailer purge and sample method (MW7-B) indicated a large increase in the levels of detection compared to the low flow purge and sample method.
- Laboratory analysis for VOCs indicated consistent levels of detection for both the low flow (MW7-P) and bailer (MW7-B) purge and sample methods. VOC constituents that were detected were consistent with historic results and did not exceed the applicable RBCs established for the site in either sample.
- Laboratory analysis for Total and Dissolved Metals indicated consistent levels of detection for both the low flow (MW7-P) and bailer (MW7-B) purge and sample methods. Metals that were detected did not exceed the applicable RBCs established for the site in either sample.



Oregon

Tina Kotek, Governor

Department of Environmental Quality

Northwest Region
700 NE Multnomah Street, Suite 600
Portland, OR 97232
(503) 229-5263
FAX (503) 229-6945
TTY 711

October 18, 2023

Radwan Akroush
Akroush Macadam LLC
2430 NE 163rd Avenue
Portland, OR 97230-5572

RE: Cleanup Needed for Petroleum Leak
Macadam Chevron
6230 S. Macadam Avenue, Portland, OR
DEQ File No.: 26-23-0719

Dear Radwan Akroush,

The Oregon Department of Environmental Quality (DEQ) was notified on October 16, 2023 of a petroleum leak associated with an underground storage tank system at 6230 S. Macadam Avenue, Portland, Oregon. This leak appears to have contaminated soil and/or groundwater with petroleum products.

We understand that you have current or past ownership or operational responsibility for the property and the underground storage tank system. Oregon law considers you a responsible party for environmental cleanup, and you are required to clean up this contamination to a level that protects human health and the environment. If you believe you are not a responsible party for this petroleum leak, please contact us immediately so that we can review the ownership and facility operation records for the property.

If you choose to hire and rely upon a qualified contractor or consultant, DEQ recommends that you still become familiar with Oregon's environmental cleanup requirements. A copy of the Underground Storage Tank Cleanup Manual and other guidance documents can be obtained by calling our toll-free number at 1-800-742-7878 or by visiting the following web sites:

<https://www.oregon.gov/deq/FilterDocs/USTCleanupManual.pdf>
<https://www.oregon.gov/deq/tanks/Pages/Cleanup-Guidance.aspx>

We are committed to helping you achieve a cost-effective environmental cleanup of the release from this underground storage tank system. When the cleanup of this petroleum release meets Oregon standards, DEQ will be able to close the file by issuing a "No Further Action" letter to you.

You will need DEQ oversight for your work to help you make sure that your environmental cleanup meets minimum regulatory and technical standards. Oregon law requires DEQ to invoice responsible parties for staff time spent on oversight of cleanup projects. DEQ tracks and bills for this time monthly, beginning with the reporting of the release and continuing through project oversight and final site closure. Staff time may include reviewing reports, preparing correspondence, answering technical questions, meeting with you or your contractor, site inspections, and enforcement actions.

Please complete, sign, and submit the enclosed Cost Recovery Agreement if you would like to expedite assignment of a DEQ project manager to your project. Even if you do not sign the agreement, you are still responsible for investigation and/or cleanup of the contamination, as well as for DEQ oversight costs. Note that DEQ staff workloads are heavy and there may be a delay in assigning your cleanup project to a project manager.

Please also complete and return the enclosed 20-day Report within twenty (20) days from the date of this letter, as required under Oregon Administrative Rule (OAR) 340-122-0225(3). You also have additional reporting obligations, as listed in the attachment, including due dates for various documents that you will need to provide to DEQ.

We realize that environmental cleanups are expensive and that our requirements can be difficult to understand, so please do not hesitate to contact the DEQ with any questions you may have. Please reference the DEQ file number and site name listed above in all inquiries and reports. If you have any questions, please contact our Program Coordinator, Amber Shimamoto, at (971) 349-8977.

Sincerely,

Peter Donahower

Peter Donahower, Manager
DEQ NWR Petroleum Cleanup

Enclosures



State of Oregon
Department of
Environmental
Quality

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY LEAKING UNDERGROUND STORAGE TANK PROGRAM

LUST Cost Recovery Agreement

This document serves as an agreement between the undersigned (hereinafter "you") and the Department of Environmental Quality (DEQ) regarding DEQ review and oversight of the investigation and/or cleanup of petroleum (hazardous substances) at the property located at:

Facility Name: _____

Address: _____

DEQ File No.: _____

DEQ agrees to review environmental documents submitted by you or on your behalf regarding the investigation and/or cleanup of the above-referenced site. Additional details regarding DEQ oversight will be established upon review of the initial site data.

DEQ requires that persons requesting DEQ review and oversight of investigation and cleanup activities agree to the terms of this cost recovery agreement and pay project oversight costs.

DEQ project oversight costs will include direct costs and indirect costs. Direct costs include site-specific expenses and legal costs. Indirect costs are those general management and support costs of the DEQ, including the Land Quality Division (LQ), allocable to DEQ oversight of this agreement and not charged as direct, site-specific costs. Indirect charges are based on a percentage of direct personal services costs. Review and oversight costs shall not include any unreasonable costs or costs not otherwise recoverable by DEQ under ORS 465.255.

DEQ costs are due within thirty (30) days of issuance of the monthly statement, by a check made payable to the "Department of Environmental Quality". Nine percent interest shall be charged on past due accounts.

Electing not to enter into this agreement does not release you from any responsibility that you might have for any reporting requirements, investigation and/or cleanup of petroleum (hazardous substances) at the above – referenced facility. This does not preclude the DEQ from conducting audits or inspections of all or portions of the investigation and cleanup activities associated with this facility. Enforcement action may be initiated if any violation of Oregon Administrative Rules (OAR) or Oregon Revised Statutes (ORS) is found.

DEQ File No: _____

Either DEQ or you may terminate this agreement by giving 15 days advance written notice to the other. Only those costs incurred or obligated by DEQ prior to the effective date of any termination of the agreement shall be recoverable under this agreement. Termination of this agreement will not affect any other right DEQ may have for recovery of costs under any applicable law.

You will hold DEQ harmless for any claims (including but not limited to claims of property damage or personal injury) arising from DEQ review and/or oversight activities under this agreement.

This agreement is not and shall not be construed to be an admission by you of any liability under ORS 465.255 or any other law or as a waiver by you of any defense to such liability. This agreement is not and shall not be construed to be a waiver, release, or settlement of claims that DEQ may have against you or any other responsible person nor is this agreement a waiver of any enforcement authority that DEQ may have.

The DEQ Tanks Program will be responsible for the review and oversight of the investigation and cleanup activities associated with the property. Please refer all site-specific inquiries to the DEQ Regional Offices in Northwest Region – Portland, Western Region – Salem or Eastern Region – Bend. For locations and phone numbers of the regional offices, please see the DEQ Regional Office list at <http://www.deq.state.or.us/about/locations.htm>

All inquiries regarding cost recovery and/or invoices should be directed to Dawn Ismerio at 503-229-5812.

If the terms of this agreement are acceptable, please have it executed by an authorized officer in the space provided below. In order to more effectively schedule your project, please return this agreement within 30 days of receipt to the regional office responsible for your site.

Accepted and agreed to this _____ day of _____, 20_____

By: _____

Title: _____

Please provide the following information as to where the invoices should be sent.

Individual Name: _____

Title: _____

Company Name: _____

Mail Address: _____

City, State, Zip: _____

Phone Number: _____

E-mail Address: _____



State of Oregon
Department of
Environmental
Quality

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

Initial (Twenty Day) Report Form for UST Cleanup Projects

This report is due twenty (20) days from the date of the release.

DEQ USTC File No. _____

DEQ Facility ID No. _____

Site Name: _____

Site Address: _____

INITIAL CLEANUP INFORMATION

(1) Type of contamination (check \checkmark all that apply):

- Gasoline Diesel Waste Oil Heating Oil
- Other (specify) _____

(2) Estimate quantity of release (based on information known to date – • select only one):

- <100 gal. 100-499 gal. 500-999 gal. 1,000-5,000 gal. >5,000 gal.

SITE INFORMATION (check \checkmark yes or \checkmark no)

(3) Y N Did any water enter the excavation? If yes, please describe and identify the depth to groundwater in feet below ground surface: _____

(4) Y N Was a sheen or odor observed on any water in the excavation?

Note: If groundwater is encountered, soil samples from the soil/water interface must be collected and analyzed for BTEX and by the appropriate TPH method.

At sites where diesel or other non-gasoline products have been released, the water may also have to be screened or tested for polynuclear aromatic hydrocarbons (PAHs). *Please refer to OAR 340-122-0218.*

(5) Y N Was water pumped from the excavation?

Y N If yes, did groundwater recharge within 24 hours after pumping?

Please describe the pumping procedure and disposal option selected for the purged excavation water:

(6) Y N Were any water samples collected from the excavation? If yes, please describe: _____

(7) Y N Have any soil and/or water sample results been received at this time?
If so, please attach any lab reports.

IF GROUNDWATER HAS BEEN ENCOUNTERED, PLEASE ANSWER QUESTIONS #8-13, BELOW.
IF NO WATER HAS BEEN ENCOUNTERED, PLEASE SKIP TO QUESTION #14

(8) What are the known uses of groundwater within a 500-foot radius of the release site (check \checkmark all that apply)?
 non-use industrial agricultural drinking supply

(9) If groundwater in this area is being used as a drinking water supply, please check \checkmark the type and size of population served by the supply:

Community (community well used for drinking water year round – • select only one)
size: <1,000 people 1,000 - 5,000 people >5,000 people

Intermittent use (public water used for drinking water only on a part-time basis – • select only one)
size: <50 people 50 - 300 people > 300 people

Private wells (individual private well or wells used for drinking water – • select only one)
size: <10 people 10 - 25 people >25 people

(10) Y N Is there any evidence this water supply has been or is likely to be impacted from the petroleum product release? If yes, estimate how difficult it would be to replace the existing supply:

- bottled water is the only alternative
- on-site water treatment; bulk water delivery; new wells are available
- able to connect to existing water supply
- do not know what alternatives would be available

(11) Y N Are/were vapors present in on-site or nearby buildings? If yes:

A. Are you monitoring and/or mitigating any potential fire and safety hazards posed by vapors and free product? Explain:

B. Estimate the number of people potentially affected by vapors – • select only one:
 1-2 people 3-10 people >10 people

(12) Y N Are vapors or is petroleum contamination present in the utility corridors?
If yes, please explain:

(13) Y N Are natural areas located within 1/4 mile of the site? If so, please describe types (parks, rivers, wetlands, sensitive habitats, etc.) and proximity: _____

(14) Y N If groundwater was not encountered in the excavation, do you believe that this cleanup project can be conducted under the requirements for an UST Cleanup Matrix site? If yes, then refer to OAR 340-122-0305 through 0360.

AREA/SITE CONDITIONS:

- (15) Mean annual rainfall: <20 inches 20-45 inches >45 inches
- (16) Soil type(s) of the naturally occurring soils, not the backfill around the tank – • select only one:
- clays, compact tills, shales, and unfractured metamorphic and igneous rocks
 - sandy loams, loamy sands, silty clays, clay loams, moderately permeable limestone, dolomite, sandstones, moderately fractured igneous and metamorphic rock
 - fine and silty sands, sands and gravels, highly fractured igneous and metamorphic rock, permeable basalts and lavas, karst limestones and dolomites

SOIL MANAGEMENT

- (17) If soil sample results have been received:
 Y N Will the level of contamination detected require removal of contaminated soil for treatment or disposal?
- (18) All contaminated soil temporarily stockpiled on-site prior to treatment or disposal must be contained within a bermed area, kept covered, and the entire area secured to prevent unauthorized access by the public. If you haven't done this, please explain why:

Note: It is a violation to stockpile petroleum contaminated soil (PCS) on-site for greater than 30 days without a DEQ Solid Waste Letter Authorization (SWLA) Permit.

- (19) If contaminated soil is currently stockpiled on-site, please indicate when disposal will occur or when treatment will begin: _____
- (20) Estimated volume of contaminated soil (specify tons or cubic yards): _____
- (21) Intended disposition of soils (please • select only one):
- On-site/off-site treatment, Solid Waste Letter Authorization Permit Application attached.
 - Thermal treatment off-site at an authorized facility.
 - Facility name: _____
 - Landfill disposal.
 - Name of Landfill: _____

Note: Please attach additional information as necessary to explain any unusual circumstances associated with this project.

This initial report is intended to provide the Department with the basic initial information about activities associated with the release. Future reports should provide a more detailed and complete picture of the cleanup project.

Please be aware that a DEQ permit/authorization is required for the following activities:

- 1) Soil aeration, bioremediation (on-site or off-site), or on-site thermal treatment.
- 2) Water discharges to a stream/storm drain from the excavation or treatment tank.

If these activities will be included in your cleanup project, contact the regional DEQ office for the appropriate application forms, information on permit fees and guidance documents.

THIS REPORT WAS PREPARED BY:

Individual: _____ Date: _____
Company: _____ Phone: _____
Address: _____
City: _____ State _____ Zip _____

1. Please return this form to the regional office in which the site is located.
If you have questions, call the contact person in your regional office.
2. For all tanks, except heating oil tanks, you must submit an *UST Decommissioning Checklist and Site Assessment Report* to the appropriate regional office within 30 days of the UST decommissioning.
Failure to do so can result in delays to your project and may result in continued billing for the annual tank permit fees.
3. Addresses and phone numbers for the regional offices can be found in the *UST Cleanup Manual* or viewed and downloaded from this DEQ Webpage:
<http://www.deq.state.or.us/about/locations.htm>
4. Copies of the *UST Cleanup Manual* and other UST program forms and checklists can be viewed and downloaded from DEQ's Website:
<http://www.deq.state.or.us/lq/tanks/ust/index.htm>
or in the Portland area by calling Steve Paiko at 503-229-6652
or outside the Portland area leaving a message on the UST Help Line (toll-free in Oregon) at 1-800-742-7878

KEEP A COPY OF THIS REPORT FOR YOUR FACILITY RECORDS

Leaking Underground Storage Tank Invoicing for Cleanup Program Costs

Who pays and why?

Owners and operators of facilities or property contaminated by hazardous substances are responsible under Oregon law for cleaning up the site. The Oregon Department of Environmental Quality ensures that the cleanup is done in a way that protects human health and the environment. Oregon law requires that those responsible for the contamination reimburse DEQ's costs of carrying out this responsibility.

What DEQ costs are charged to responsible parties?

Cleanup and hazardous waste laws authorize DEQ to charge all reasonable costs attributable to or associated with cleanup or hazardous waste activities at a particular site. DEQ accounts for these costs as direct and indirect costs.

Direct costs are expenditures made specifically for the site, such as cost to travel to the site, and DEQ staff time directly associated with the site including time spent to:

- Consult with the owner and/or environmental consultants;
- Review data and reports describing the type and extent of contamination;
- Review proposed cleanup actions;
- Provide information about the site and opportunities for the public to comment on the cleanup; and
- Provide comments and/or direction on the preferred cleanup method or remedy.

Indirect costs are those that support the operation of the program in general, but not directly related to specific projects. Examples of indirect costs are:

- Office space, equipment and supplies;
- Non-site-specific activities of project staff, such as training and program administrative activities;
- Clerical, computer network, time accounting, invoicing and grants management;
- Management and supervision;
- Development of technical guidance and policies; and
- A share of DEQ centralized services, such as accounting, budgeting, human resources, and information systems.

DEQ charges for two years of indirect charges. One is based on the cost of the DEQ staff and the other is based on the cost of DEQ's indirect charges. Both the landowner and DEQ staff indirect charges are charged a charge rate equal to share of all indirect costs.

How are indirect rates established?

DEQ establishes the Land Quality rate by calculating the total of program costs and dividing by the wages and benefits charges of the cleanup work. This produces a factor that will be applied to the salary and benefits charges for each project invoiced.

The DEQ agency indirect rate is negotiated annually with the Federal Environmental Protection Agency, so that indirect costs can be charged against federal grants and cooperative agreements. EPA requires that the indirect rate be charged on all DEQ activities regardless of funding source.

Rates as of Oct. 1, 2018 are:

- Land Quality indirect rate: 10%
- DEQ agency indirect rate: 11%

As of October 1, 2018, the estimated average hourly rate for employees that including indirect costs is \$20.00.

How are individual site costs calculated?

DEQ's accounting system records the total cost of employee work on a project. Staff time is charged to the project using the hourly rate of the wages and benefits. For each employee, the total cost of the project is the hourly rate multiplied by the number of hours worked. This cost is then multiplied by the indirect rate to determine the total project cost. The total project cost is then divided by the number of hours worked to determine the project cost per hour.

Oversight cost estimates

DEQ's estimate of oversight costs is prepared with DEQ's estimate of oversight costs and some type of agreement with DEQ. The agreement varies depending on the nature of the cleanup or the statutory authority under which the cleanup is carried out. The agreement specifies the type of oversight or technical assistance to be provided by DEQ and the terms of payment for that oversight.

A written estimate of oversight costs is available for a specific site or phase of a project or responsible parties at the beginning of cleanup work.



DEQ
Department of Environmental Quality
500 NE Oregon Street
Portland, Oregon 97232
503-325-4000
www.deq.or.gov

Response and Hazardous Waste programs. DEQ will also provide, on request, a written explanation when actual costs exceed projected costs by more than 20 percent.

What do invoices look like?

Employee wages, benefits and indirect charges are combined on one line called "personal services." Direct charges for costs such as supplies and travel are listed separately. Current and past due amounts are detailed.

A report that shows the number of direct hours charged by each employee and the nature of the work performed is available from DEQ on request. The back of the invoice contains a general description of costs and a name and number to call if there are any questions.

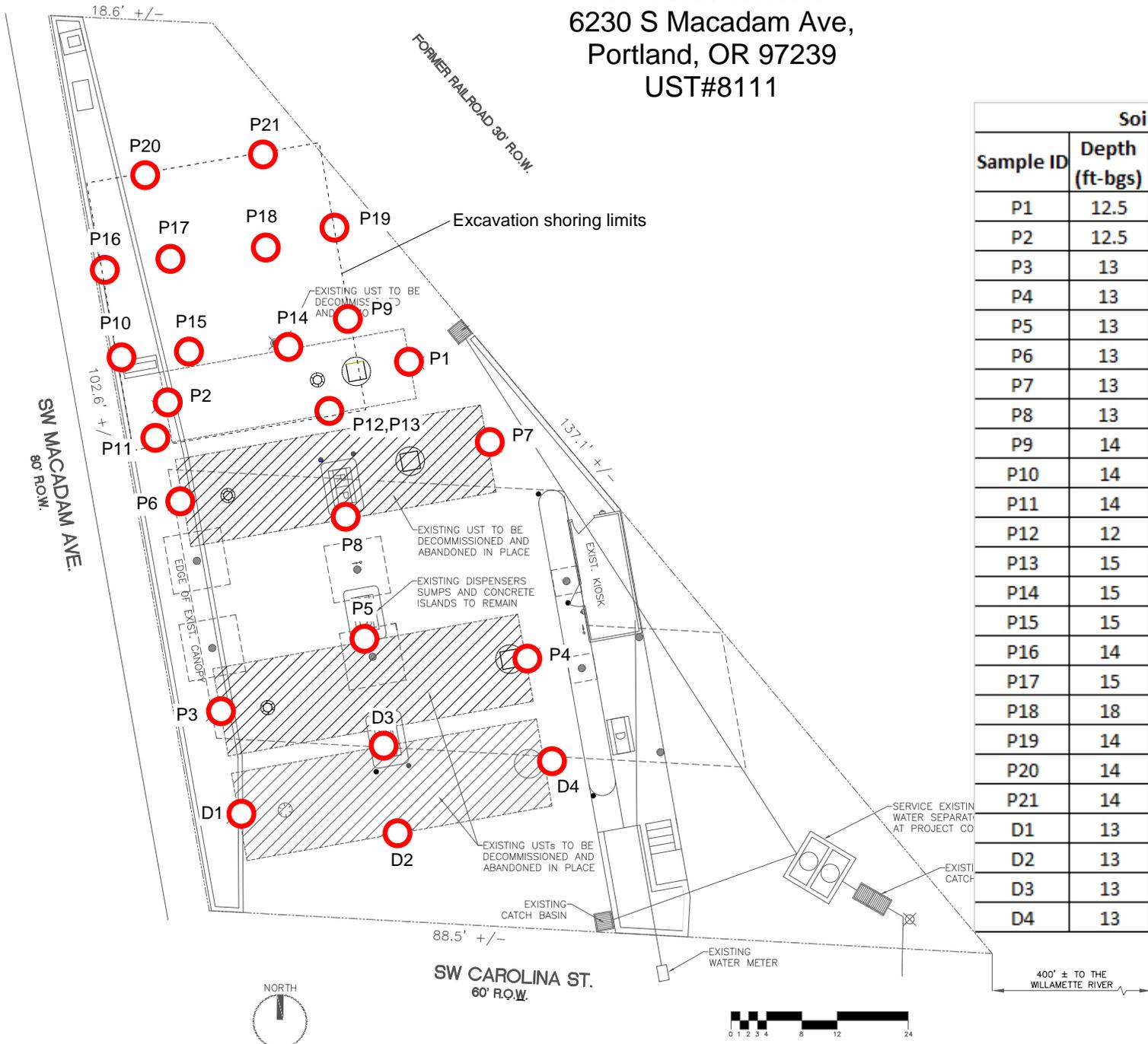
When are payments due?

Payments are due 30 calendar days from the date of the invoice. Interest will be charged on past due amounts. DEQ is required by law to pursue collection of unpaid balances by assignment of the debt to the Oregon Department of Revenue or an independent collection agency or directly by recording liens on property owned by the responsible party.

Alternative formats

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call DEQ in Portland at 503-229-5696, or toll-free in Oregon at 1-800-452-4011, ext. 5696; or email deqinfo@deq.state.or.us.

Macadam Chevron
 6230 S Macadam Ave,
 Portland, OR 97239
 UST#8111



Soil Analysis			
Sample ID	Depth (ft-bgs)	NWTPH-Dx (mg/kg)	NWTPH-Gx (mg/kg)
P1	12.5	ND	13.8
P2	12.5	223	80.2
P3	13	ND	ND
P4	13	ND	ND
P5	13	ND	ND
P6	13	ND	ND
P7	13	ND	ND
P8	13	ND	ND
P9	14	ND	ND
P10	14	ND	ND
P11	14	ND	ND
P12	12	550	122
P13	15	42.7	24.1
P14	15	40.8	92.4
P15	15	ND	ND
P16	14	ND	ND
P17	15	ND	ND
P18	18	ND	ND
P19	14	ND	ND
P20	14	ND	ND
P21	14	ND	ND
D1	13	2100	179
D2	13	3590	685
D3	13	6430	1810
D4	13	20	ND

UST Decommission Soil Samples



ANALYTICAL REPORT

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, July 26, 2023
Casey Michaels
4C's Environmental Inc.
1590 SE Uglow Ave
Dallas, OR 97338

RE: A3G1268 - Macadam Chevron 1836

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3G1268, which was received by the laboratory on 7/20/2023 at 5:28:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 2.0 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project/#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
---	---	--

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P1	A3G1268-01	Soil	07/20/23 13:15	07/20/23 17:28

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
---	--	---

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P1 (A3G1268-01)				Matrix: Soil		Batch: 23G0588		
Diesel	ND	---	22.7	mg/kg dry	1	07/20/23 23:26	NWTPH-Dx	
Oil	ND	---	45.5	mg/kg dry	1	07/20/23 23:26	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 70 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/20/23 23:26</i>	<i>NWTPH-Dx</i>

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---	---	---

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P1 (A3G1268-01)				Matrix: Soil			Batch: 23G0628	V-15
Gasoline Range Organics	13.8	---	6.70	mg/kg dry	50	07/21/23 13:00	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 94 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/21/23 13:00</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>94 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/21/23 13:00</i>	<i>NWTPH-Gx (MS)</i>	

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---	---	--

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P1 (A3G1268-01)				Matrix: Soil		Batch: 23G0628		V-15
Benzene	0.279	---	0.0134	mg/kg dry	50	07/21/23 13:00	5035A/8260D	
Toluene	ND	---	0.0670	mg/kg dry	50	07/21/23 13:00	5035A/8260D	
Ethylbenzene	0.0978	---	0.0335	mg/kg dry	50	07/21/23 13:00	5035A/8260D	
Xylenes, total	2.13	---	0.101	mg/kg dry	50	07/21/23 13:00	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/21/23 13:00</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>	<i>1</i>	<i>07/21/23 13:00</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/21/23 13:00</i>	<i>5035A/8260D</i>	

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project/#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
---	---	--

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P1 (A3G1268-01)				Matrix: Soil		Batch: 23G0567		
Acenaphthene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Anthracene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Benz(a)anthracene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Chrysene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Fluoranthene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Fluorene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Naphthalene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Phenanthrene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
Pyrene	ND	---	0.0111	mg/kg dry	1	07/21/23 02:18	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 82 %</i>	<i>Limits: 44-120 %</i>	<i>1</i>	<i>07/21/23 02:18</i>	<i>EPA 8270E SIM</i>	
<i>p-Terphenyl-d14 (Surr)</i>			<i>80 %</i>	<i>54-127 %</i>	<i>1</i>	<i>07/21/23 02:18</i>	<i>EPA 8270E SIM</i>	

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project/#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P1 (A3G1268-01)				Matrix: Soil		Batch: 23G0577		
% Solids	85.1	---	1.00	%	1	07/21/23 06:17	EPA 8000D	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0588 - EPA 3546 (Fuels)						Soil						
Blank (23G0588-BLK1)		Prepared: 07/20/23 12:33 Analyzed: 07/20/23 21:52										
<u>NWTPH-Dx</u>												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 83 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (23G0588-BS1)						Prepared: 07/20/23 12:33 Analyzed: 07/20/23 22:15						
<u>NWTPH-Dx</u>												
Diesel	111	---	20.0	mg/kg wet	1	125	---	89	38 - 132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 82 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0628 - EPA 5035A						Soil						
Blank (23G0628-BLK1)		Prepared: 07/21/23 10:52 Analyzed: 07/21/23 12:35										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 89 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>94 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23G0628-BS2)		Prepared: 07/21/23 10:52 Analyzed: 07/21/23 12:03										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	20.3	---	5.00	mg/kg wet	50	25.0	---	81	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 91 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>94 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23G0628-DUP1)		Prepared: 07/20/23 18:20 Analyzed: 07/21/23 13:26										
<u>QC Source Sample: P1 (A3G1268-01)</u>												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	13.6	---	6.70	mg/kg dry	50	---	13.8	---	---	2	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>94 %</i>		<i>50-150 %</i>		<i>"</i>						

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0628 - EPA 5035A						Soil						
Blank (23G0628-BLK1)			Prepared: 07/21/23 10:52 Analyzed: 07/21/23 12:35									
<u>5035A/8260D</u>												
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0750	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23G0628-BS1)			Prepared: 07/21/23 10:52 Analyzed: 07/21/23 11:38									
<u>5035A/8260D</u>												
Benzene	1.12	---	0.0100	mg/kg wet	50	1.00	---	112	80 - 120%	---	---	
Toluene	0.975	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Ethylbenzene	0.955	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
Xylenes, total	2.84	---	0.0750	mg/kg wet	50	3.00	---	95	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						
Duplicate (23G0628-DUP1)			Prepared: 07/20/23 18:20 Analyzed: 07/21/23 13:26									
<u>QC Source Sample: P1 (A3G1268-01)</u>												
<u>5035A/8260D</u>												
Benzene	0.259	---	0.0134	mg/kg dry	50	---	0.279	---	---	7	30%	
Toluene	ND	---	0.0670	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	0.102	---	0.0335	mg/kg dry	50	---	0.0978	---	---	4	30%	
Xylenes, total	2.13	---	0.101	mg/kg dry	50	---	2.13	---	---	0.4	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc.	Project#: Macadam Chevron 1836	Report ID:
1590 SE Uglow Ave		A3G1268 - 07 26 23 1156
Dallas, OR 97338	Project Manager: Casey Michaels	

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0567 - EPA 3546												
Soil												
Blank (23G0567-BLK2)												
Prepared: 07/20/23 07:31 Analyzed: 07/20/23 15:20												
EPA 8270E SIM												
Acenaphthene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Chrysene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Fluoranthene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Fluorene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Naphthalene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Phenanthrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
Pyrene	ND	---	0.00267	mg/kg wet	1	---	---	---	---	---	---	---
<i>Surr: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 94 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>					
<i>p-Terphenyl-d14 (Surr)</i>			<i>100 %</i>		<i>54-127 %</i>		<i>"</i>					

LCS (23G0567-BS2)												
Prepared: 07/20/23 07:31 Analyzed: 07/20/23 15:45												
EPA 8270E SIM												
Acenaphthene	0.526	---	0.00267	mg/kg wet	1	0.533	---	99	40 - 123%	---	---	---
Acenaphthylene	0.508	---	0.00267	mg/kg wet	1	0.533	---	95	32 - 132%	---	---	---
Anthracene	0.519	---	0.00267	mg/kg wet	1	0.533	---	97	47 - 123%	---	---	---
Benz(a)anthracene	0.500	---	0.00267	mg/kg wet	1	0.533	---	94	49 - 126%	---	---	---
Benzo(a)pyrene	0.525	---	0.00267	mg/kg wet	1	0.533	---	98	45 - 129%	---	---	---
Benzo(b)fluoranthene	0.523	---	0.00267	mg/kg wet	1	0.533	---	98	45 - 132%	---	---	---
Benzo(k)fluoranthene	0.542	---	0.00267	mg/kg wet	1	0.533	---	102	47 - 132%	---	---	---
Benzo(g,h,i)perylene	0.458	---	0.00267	mg/kg wet	1	0.533	---	86	43 - 134%	---	---	---
Chrysene	0.519	---	0.00267	mg/kg wet	1	0.533	---	97	50 - 124%	---	---	---
Dibenz(a,h)anthracene	0.541	---	0.00267	mg/kg wet	1	0.533	---	101	45 - 134%	---	---	---
Fluoranthene	0.522	---	0.00267	mg/kg wet	1	0.533	---	98	50 - 127%	---	---	---
Fluorene	0.501	---	0.00267	mg/kg wet	1	0.533	---	94	43 - 125%	---	---	---

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ANALYTICAL REPORT

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0567 - EPA 3546						Soil						
LCS (23G0567-BS2)		Prepared: 07/20/23 07:31 Analyzed: 07/20/23 15:45										
Indeno(1,2,3-cd)pyrene	0.504	---	0.00267	mg/kg wet	1	0.533	---	95	45 - 133%	---	---	
Naphthalene	0.493	---	0.00267	mg/kg wet	1	0.533	---	92	35 - 123%	---	---	
Phenanthrene	0.514	---	0.00267	mg/kg wet	1	0.533	---	96	50 - 121%	---	---	
Pyrene	0.518	---	0.00267	mg/kg wet	1	0.533	---	97	47 - 127%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 97%</i>		<i>Limits: 44-120%</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>99%</i>		<i>54-127%</i>		<i>"</i>						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0577 - Total Solids (Dry Weight) - 2022												
Soil												

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0588</u>							
A3G1268-01	Soil	NWTPH-Dx	07/20/23 13:15	07/20/23 18:57	10.33g/5mL	10g/5mL	0.97

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0628</u>							
A3G1268-01	Soil	NWTPH-Gx (MS)	07/20/23 13:15	07/20/23 18:20	5.04g/5mL	5g/5mL	0.99

BTEX Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0628</u>							
A3G1268-01	Soil	5035A/8260D	07/20/23 13:15	07/20/23 18:20	5.04g/5mL	5g/5mL	0.99

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0567</u>							
A3G1268-01	Soil	EPA 8270E SIM	07/20/23 13:15	07/20/23 18:55	10.56g/5mL	10g/5mL	0.95

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0577</u>							
A3G1268-01	Soil	EPA 8000D	07/20/23 13:15	07/20/23 19:45			NA

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported.
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
- "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron 1836 Project Manager: Casey Michaels	Report ID: A3G1268 - 07 26 23 1156
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APEX LABS COOLER RECEIPT FORM

Client: 4C's Environmental Inc. Element WO#: A3 G1268

Project/Project #: Macadam Chevron 1836

Delivery Info:
Date/time received: 7/20/23 @ 1728 By: EST

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 7/20/23 @ 1728 By: EST

Chain of Custody included? Yes No

Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.0</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) (N) Possible reason why: _____

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 7-20-23 @ 1802 By: DJS

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information: _____

Labeled by: DJS Witness: [Signature] Cooler Inspected by: EST

Form Y-003 R-00



ANALYTICAL REPORT

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, August 16, 2023

Casey Michaels
4C's Environmental Inc.
1590 SE Uglow Ave
Dallas, OR 97338

RE: A3G1485 - Macadam Chevron/1836

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3G1485, which was received by the laboratory on 7/27/2023 at 3:04:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 3.2 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P2	A3G1485-01	Soil	07/26/23 11:24	07/27/23 15:04
P3	A3G1485-02	Soil	07/26/23 11:29	07/27/23 15:04
P4	A3G1485-03	Soil	07/26/23 11:33	07/27/23 15:04
P5	A3G1485-04	Soil	07/26/23 11:45	07/27/23 15:04
P6	A3G1485-05	Soil	07/26/23 11:55	07/27/23 15:04
P7	A3G1485-06	Soil	07/26/23 11:42	07/27/23 15:04
P8	A3G1485-07	Soil	07/26/23 11:35	07/27/23 15:04
P9	A3G1485-08	Soil	07/26/23 11:48	07/27/23 15:04
P10	A3G1485-09	Soil	07/26/23 11:59	07/27/23 15:04
D1	A3G1485-10	Soil	07/26/23 10:10	07/27/23 15:04
D2	A3G1485-11	Soil	07/26/23 10:25	07/27/23 15:04
D3	A3G1485-12	Soil	07/26/23 10:42	07/27/23 15:04
D4	A3G1485-13	Soil	07/26/23 10:58	07/27/23 15:04

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P2 (A3G1485-01)				Matrix: Soil		Batch: 23H0083		
Diesel	223	---	26.3	mg/kg dry	1	08/02/23 23:51	NWTPH-Dx	
Oil	ND	---	52.5	mg/kg dry	1	08/02/23 23:51	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/02/23 23:51</i>	<i>NWTPH-Dx</i>
P3 (A3G1485-02)				Matrix: Soil		Batch: 23H0083		
Diesel	ND	---	26.1	mg/kg dry	1	08/03/23 00:12	NWTPH-Dx	
Oil	ND	---	52.2	mg/kg dry	1	08/03/23 00:12	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 00:12</i>	<i>NWTPH-Dx</i>
P4 (A3G1485-03)				Matrix: Soil		Batch: 23H0083		
Diesel	ND	---	25.2	mg/kg dry	1	08/03/23 00:32	NWTPH-Dx	
Oil	ND	---	50.4	mg/kg dry	1	08/03/23 00:32	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 00:32</i>	<i>NWTPH-Dx</i>
P5 (A3G1485-04)				Matrix: Soil		Batch: 23H0083		
Diesel	ND	---	25.8	mg/kg dry	1	08/03/23 00:53	NWTPH-Dx	
Oil	ND	---	51.6	mg/kg dry	1	08/03/23 00:53	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 65 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 00:53</i>	<i>NWTPH-Dx</i>
P6 (A3G1485-05)				Matrix: Soil		Batch: 23H0083		
Diesel	ND	---	25.7	mg/kg dry	1	08/03/23 01:14	NWTPH-Dx	
Oil	ND	---	51.5	mg/kg dry	1	08/03/23 01:14	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 01:14</i>	<i>NWTPH-Dx</i>
P7 (A3G1485-06)				Matrix: Soil		Batch: 23H0083		
Diesel	ND	---	26.2	mg/kg dry	1	08/03/23 01:34	NWTPH-Dx	
Oil	ND	---	52.3	mg/kg dry	1	08/03/23 01:34	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 65 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 01:34</i>	<i>NWTPH-Dx</i>
P8 (A3G1485-07)				Matrix: Soil		Batch: 23H0083		
Diesel	ND	---	27.1	mg/kg dry	1	08/03/23 01:55	NWTPH-Dx	
Oil	ND	---	54.2	mg/kg dry	1	08/03/23 01:55	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 01:55</i>	<i>NWTPH-Dx</i>
P9 (A3G1485-08)				Matrix: Soil		Batch: 23H0083		

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P9 (A3G1485-08)				Matrix: Soil		Batch: 23H0083		
Diesel	ND	---	27.4	mg/kg dry	1	08/03/23 02:16	NWTPH-Dx	
Oil	ND	---	54.8	mg/kg dry	1	08/03/23 02:16	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 70 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 02:16</i>	<i>NWTPH-Dx</i>
P10 (A3G1485-09)				Matrix: Soil		Batch: 23H0083		
Diesel	ND	---	27.5	mg/kg dry	1	08/03/23 03:59	NWTPH-Dx	
Oil	ND	---	55.1	mg/kg dry	1	08/03/23 03:59	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 03:59</i>	<i>NWTPH-Dx</i>
D1 (A3G1485-10)				Matrix: Soil		Batch: 23H0083		
Diesel	2100	---	26.2	mg/kg dry	1	08/03/23 04:20	NWTPH-Dx	
Oil	ND	---	52.4	mg/kg dry	1	08/03/23 04:20	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 04:20</i>	<i>NWTPH-Dx</i>
D2 (A3G1485-11RE1)				Matrix: Soil		Batch: 23H0083		
Diesel	3590	---	135	mg/kg dry	5	08/03/23 14:48	NWTPH-Dx	
Oil	ND	---	271	mg/kg dry	5	08/03/23 14:48	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>5</i>	<i>08/03/23 14:48</i>	<i>NWTPH-Dx S-05</i>
D3 (A3G1485-12RE1)				Matrix: Soil		Batch: 23H0083		
Diesel	6430	---	259	mg/kg dry	10	08/03/23 15:08	NWTPH-Dx	
Oil	ND	---	517	mg/kg dry	10	08/03/23 15:08	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 50-150 %</i>		<i>10</i>	<i>08/03/23 15:08</i>	<i>NWTPH-Dx S-05</i>
D4 (A3G1485-13)				Matrix: Soil		Batch: 23H0083		
Diesel	200	---	25.7	mg/kg dry	1	08/03/23 05:22	NWTPH-Dx	Q-42
Oil	ND	---	51.4	mg/kg dry	1	08/03/23 05:22	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 05:22</i>	<i>NWTPH-Dx</i>

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P2 (A3G1485-01)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	80.2	---	7.54	mg/kg dry	50	07/28/23 11:58	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 11:58</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 11:58</i>	<i>NWTPH-Gx (MS)</i>	
P3 (A3G1485-02)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	ND	---	8.24	mg/kg dry	50	07/28/23 12:24	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 98 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 12:24</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 12:24</i>	<i>NWTPH-Gx (MS)</i>	
P4 (A3G1485-03)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	ND	---	7.78	mg/kg dry	50	07/28/23 12:49	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 12:49</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 12:49</i>	<i>NWTPH-Gx (MS)</i>	
P5 (A3G1485-04)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	ND	---	7.88	mg/kg dry	50	07/28/23 13:15	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 96 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 13:15</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>99 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 13:15</i>	<i>NWTPH-Gx (MS)</i>	
P6 (A3G1485-05)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	ND	---	7.82	mg/kg dry	50	07/28/23 13:40	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 100 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 13:40</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 13:40</i>	<i>NWTPH-Gx (MS)</i>	
P7 (A3G1485-06)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	ND	---	8.01	mg/kg dry	50	07/28/23 14:06	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 98 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 14:06</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 14:06</i>	<i>NWTPH-Gx (MS)</i>	
P8 (A3G1485-07)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	ND	---	8.22	mg/kg dry	50	07/28/23 14:31	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 100 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 14:31</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 14:31</i>	<i>NWTPH-Gx (MS)</i>	
P9 (A3G1485-08)				Matrix: Soil		Batch: 23G0928		V-15

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P9 (A3G1485-08)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	ND	---	8.43	mg/kg dry	50	07/28/23 14:57	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 14:57</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 14:57</i>	<i>NWTPH-Gx (MS)</i>	
P10 (A3G1485-09)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	ND	---	8.90	mg/kg dry	50	07/28/23 15:22	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 100 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 15:22</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 15:22</i>	<i>NWTPH-Gx (MS)</i>	
D1 (A3G1485-10)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	179	---	7.88	mg/kg dry	50	07/28/23 15:48	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 102 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 15:48</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 15:48</i>	<i>NWTPH-Gx (MS)</i>	
D2 (A3G1485-11)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	685	---	8.60	mg/kg dry	50	07/28/23 16:39	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 102 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 16:39</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 16:39</i>	<i>NWTPH-Gx (MS)</i>	
D3 (A3G1485-12)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	1810	---	30.4	mg/kg dry	200	07/28/23 17:04	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 17:04</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 17:04</i>	<i>NWTPH-Gx (MS)</i>	
D4 (A3G1485-13)				Matrix: Soil		Batch: 23G0928		V-15
Gasoline Range Organics	11.6	---	7.43	mg/kg dry	50	07/28/23 16:13	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/28/23 16:13</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/28/23 16:13</i>	<i>NWTPH-Gx (MS)</i>	

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ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P2 (A3G1485-01)				Matrix: Soil		Batch: 23G0928		V-15
Benzene	0.202	---	0.0151	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
Toluene	ND	---	0.0754	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
Ethylbenzene	ND	---	0.0377	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
Xylenes, total	3.32	---	0.113	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0754	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
Naphthalene	ND	---	0.151	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0754	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0377	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
Isopropylbenzene	ND	---	0.0754	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0754	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
1,3,5-Trimethylbenzene	0.140	---	0.0754	mg/kg dry	50	07/28/23 11:58	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 99 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/28/23 11:58</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>	<i>1</i>	<i>07/28/23 11:58</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/28/23 11:58</i>	<i>5035A/8260D</i>	
D2 (A3G1485-11)				Matrix: Soil		Batch: 23G0928		V-15
Benzene	ND	---	0.0172	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
Toluene	ND	---	0.0860	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
Ethylbenzene	ND	---	0.0430	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
Xylenes, total	0.198	---	0.129	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0860	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
Naphthalene	ND	---	0.258	mg/kg dry	50	07/28/23 16:39	5035A/8260D	R-02
1,2-Dibromoethane (EDB)	ND	---	0.0860	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0430	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
Isopropylbenzene	3.12	---	0.0860	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0860	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
1,3,5-Trimethylbenzene	0.120	---	0.0860	mg/kg dry	50	07/28/23 16:39	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/28/23 16:39</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>	<i>1</i>	<i>07/28/23 16:39</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/28/23 16:39</i>	<i>5035A/8260D</i>	
D3 (A3G1485-12)				Matrix: Soil		Batch: 23G0928		V-15
Benzene	0.134	---	0.0608	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
Toluene	ND	---	0.304	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
Ethylbenzene	0.900	---	0.152	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
Xylenes, total	ND	---	0.456	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.304	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
Naphthalene	ND	---	0.608	mg/kg dry	200	07/28/23 17:04	5035A/8260D	

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ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
D3 (A3G1485-12)				Matrix: Soil		Batch: 23G0928		V-15
1,2-Dibromoethane (EDB)	ND	---	0.304	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.152	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
Isopropylbenzene	11.5	---	0.304	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.304	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
1,3,5-Trimethylbenzene	0.544	---	0.304	mg/kg dry	200	07/28/23 17:04	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/28/23 17:04</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/28/23 17:04</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>1</i>	<i>07/28/23 17:04</i>	<i>5035A/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
D1 (A3G1485-10)				Matrix: Soil		Batch: 23H0205		
Acenaphthene	ND	---	0.351	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	R-02
Acenaphthylene	ND	---	0.155	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	R-02
Anthracene	ND	---	0.191	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	R-02
Benz(a)anthracene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Chrysene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Fluoranthene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Fluorene	0.924	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	Q-42
Indeno(1,2,3-cd)pyrene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
Naphthalene	ND	---	0.0982	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	R-02
Phenanthrene	1.64	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	Q-42
Pyrene	ND	---	0.0517	mg/kg dry	4	08/07/23 12:48	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 44-120 %</i>	4	08/07/23 12:48	EPA 8270E SIM	
<i>p-Terphenyl-d14 (Surr)</i>		<i>78 %</i>		<i>54-127 %</i>	4	08/07/23 12:48	EPA 8270E SIM	

D2 (A3G1485-11)				Matrix: Soil		Batch: 23H0083		Q-22
Acenaphthene	ND	---	0.639	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	R-02
Acenaphthylene	ND	---	0.287	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	R-02
Anthracene	ND	---	0.119	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	R-02
Benz(a)anthracene	ND	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Chrysene	ND	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Fluoranthene	0.0996	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Fluorene	1.57	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Naphthalene	ND	---	0.249	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	R-02
Phenanthrene	2.31	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	
Pyrene	0.0931	---	0.0542	mg/kg dry	4	08/09/23 22:30	EPA 8270E SIM	

D3 (A3G1485-12)				Matrix: Soil		Batch: 23H0205		
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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
---	--	--

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
				Matrix: Soil				
				Batch: 23H0205				
D3 (A3G1485-12)								
Acenaphthene	ND	---	0.679	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	R-02
Acenaphthylene	ND	---	0.326	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	R-02
Anthracene	ND	---	0.379	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	R-02
Benz(a)anthracene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Chrysene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Fluoranthene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Fluorene	1.83	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Naphthalene	ND	---	0.287	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	R-02
Phenanthrene	2.99	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
Pyrene	ND	---	0.131	mg/kg dry	10	08/07/23 14:30	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 44-120 %</i>	<i>10</i>	<i>08/07/23 14:30</i>	<i>EPA 8270E SIM</i>	
<i>p-Terphenyl-d14 (Surr)</i>			<i>99 %</i>	<i>54-127 %</i>	<i>10</i>	<i>08/07/23 14:30</i>	<i>EPA 8270E SIM</i>	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P2 (A3G1485-01)				Matrix: Soil			Batch: 23G0942	
% Solids	74.5	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
P3 (A3G1485-02)				Matrix: Soil			Batch: 23G0942	
% Solids	74.8	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
P4 (A3G1485-03)				Matrix: Soil			Batch: 23G0942	
% Solids	77.7	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
P5 (A3G1485-04)				Matrix: Soil			Batch: 23G0942	
% Solids	76.3	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
P6 (A3G1485-05)				Matrix: Soil			Batch: 23G0942	
% Solids	76.4	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
P7 (A3G1485-06)				Matrix: Soil			Batch: 23G0942	
% Solids	73.8	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
P8 (A3G1485-07)				Matrix: Soil			Batch: 23G0942	
% Solids	72.0	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
P9 (A3G1485-08)				Matrix: Soil			Batch: 23G0942	
% Solids	71.0	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
P10 (A3G1485-09)				Matrix: Soil			Batch: 23G0942	
% Solids	71.9	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
D1 (A3G1485-10)				Matrix: Soil			Batch: 23G0942	
% Solids	76.1	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
D2 (A3G1485-11)				Matrix: Soil			Batch: 23G0942	
% Solids	72.1	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
D3 (A3G1485-12)				Matrix: Soil			Batch: 23G0942	
% Solids	74.9	---	1.00	%	1	07/31/23 04:11	EPA 8000D	
D4 (A3G1485-13)				Matrix: Soil			Batch: 23G0942	
% Solids	77.7	---	1.00	%	1	07/31/23 04:11	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0083 - EPA 3546 (Fuels)						Soil						
Blank (23H0083-BLK1)		Prepared: 08/02/23 12:10 Analyzed: 08/02/23 21:05										
<u>NWTPH-Dx</u>												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23H0083-BS1)		Prepared: 08/02/23 12:10 Analyzed: 08/02/23 21:26										
<u>NWTPH-Dx</u>												
Diesel	101	---	20.0	mg/kg wet	1	125	---	81	38 - 132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23H0083-DUP2)		Prepared: 08/02/23 12:10 Analyzed: 08/03/23 05:42										
<u>QC Source Sample: D4 (A3G1485-13)</u>												
<u>NWTPH-Dx</u>												
Diesel	318	---	25.7	mg/kg dry	1	---	200	---	---	46	30%	Q-17
Oil	ND	---	51.4	mg/kg dry	1	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0928 - EPA 5035A						Soil						
Blank (23G0928-BLK1)		Prepared: 07/28/23 08:11 Analyzed: 07/28/23 10:16										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23G0928-BS2)		Prepared: 07/28/23 08:11 Analyzed: 07/28/23 09:47										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	24.6	---	5.00	mg/kg wet	50	25.0	---	98	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23G0928-DUP1)		Prepared: 07/27/23 17:50 Analyzed: 07/28/23 20:54										
<u>QC Source Sample: P2 (A3G1485-01)</u>												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	73.8	---	7.54	mg/kg dry	50	---	80.2	---	---	8	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>"</i>						

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ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0928 - EPA 5035A						Soil						
Blank (23G0928-BLK1)			Prepared: 07/28/23 08:11 Analyzed: 07/28/23 10:16									
<u>5035A/8260D</u>												
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Xylenes, total	ND	---	0.0750	mg/kg wet	50	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>	<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>79-120 %</i>	<i>"</i>							
LCS (23G0928-BS1)						Prepared: 07/28/23 08:11 Analyzed: 07/28/23 09:21						
<u>5035A/8260D</u>												
Benzene	1.04	---	0.0100	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	---
Toluene	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	---
Ethylbenzene	1.07	---	0.0250	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	---
Xylenes, total	3.17	---	0.0750	mg/kg wet	50	3.00	---	106	80 - 120%	---	---	---
Methyl tert-butyl ether (MTBE)	0.981	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	---
Naphthalene	1.03	---	0.100	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	---
1,2-Dibromoethane (EDB)	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80 - 120%	---	---	---
1,2-Dichloroethane (EDC)	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	---
Isopropylbenzene	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	---
1,2,4-Trimethylbenzene	1.14	---	0.0500	mg/kg wet	50	1.00	---	114	80 - 120%	---	---	---
1,3,5-Trimethylbenzene	1.16	---	0.0500	mg/kg wet	50	1.00	---	116	80 - 120%	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>	<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>79-120 %</i>	<i>"</i>							
Duplicate (23G0928-DUP1)						Prepared: 07/27/23 17:50 Analyzed: 07/28/23 20:54						

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503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0928 - EPA 5035A												
Soil												
Duplicate (23G0928-DUP1)												
Prepared: 07/27/23 17:50 Analyzed: 07/28/23 20:54												
QC Source Sample: P2 (A3G1485-01)												
5035A/8260D												
Benzene	0.192	---	0.0151	mg/kg dry	50	---	0.202	---	---	5	30%	
Toluene	ND	---	0.0754	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0377	mg/kg dry	50	---	ND	---	---	---	30%	
Xylenes, total	3.10	---	0.113	mg/kg dry	50	---	3.32	---	---	7	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0754	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.151	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.0754	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0377	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0754	mg/kg dry	50	---	0.0498	---	---	***	30%	
1,2,4-Trimethylbenzene	ND	---	0.0754	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	0.128	---	0.0754	mg/kg dry	50	---	0.140	---	---	9	30%	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 100 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 98 % 79-120 % "</i>												

Matrix Spike (23G0928-MS1)												
Prepared: 07/27/23 17:50 Analyzed: 07/28/23 21:46												
T-02												
QC Source Sample: D4 (A3G1485-13)												
5035A/8260D												
Benzene	1.58	---	0.0149	mg/kg dry	50	1.49	ND	107	77 - 121%	---	---	
Toluene	1.55	---	0.0743	mg/kg dry	50	1.49	ND	104	77 - 121%	---	---	
Ethylbenzene	1.62	---	0.0372	mg/kg dry	50	1.49	ND	109	76 - 122%	---	---	
Xylenes, total	4.84	---	0.111	mg/kg dry	50	4.46	ND	109	78 - 124%	---	---	
Methyl tert-butyl ether (MTBE)	1.49	---	0.0743	mg/kg dry	50	1.49	ND	100	73 - 125%	---	---	
Naphthalene	1.73	---	0.149	mg/kg dry	50	1.49	ND	116	62 - 129%	---	---	
1,2-Dibromoethane (EDB)	1.58	---	0.0743	mg/kg dry	50	1.49	ND	106	78 - 122%	---	---	
1,2-Dichloroethane (EDC)	1.58	---	0.0372	mg/kg dry	50	1.49	ND	106	73 - 128%	---	---	
Isopropylbenzene	1.67	---	0.0743	mg/kg dry	50	1.49	ND	112	68 - 134%	---	---	
1,2,4-Trimethylbenzene	1.70	---	0.0743	mg/kg dry	50	1.49	ND	115	75 - 123%	---	---	
1,3,5-Trimethylbenzene	1.75	---	0.0743	mg/kg dry	50	1.49	ND	117	73 - 124%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 99 % 80-120 % "</i>												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0928 - EPA 5035A						Soil						
Matrix Spike (23G0928-MS1)		Prepared: 07/27/23 17:50 Analyzed: 07/28/23 21:46										T-02
QC Source Sample: D4 (A3G1485-13)												
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 99 %			Limits: 79-120 %			Dilution: 1x				

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23H0083 - EPA 3546 (Fuels)						Soil							
Blank (23H0083-BLK3)		Prepared: 08/02/23 12:10 Analyzed: 08/10/23 17:21						Q-22					
EPA 8270E SIM													
Acenaphthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Acenaphthylene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Benz(a)anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	B-02	
Benzo(a)pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	B-02	
Benzo(b)fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	B-02	
Benzo(k)fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Benzo(g,h,i)perylene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	B-02	
Chrysene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	B-02	
Dibenz(a,h)anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Fluorene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Indeno(1,2,3-cd)pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	B-02	
Naphthalene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Phenanthrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
---	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0205 - EPA 3546						Soil						
Blank (23H0205-BLK1)			Prepared: 08/07/23 05:38 Analyzed: 08/07/23 11:57									
EPA 8270E SIM												
Acenaphthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Chrysene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Fluorene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Naphthalene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Phenanthrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>94 %</i>		<i>54-127 %</i>		<i>"</i>						

LCS (23H0205-BS1)			Prepared: 08/07/23 05:38 Analyzed: 08/07/23 12:23									
EPA 8270E SIM												
Acenaphthene	0.785	---	0.0100	mg/kg wet	1	0.800	---	98	40 - 123%	---	---	---
Acenaphthylene	0.773	---	0.0100	mg/kg wet	1	0.800	---	97	32 - 132%	---	---	---
Anthracene	0.742	---	0.0100	mg/kg wet	1	0.800	---	93	47 - 123%	---	---	---
Benz(a)anthracene	0.734	---	0.0100	mg/kg wet	1	0.800	---	92	49 - 126%	---	---	---
Benzo(a)pyrene	0.792	---	0.0100	mg/kg wet	1	0.800	---	99	45 - 129%	---	---	---
Benzo(b)fluoranthene	0.740	---	0.0100	mg/kg wet	1	0.800	---	92	45 - 132%	---	---	---
Benzo(k)fluoranthene	0.836	---	0.0100	mg/kg wet	1	0.800	---	105	47 - 132%	---	---	---
Benzo(g,h,i)perylene	0.600	---	0.0100	mg/kg wet	1	0.800	---	75	43 - 134%	---	---	---
Chrysene	0.791	---	0.0100	mg/kg wet	1	0.800	---	99	50 - 124%	---	---	---
Dibenz(a,h)anthracene	0.787	---	0.0100	mg/kg wet	1	0.800	---	98	45 - 134%	---	---	---
Fluoranthene	0.778	---	0.0100	mg/kg wet	1	0.800	---	97	50 - 127%	---	---	---
Fluorene	0.759	---	0.0100	mg/kg wet	1	0.800	---	95	43 - 125%	---	---	---

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Darrell Auvil, Client Services Manager



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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0205 - EPA 3546						Soil						
LCS (23H0205-BS1)			Prepared: 08/07/23 05:38 Analyzed: 08/07/23 12:23									
Indeno(1,2,3-cd)pyrene	0.733	---	0.0100	mg/kg wet	1	0.800	---	92	45 - 133%	---	---	
Naphthalene	0.713	---	0.0100	mg/kg wet	1	0.800	---	89	35 - 123%	---	---	
Phenanthrene	0.726	---	0.0100	mg/kg wet	1	0.800	---	91	50 - 121%	---	---	
Pyrene	0.784	---	0.0100	mg/kg wet	1	0.800	---	98	47 - 127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 96 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		93 %		54-127 %		"						

Duplicate (23H0205-DUP1)						Prepared: 08/07/23 05:38 Analyzed: 08/07/23 13:13						
QC Source Sample: D1 (A3G1485-10)												
EPA 8270E SIM												
Acenaphthene	ND	---	0.244	mg/kg dry	4	---	ND	---	---	---	30%	R-02
Acenaphthylene	ND	---	0.114	mg/kg dry	4	---	ND	---	---	---	30%	R-02
Anthracene	ND	---	0.140	mg/kg dry	4	---	ND	---	---	---	30%	R-02
Benz(a)anthracene	ND	---	0.0518	mg/kg dry	4	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	---	0.0518	mg/kg dry	4	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	---	0.0518	mg/kg dry	4	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	0.0518	mg/kg dry	4	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	0.0518	mg/kg dry	4	---	ND	---	---	---	30%	
Chrysene	ND	---	0.0518	mg/kg dry	4	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	0.0518	mg/kg dry	4	---	ND	---	---	---	30%	
Fluoranthene	ND	---	0.0518	mg/kg dry	4	---	0.0317	---	---	***	30%	Q-05
Fluorene	0.649	---	0.0518	mg/kg dry	4	---	0.924	---	---	35	30%	Q-17
Indeno(1,2,3-cd)pyrene	ND	---	0.0518	mg/kg dry	4	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.0726	mg/kg dry	4	---	ND	---	---	---	30%	R-02
Phenanthrene	1.11	---	0.0518	mg/kg dry	4	---	1.64	---	---	38	30%	Q-17
Pyrene	ND	---	0.0518	mg/kg dry	4	---	0.0500	---	---	***	30%	Q-05
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 75 %		Limits: 44-120 %		Dilution: 4x						
p-Terphenyl-d14 (Surr)		74 %		54-127 %		"						

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
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Batch 23G0942 - Total Solids (Dry Weight) - 2022

Soil

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Darrell Auvil, Client Services Manager



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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0083</u>							
A3G1485-01	Soil	NWTPH-Dx	07/26/23 11:24	08/02/23 12:10	10.22g/5mL	10g/5mL	0.98
A3G1485-02	Soil	NWTPH-Dx	07/26/23 11:29	08/02/23 12:10	10.25g/5mL	10g/5mL	0.98
A3G1485-03	Soil	NWTPH-Dx	07/26/23 11:33	08/02/23 12:10	10.21g/5mL	10g/5mL	0.98
A3G1485-04	Soil	NWTPH-Dx	07/26/23 11:45	08/02/23 12:10	10.15g/5mL	10g/5mL	0.99
A3G1485-05	Soil	NWTPH-Dx	07/26/23 11:55	08/02/23 12:10	10.18g/5mL	10g/5mL	0.98
A3G1485-06	Soil	NWTPH-Dx	07/26/23 11:42	08/02/23 12:10	10.36g/5mL	10g/5mL	0.97
A3G1485-07	Soil	NWTPH-Dx	07/26/23 11:35	08/02/23 12:10	10.24g/5mL	10g/5mL	0.98
A3G1485-08	Soil	NWTPH-Dx	07/26/23 11:48	08/02/23 12:10	10.29g/5mL	10g/5mL	0.97
A3G1485-09	Soil	NWTPH-Dx	07/26/23 11:59	08/02/23 12:10	10.1g/5mL	10g/5mL	0.99
A3G1485-10	Soil	NWTPH-Dx	07/26/23 10:10	08/02/23 12:10	10.04g/5mL	10g/5mL	1.00
A3G1485-11RE1	Soil	NWTPH-Dx	07/26/23 10:25	08/02/23 12:10	10.24g/5mL	10g/5mL	0.98
A3G1485-12RE1	Soil	NWTPH-Dx	07/26/23 10:42	08/02/23 12:10	10.33g/5mL	10g/5mL	0.97
A3G1485-13	Soil	NWTPH-Dx	07/26/23 10:58	08/02/23 12:10	10.02g/5mL	10g/5mL	1.00

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0928</u>							
A3G1485-01	Soil	NWTPH-Gx (MS)	07/26/23 11:24	07/27/23 17:50	5.75g/5mL	5g/5mL	0.87
A3G1485-02	Soil	NWTPH-Gx (MS)	07/26/23 11:29	07/27/23 17:50	5.1g/5mL	5g/5mL	0.98
A3G1485-03	Soil	NWTPH-Gx (MS)	07/26/23 11:33	07/27/23 17:50	5.07g/5mL	5g/5mL	0.99
A3G1485-04	Soil	NWTPH-Gx (MS)	07/26/23 11:45	07/27/23 17:50	5.17g/5mL	5g/5mL	0.97
A3G1485-05	Soil	NWTPH-Gx (MS)	07/26/23 11:55	07/27/23 17:50	5.22g/5mL	5g/5mL	0.96
A3G1485-06	Soil	NWTPH-Gx (MS)	07/26/23 11:42	07/27/23 17:50	5.43g/5mL	5g/5mL	0.92
A3G1485-07	Soil	NWTPH-Gx (MS)	07/26/23 11:35	07/27/23 17:50	5.53g/5mL	5g/5mL	0.90
A3G1485-08	Soil	NWTPH-Gx (MS)	07/26/23 11:48	07/27/23 17:50	5.52g/5mL	5g/5mL	0.91
A3G1485-09	Soil	NWTPH-Gx (MS)	07/26/23 11:59	07/27/23 17:50	5g/5mL	5g/5mL	1.00
A3G1485-10	Soil	NWTPH-Gx (MS)	07/26/23 10:10	07/27/23 17:50	5.21g/5mL	5g/5mL	0.96
A3G1485-11	Soil	NWTPH-Gx (MS)	07/26/23 10:25	07/27/23 17:50	5.2g/5mL	5g/5mL	0.96
A3G1485-12	Soil	NWTPH-Gx (MS)	07/26/23 10:42	07/27/23 17:50	5.64g/5mL	5g/5mL	0.89
A3G1485-13	Soil	NWTPH-Gx (MS)	07/26/23 10:58	07/27/23 17:50	5.37g/5mL	5g/5mL	0.93

Selected Volatile Organic Compounds by EPA 5035A/8260D

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project/#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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SAMPLE PREPARATION INFORMATION

Selected Volatile Organic Compounds by EPA 5035A/8260D

<u>Prep: EPA 5035A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0928</u>							
A3G1485-01	Soil	5035A/8260D	07/26/23 11:24	07/27/23 17:50	5.75g/5mL	5g/5mL	0.87
A3G1485-11	Soil	5035A/8260D	07/26/23 10:25	07/27/23 17:50	5.2g/5mL	5g/5mL	0.96
A3G1485-12	Soil	5035A/8260D	07/26/23 10:42	07/27/23 17:50	5.64g/5mL	5g/5mL	0.89

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

<u>Prep: EPA 3546</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0205</u>							
A3G1485-10	Soil	EPA 8270E SIM	07/26/23 10:10	08/07/23 05:38	10.17g/5mL	10g/5mL	0.98
A3G1485-12	Soil	EPA 8270E SIM	07/26/23 10:42	08/07/23 05:38	10.23g/5mL	10g/5mL	0.98

<u>Prep: EPA 3546 (Fuels)</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0083</u>							
A3G1485-11	Soil	EPA 8270E SIM	07/26/23 10:25	08/02/23 12:10	10.24g/5mL	10g/5mL	0.98

Percent Dry Weight

<u>Prep: Total Solids (Dry Weight) - 2022</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0942</u>							
A3G1485-01	Soil	EPA 8000D	07/26/23 11:24	07/28/23 10:24			NA
A3G1485-02	Soil	EPA 8000D	07/26/23 11:29	07/28/23 10:24			NA
A3G1485-03	Soil	EPA 8000D	07/26/23 11:33	07/28/23 10:24			NA
A3G1485-04	Soil	EPA 8000D	07/26/23 11:45	07/28/23 10:24			NA
A3G1485-05	Soil	EPA 8000D	07/26/23 11:55	07/28/23 10:24			NA
A3G1485-06	Soil	EPA 8000D	07/26/23 11:42	07/28/23 10:24			NA
A3G1485-07	Soil	EPA 8000D	07/26/23 11:35	07/28/23 10:24			NA
A3G1485-08	Soil	EPA 8000D	07/26/23 11:48	07/28/23 10:24			NA
A3G1485-09	Soil	EPA 8000D	07/26/23 11:59	07/28/23 10:24			NA
A3G1485-10	Soil	EPA 8000D	07/26/23 10:10	07/28/23 10:24			NA
A3G1485-11	Soil	EPA 8000D	07/26/23 10:25	07/28/23 10:24			NA
A3G1485-12	Soil	EPA 8000D	07/26/23 10:42	07/28/23 10:24			NA
A3G1485-13	Soil	EPA 8000D	07/26/23 10:58	07/28/23 10:24			NA

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4C's Environmental Inc.
1590 SE Uglow Ave
Dallas, OR 97338

Project#: **Macadam Chevron/1836**

Project Manager: **Casey Michaels**

Report ID:
A3G1485 - 08 16 23 1711

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-17** RPD between original and duplicate sample is outside of established control limits.
- Q-22** Due to limited sample volume or hold time restraints, the NWTPH-Dx extract was used for the 8270 SIM PAH analysis. Therefore no PAH Surrogates and/or Batch QC results are available. Results are Estimated Values.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- T-02** This Batch QC sample was analyzed outside of the method specified 12 hour analysis window. Results are estimated.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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Darrell Auvil, Client Services Manager



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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported.
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project/#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Darrell Auvil, Client Services Manager



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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. Project#: **Macadam Chevron/1836** Report ID: **A3G1485 - 08 16 23 1711**
1590 SE Uglow Ave Project Manager: **Casey Michaels**
Dallas, OR 97338

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A3G1485 COC 1 of 2

Company: 4C's Environmental Project Mgr: (6564) Project Name: Macadam Chevron Project #: 1836
Address: 1590 SE Uglow Ave, Dallas, TX 75206 Phone: 512-603-3020 Email: PO # 1836

Sampled by: OR WA CA
Site Location: AK ID

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST													
						NWTPH-CID	NWTPH-DX	NWTPH-GX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCA Metals (8)	Priority Metals (13)	Cr, Co, Cu, Fe, Pb, Hg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	TOTAL DISS. TCLP
P2		7/26/23	11:24	SOIL	1	X	X	X											
P3			11:24		1	X	X	X											
P4			11:33		1	X	X	X											
P5			11:45		1	X	X	X											
P6			11:55		1	X	X	X											
P7			11:42		1	X	X	X											
P8			11:35		1	X	X	X											
P9			11:46		1	X	X	X											
P10			11:59		1	X	X	X											
D1			10:10		1	X	X	X											

Normal Turn Around Time (TAT) = 10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: <u>[Signature]</u> Date: <u>7/27/23</u>	RECEIVED BY: Signature: <u>[Signature]</u> Date: <u>7-27-23</u>
Printed Name: <u>Henry Schulte</u>	Printed Name: <u>Dave Schulte</u>
Time: <u>3:07 PM</u>	Time: <u>1:50 PM</u>
Company: <u>4C's Environmental</u>	Company: <u>Apex</u>

Apex Laboratories

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron/1836 Project Manager: Casey Michaels	Report ID: A3G1485 - 08 16 23 1711
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APEX LABS COOLER RECEIPT FORM

Client: 4C's Environmental Element WO#: A3G1485

Project/Project #: Macadam Chevron / 1836

Delivery Info:

Date/time received: 7-27-23 @ 1504 By: DJS

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 7-27-23 @ 1513 By: DJS

Chain of Custody included? Yes No

Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.2</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: _____

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 7-27-23 @ 17:27 By: ZKAM

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information: _____

Labeled by: ZKAM

Witness: AJM

Cooler Inspected by: DJS

Form Y-003 R-00

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, August 16, 2023

Casey Michaels
4C's Environmental Inc.
1590 SE Uglow Ave
Dallas, OR 97338

RE: A3H0735 - Macadam Chevron---1836

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3H0735, which was received by the laboratory on 8/2/2023 at 5:42:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 5.5 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

[Handwritten signature]

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P11	A3H0735-01	Soil	08/01/23 08:20	08/02/23 17:42
P12	A3H0735-02	Soil	08/01/23 08:24	08/02/23 17:42
P13	A3H0735-03	Soil	08/01/23 08:27	08/02/23 17:42
P14	A3H0735-04	Soil	08/01/23 08:31	08/02/23 17:42
P15	A3H0735-05	Soil	08/01/23 08:35	08/02/23 17:42
P16	A3H0735-06	Soil	08/01/23 08:39	08/02/23 17:42
P17	A3H0735-07	Soil	08/01/23 09:45	08/02/23 17:42
P18	A3H0735-08	Soil	08/01/23 09:52	08/02/23 17:42
P19	A3H0735-09	Soil	08/01/23 09:56	08/02/23 17:42
P20	A3H0735-10	Soil	08/01/23 10:00	08/02/23 17:42
P21	A3H0735-11	Soil	08/01/23 10:05	08/02/23 17:42

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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 503-718-2323
 ORELAP ID: OR100062

4C's Environmental Inc.	Project#: Macadam Chevron---1836	Report ID:
1590 SE Uglow Ave	Project Manager: Casey Michaels	A3H0735 - 08 16 23 1708
Dallas, OR 97338		

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P11 (A3H0735-01)				Matrix: Soil		Batch: 23H0137		
Diesel	ND	---	26.4	mg/kg dry	1	08/03/23 23:37	NWTPH-Dx	
Oil	ND	---	52.9	mg/kg dry	1	08/03/23 23:37	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 73 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 23:37</i>	<i>NWTPH-Dx</i>
P12 (A3H0735-02)				Matrix: Soil		Batch: 23H0137		
Diesel	550	---	26.3	mg/kg dry	1	08/03/23 23:58	NWTPH-Dx	
Oil	ND	---	52.5	mg/kg dry	1	08/03/23 23:58	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 23:58</i>	<i>NWTPH-Dx</i>
P13 (A3H0735-03)				Matrix: Soil		Batch: 23H0137		
Diesel	42.7	---	21.8	mg/kg dry	1	08/04/23 00:19	NWTPH-Dx	F-13
Oil	ND	---	43.5	mg/kg dry	1	08/04/23 00:19	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/04/23 00:19</i>	<i>NWTPH-Dx</i>
P14 (A3H0735-04)				Matrix: Soil		Batch: 23H0137		
Diesel	40.8	---	22.0	mg/kg dry	1	08/04/23 00:39	NWTPH-Dx	F-20
Oil	ND	---	44.0	mg/kg dry	1	08/04/23 00:39	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 83 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/04/23 00:39</i>	<i>NWTPH-Dx</i>
P15 (A3H0735-05)				Matrix: Soil		Batch: 23H0137		
Diesel	ND	---	22.7	mg/kg dry	1	08/03/23 20:31	NWTPH-Dx	
Oil	ND	---	45.4	mg/kg dry	1	08/03/23 20:31	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 20:31</i>	<i>NWTPH-Dx</i>
P16 (A3H0735-06)				Matrix: Soil		Batch: 23H0137		
Diesel	ND	---	23.8	mg/kg dry	1	08/03/23 20:52	NWTPH-Dx	
Oil	ND	---	47.7	mg/kg dry	1	08/03/23 20:52	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 20:52</i>	<i>NWTPH-Dx</i>
P17 (A3H0735-07)				Matrix: Soil		Batch: 23H0137		
Diesel	ND	---	25.3	mg/kg dry	1	08/03/23 21:13	NWTPH-Dx	
Oil	ND	---	50.7	mg/kg dry	1	08/03/23 21:13	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 21:13</i>	<i>NWTPH-Dx</i>
P18 (A3H0735-08)				Matrix: Soil		Batch: 23H0137		

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P18 (A3H0735-08)				Matrix: Soil		Batch: 23H0137		
Diesel	ND	---	26.8	mg/kg dry	1	08/03/23 21:33	NWTPH-Dx	
Oil	ND	---	53.5	mg/kg dry	1	08/03/23 21:33	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 21:33</i>	<i>NWTPH-Dx</i>
P19 (A3H0735-09)				Matrix: Soil		Batch: 23H0137		
Diesel	ND	---	19.2	mg/kg wet	1	08/03/23 21:54	NWTPH-Dx	
Oil	ND	---	38.3	mg/kg wet	1	08/03/23 21:54	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 21:54</i>	<i>NWTPH-Dx</i>
P20 (A3H0735-10)				Matrix: Soil		Batch: 23H0137		
Diesel	ND	---	27.2	mg/kg dry	1	08/03/23 22:15	NWTPH-Dx	
Oil	ND	---	54.5	mg/kg dry	1	08/03/23 22:15	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 22:15</i>	<i>NWTPH-Dx</i>
P21 (A3H0735-11)				Matrix: Soil		Batch: 23H0137		
Diesel	ND	---	25.0	mg/kg dry	1	08/03/23 22:35	NWTPH-Dx	
Oil	ND	---	49.9	mg/kg dry	1	08/03/23 22:35	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 81 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>08/03/23 22:35</i>	<i>NWTPH-Dx</i>

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Darrell Auvil, Client Services Manager



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 503-718-2323
 ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P11 (A3H0735-01)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	ND	---	7.86	mg/kg dry	50	08/03/23 13:51	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 106 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 13:51</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>120 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 13:51</i>	<i>NWTPH-Gx (MS)</i>	
P12 (A3H0735-02)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	122	---	8.01	mg/kg dry	50	08/03/23 14:17	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 119 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 14:17</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>109 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 14:17</i>	<i>NWTPH-Gx (MS)</i>	
P13 (A3H0735-03)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	24.1	---	6.69	mg/kg dry	50	08/03/23 14:43	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 96 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 14:43</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>105 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 14:43</i>	<i>NWTPH-Gx (MS)</i>	
P14 (A3H0735-04)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	92.4	---	5.53	mg/kg dry	50	08/03/23 15:09	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 96 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 15:09</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>107 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 15:09</i>	<i>NWTPH-Gx (MS)</i>	
P15 (A3H0735-05)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	ND	---	6.95	mg/kg dry	50	08/03/23 15:34	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 91 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 15:34</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>106 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 15:34</i>	<i>NWTPH-Gx (MS)</i>	
P16 (A3H0735-06)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	ND	---	6.58	mg/kg dry	50	08/03/23 16:00	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 89 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 16:00</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>106 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 16:00</i>	<i>NWTPH-Gx (MS)</i>	
P17 (A3H0735-07)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	ND	---	7.28	mg/kg dry	50	08/03/23 16:26	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 90 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 16:26</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>107 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 16:26</i>	<i>NWTPH-Gx (MS)</i>	
P18 (A3H0735-08)				Matrix: Soil		Batch: 23H0108		V-15

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P18 (A3H0735-08)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	ND	---	8.05	mg/kg dry	50	08/03/23 16:52	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 91 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 16:52</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>108 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 16:52</i>	<i>NWTPH-Gx (MS)</i>	
P19 (A3H0735-09)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	ND	---	4.53	mg/kg wet	50	08/03/23 17:18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 92 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 17:18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>109 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 17:18</i>	<i>NWTPH-Gx (MS)</i>	
P20 (A3H0735-10)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	ND	---	7.89	mg/kg dry	50	08/03/23 17:43	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 93 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 17:43</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>111 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 17:43</i>	<i>NWTPH-Gx (MS)</i>	
P21 (A3H0735-11)				Matrix: Soil		Batch: 23H0108		V-15
Gasoline Range Organics	ND	---	8.13	mg/kg dry	50	08/03/23 18:09	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 93 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>08/03/23 18:09</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>110 %</i>	<i>50-150 %</i>	<i>1</i>	<i>08/03/23 18:09</i>	<i>NWTPH-Gx (MS)</i>	

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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P14 (A3H0735-04)				Matrix: Soil		Batch: 23H0108		V-15
Benzene	ND	---	0.0111	mg/kg dry	50	08/03/23 15:09	5035A/8260D	
Toluene	ND	---	0.0553	mg/kg dry	50	08/03/23 15:09	5035A/8260D	
Ethylbenzene	ND	---	0.0276	mg/kg dry	50	08/03/23 15:09	5035A/8260D	
Xylenes, total	ND	---	0.0829	mg/kg dry	50	08/03/23 15:09	5035A/8260D	
Naphthalene	ND	---	0.111	mg/kg dry	50	08/03/23 15:09	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/03/23 15:09</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/03/23 15:09</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>1</i>	<i>08/03/23 15:09</i>	<i>5035A/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P12 (A3H0735-02)				Matrix: Soil		Batch: 23H0108		V-15
Benzene	ND	---	0.0160	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
Toluene	ND	---	0.0801	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
Ethylbenzene	0.175	---	0.0400	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
Xylenes, total	1.46	---	0.120	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0801	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
Naphthalene	ND	---	0.240	mg/kg dry	50	08/03/23 14:17	5035A/8260D	R-02
1,2-Dibromoethane (EDB)	ND	---	0.0801	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0400	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
Isopropylbenzene	ND	---	0.0801	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
1,2,4-Trimethylbenzene	1.05	---	0.0801	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
1,3,5-Trimethylbenzene	0.398	---	0.0801	mg/kg dry	50	08/03/23 14:17	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 95 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>08/03/23 14:17</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>	<i>1</i>	<i>08/03/23 14:17</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>93 %</i>	<i>79-120 %</i>	<i>1</i>	<i>08/03/23 14:17</i>	<i>5035A/8260D</i>	

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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
P12 (A3H0735-02)				Matrix: Soil		Batch: 23H0205		
Acenaphthene	ND	---	0.0197	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	R-02
Acenaphthylene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Anthracene	ND	---	0.0144	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	R-02
Benz(a)anthracene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Benzo(a)pyrene	0.0133	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Benzo(b)fluoranthene	0.0227	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Chrysene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Fluoranthene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Fluorene	0.0406	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	0.0164	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Naphthalene	ND	---	0.0171	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	R-02
Phenanthrene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
Pyrene	ND	---	0.0131	mg/kg dry	1	08/07/23 14:55	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 60 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>08/07/23 14:55</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>64 %</i>		<i>54-127 %</i>		<i>1</i>	<i>08/07/23 14:55</i>	<i>EPA 8270E SIM</i>

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
P11 (A3H0735-01)				Matrix: Soil		Batch: 23H0116			
% Solids	73.2	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P12 (A3H0735-02)				Matrix: Soil		Batch: 23H0116			
% Solids	75.3	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P13 (A3H0735-03)				Matrix: Soil		Batch: 23H0116			
% Solids	84.8	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P14 (A3H0735-04)				Matrix: Soil		Batch: 23H0116			
% Solids	87.5	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P15 (A3H0735-05)				Matrix: Soil		Batch: 23H0116			
% Solids	81.1	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P16 (A3H0735-06)				Matrix: Soil		Batch: 23H0116			
% Solids	81.8	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P17 (A3H0735-07)				Matrix: Soil		Batch: 23H0116			
% Solids	74.1	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P18 (A3H0735-08)				Matrix: Soil		Batch: 23H0116			
% Solids	73.4	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P19 (A3H0735-09)				Matrix: Soil		Batch: 23H0116			
% Solids	ND	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P20 (A3H0735-10)				Matrix: Soil		Batch: 23H0116			
% Solids	72.9	---	1.00	%	1	08/04/23 08:21	EPA 8000D		
P21 (A3H0735-11)				Matrix: Soil		Batch: 23H0116			
% Solids	75.8	---	1.00	%	1	08/04/23 08:21	EPA 8000D		

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0137 - EPA 3546 (Fuels)						Soil						
Blank (23H0137-BLK1)		Prepared: 08/03/23 15:42 Analyzed: 08/03/23 20:31										
<u>NWTPH-Dx</u>												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 89 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (23H0137-BS1)						Prepared: 08/03/23 15:42 Analyzed: 08/03/23 20:52						
<u>NWTPH-Dx</u>												
Diesel	101	---	20.0	mg/kg wet	1	125	---	81	38 - 132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0108 - EPA 5035A						Soil						
Blank (23H0108-BLK1)		Prepared: 08/03/23 09:55 Analyzed: 08/03/23 12:34										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>120 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23H0108-BS2)		Prepared: 08/03/23 09:55 Analyzed: 08/03/23 12:05										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	25.6	---	5.00	mg/kg wet	50	25.0	---	102	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 87 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>114 %</i>		<i>50-150 %</i>		<i>"</i>						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0108 - EPA 5035A						Soil						
Blank (23H0108-BLK1)			Prepared: 08/03/23 09:55 Analyzed: 08/03/23 12:34									
<u>5035A/8260D</u>												
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0750	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>112 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>87 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23H0108-BS1)			Prepared: 08/03/23 09:55 Analyzed: 08/03/23 11:39									
<u>5035A/8260D</u>												
Benzene	1.10	---	0.0100	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
Toluene	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
Ethylbenzene	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Xylenes, total	2.85	---	0.0750	mg/kg wet	50	3.00	---	95	80 - 120%	---	---	
Naphthalene	0.721	---	0.100	mg/kg wet	50	1.00	---	72	80 - 120%	---	---	Q-55
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>112 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>83 %</i>		<i>79-120 %</i>		<i>"</i>						
Matrix Spike (23H0108-MS1)			Prepared: 08/02/23 19:45 Analyzed: 08/03/23 18:35									V-15
<u>QC Source Sample: P21 (A3H0735-11)</u>												
<u>5035A/8260D</u>												
Benzene	1.69	---	0.0163	mg/kg dry	50	1.63	ND	104	77 - 121%	---	---	
Toluene	1.75	---	0.0813	mg/kg dry	50	1.63	ND	108	77 - 121%	---	---	
Ethylbenzene	1.72	---	0.0407	mg/kg dry	50	1.63	ND	105	76 - 122%	---	---	
Xylenes, total	4.85	---	0.122	mg/kg dry	50	4.88	ND	99	78 - 124%	---	---	
Naphthalene	1.29	---	0.163	mg/kg dry	50	1.63	ND	79	62 - 129%	---	---	Q-54a
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>79-120 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0108 - EPA 5035A						Soil						
Blank (23H0108-BLK1)			Prepared: 08/03/23 09:55 Analyzed: 08/03/23 12:34									
<u>5035A/8260D</u>												
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	0.0750	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>112 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>87 %</i>	<i>79-120 %</i>		<i>"</i>						
LCS (23H0108-BS1)						Prepared: 08/03/23 09:55 Analyzed: 08/03/23 11:39						
<u>5035A/8260D</u>												
Benzene	1.10	---	0.0100	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
Toluene	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80 - 120%	---	---	
Ethylbenzene	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Xylenes, total	2.85	---	0.0750	mg/kg wet	50	3.00	---	95	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	0.986	---	0.0500	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
Naphthalene	0.721	---	0.100	mg/kg wet	50	1.00	---	72	80 - 120%	---	---	Q-55
1,2-Dibromoethane (EDB)	1.13	---	0.0500	mg/kg wet	50	1.00	---	113	80 - 120%	---	---	
1,2-Dichloroethane (EDC)	1.32	---	0.0250	mg/kg wet	50	1.00	---	132	80 - 120%	---	---	Q-56
Isopropylbenzene	0.883	---	0.0500	mg/kg wet	50	1.00	---	88	80 - 120%	---	---	
1,2,4-Trimethylbenzene	0.986	---	0.0500	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
1,3,5-Trimethylbenzene	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 97 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>112 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>83 %</i>	<i>79-120 %</i>		<i>"</i>						

Matrix Spike (23H0108-MS1)	Prepared: 08/02/23 19:45 Analyzed: 08/03/23 18:35	V-15
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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23H0108 - EPA 5035A						Soil							
Matrix Spike (23H0108-MS1)		Prepared: 08/02/23 19:45 Analyzed: 08/03/23 18:35						V-15					
QC Source Sample: P21 (A3H0735-11)													
5035A/8260D													
Benzene	1.69	---	0.0163	mg/kg dry	50	1.63	ND	104	77 - 121%	---	---		
Toluene	1.75	---	0.0813	mg/kg dry	50	1.63	ND	108	77 - 121%	---	---		
Ethylbenzene	1.72	---	0.0407	mg/kg dry	50	1.63	ND	105	76 - 122%	---	---		
Xylenes, total	4.85	---	0.122	mg/kg dry	50	4.88	ND	99	78 - 124%	---	---		
Methyl tert-butyl ether (MTBE)	1.59	---	0.0813	mg/kg dry	50	1.63	ND	98	73 - 125%	---	---		
Naphthalene	1.29	---	0.163	mg/kg dry	50	1.63	ND	79	62 - 129%	---	---	Q-54a	
1,2-Dibromoethane (EDB)	1.84	---	0.0813	mg/kg dry	50	1.63	ND	113	78 - 122%	---	---		
1,2-Dichloroethane (EDC)	1.96	---	0.0407	mg/kg dry	50	1.63	ND	121	73 - 128%	---	---	Q-54	
Isopropylbenzene	1.63	---	0.0813	mg/kg dry	50	1.63	ND	100	68 - 134%	---	---		
1,2,4-Trimethylbenzene	1.65	---	0.0813	mg/kg dry	50	1.63	ND	102	75 - 123%	---	---		
1,3,5-Trimethylbenzene	1.71	---	0.0813	mg/kg dry	50	1.63	ND	105	73 - 124%	---	---		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>79-120 %</i>		<i>"</i>							

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0205 - EPA 3546						Soil						
Blank (23H0205-BLK1)		Prepared: 08/07/23 05:38 Analyzed: 08/07/23 11:57										
EPA 8270E SIM												
Acenaphthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Chrysene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Fluorene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Naphthalene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Phenanthrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>94 %</i>		<i>54-127 %</i>		<i>"</i>						

LCS (23H0205-BS1)		Prepared: 08/07/23 05:38 Analyzed: 08/07/23 12:23										
EPA 8270E SIM												
Acenaphthene	0.785	---	0.0100	mg/kg wet	1	0.800	---	98	40 - 123%	---	---	---
Acenaphthylene	0.773	---	0.0100	mg/kg wet	1	0.800	---	97	32 - 132%	---	---	---
Anthracene	0.742	---	0.0100	mg/kg wet	1	0.800	---	93	47 - 123%	---	---	---
Benz(a)anthracene	0.734	---	0.0100	mg/kg wet	1	0.800	---	92	49 - 126%	---	---	---
Benzo(a)pyrene	0.792	---	0.0100	mg/kg wet	1	0.800	---	99	45 - 129%	---	---	---
Benzo(b)fluoranthene	0.740	---	0.0100	mg/kg wet	1	0.800	---	92	45 - 132%	---	---	---
Benzo(k)fluoranthene	0.836	---	0.0100	mg/kg wet	1	0.800	---	105	47 - 132%	---	---	---
Benzo(g,h,i)perylene	0.600	---	0.0100	mg/kg wet	1	0.800	---	75	43 - 134%	---	---	---
Chrysene	0.791	---	0.0100	mg/kg wet	1	0.800	---	99	50 - 124%	---	---	---
Dibenz(a,h)anthracene	0.787	---	0.0100	mg/kg wet	1	0.800	---	98	45 - 134%	---	---	---
Fluoranthene	0.778	---	0.0100	mg/kg wet	1	0.800	---	97	50 - 127%	---	---	---
Fluorene	0.759	---	0.0100	mg/kg wet	1	0.800	---	95	43 - 125%	---	---	---

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Darrell Auvil, Client Services Manager



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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0205 - EPA 3546						Soil						
LCS (23H0205-BS1)		Prepared: 08/07/23 05:38 Analyzed: 08/07/23 12:23										
Indeno(1,2,3-cd)pyrene	0.733	---	0.0100	mg/kg wet	1	0.800	---	92	45 - 133%	---	---	
Naphthalene	0.713	---	0.0100	mg/kg wet	1	0.800	---	89	35 - 123%	---	---	
Phenanthrene	0.726	---	0.0100	mg/kg wet	1	0.800	---	91	50 - 121%	---	---	
Pyrene	0.784	---	0.0100	mg/kg wet	1	0.800	---	98	47 - 127%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>93 %</i>		<i>54-127 %</i>		<i>"</i>						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0116 - Total Solids (Dry Weight) - 2022						Soil						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0137</u>							
A3H0735-01	Soil	NWTPH-Dx	08/01/23 08:20	08/03/23 15:42	10.34g/5mL	10g/5mL	0.97
A3H0735-02	Soil	NWTPH-Dx	08/01/23 08:24	08/03/23 15:42	10.12g/5mL	10g/5mL	0.99
A3H0735-03	Soil	NWTPH-Dx	08/01/23 08:27	08/03/23 15:42	10.84g/5mL	10g/5mL	0.92
A3H0735-04	Soil	NWTPH-Dx	08/01/23 08:31	08/03/23 15:42	10.38g/5mL	10g/5mL	0.96
A3H0735-05	Soil	NWTPH-Dx	08/01/23 08:35	08/03/23 15:42	10.87g/5mL	10g/5mL	0.92
A3H0735-06	Soil	NWTPH-Dx	08/01/23 08:39	08/03/23 15:42	10.26g/5mL	10g/5mL	0.98
A3H0735-07	Soil	NWTPH-Dx	08/01/23 09:45	08/03/23 15:42	10.66g/5mL	10g/5mL	0.94
A3H0735-08	Soil	NWTPH-Dx	08/01/23 09:52	08/03/23 15:42	10.19g/5mL	10g/5mL	0.98
A3H0735-09	Soil	NWTPH-Dx	08/01/23 09:56	08/03/23 15:42	10.44g/5mL	10g/5mL	0.96
A3H0735-10	Soil	NWTPH-Dx	08/01/23 10:00	08/03/23 15:42	10.08g/5mL	10g/5mL	0.99
A3H0735-11	Soil	NWTPH-Dx	08/01/23 10:05	08/03/23 15:42	10.56g/5mL	10g/5mL	0.95

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0108</u>							
A3H0735-01	Soil	NWTPH-Gx (MS)	08/01/23 08:20	08/02/23 19:33	5.67g/5mL	5g/5mL	0.88
A3H0735-02	Soil	NWTPH-Gx (MS)	08/01/23 08:24	08/02/23 19:34	5.22g/5mL	5g/5mL	0.96
A3H0735-03	Soil	NWTPH-Gx (MS)	08/01/23 08:27	08/02/23 19:35	5.09g/5mL	5g/5mL	0.98
A3H0735-04	Soil	NWTPH-Gx (MS)	08/01/23 08:31	08/02/23 19:36	5.93g/5mL	5g/5mL	0.84
A3H0735-05	Soil	NWTPH-Gx (MS)	08/01/23 08:35	08/02/23 19:37	5.33g/5mL	5g/5mL	0.94
A3H0735-06	Soil	NWTPH-Gx (MS)	08/01/23 08:39	08/02/23 19:38	5.59g/5mL	5g/5mL	0.89
A3H0735-07	Soil	NWTPH-Gx (MS)	08/01/23 09:45	08/02/23 19:39	6.1g/5mL	5g/5mL	0.82
A3H0735-08	Soil	NWTPH-Gx (MS)	08/01/23 09:52	08/02/23 19:40	5.47g/5mL	5g/5mL	0.91
A3H0735-09	Soil	NWTPH-Gx (MS)	08/01/23 09:56	08/02/23 19:43	5.52g/5mL	5g/5mL	0.91
A3H0735-10	Soil	NWTPH-Gx (MS)	08/01/23 10:00	08/02/23 19:43	5.69g/5mL	5g/5mL	0.88
A3H0735-11	Soil	NWTPH-Gx (MS)	08/01/23 10:05	08/02/23 19:45	5.04g/5mL	5g/5mL	0.99

BTEX+N Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0108</u>							
A3H0735-04	Soil	5035A/8260D	08/01/23 08:31	08/02/23 19:36	5.93g/5mL	5g/5mL	0.84

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SAMPLE PREPARATION INFORMATION

Selected Volatile Organic Compounds by EPA 5035A/8260D

<u>Prep: EPA 5035A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0108</u>							
A3H0735-02	Soil	5035A/8260D	08/01/23 08:24	08/02/23 19:34	5.22g/5mL	5g/5mL	0.96

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

<u>Prep: EPA 3546</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0205</u>							
A3H0735-02	Soil	EPA 8270E SIM	08/01/23 08:24	08/07/23 05:38	10.13g/5mL	10g/5mL	0.99

Percent Dry Weight

<u>Prep: Total Solids (Dry Weight) - 2022</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23H0116</u>							
A3H0735-01	Soil	EPA 8000D	08/01/23 08:20	08/03/23 10:22			NA
A3H0735-02	Soil	EPA 8000D	08/01/23 08:24	08/03/23 10:22			NA
A3H0735-03	Soil	EPA 8000D	08/01/23 08:27	08/03/23 10:22			NA
A3H0735-04	Soil	EPA 8000D	08/01/23 08:31	08/03/23 10:22			NA
A3H0735-05	Soil	EPA 8000D	08/01/23 08:35	08/03/23 10:22			NA
A3H0735-06	Soil	EPA 8000D	08/01/23 08:39	08/03/23 10:22			NA
A3H0735-07	Soil	EPA 8000D	08/01/23 09:45	08/03/23 10:22			NA
A3H0735-08	Soil	EPA 8000D	08/01/23 09:52	08/03/23 10:22			NA
A3H0735-09	Soil	EPA 8000D	08/01/23 09:56	08/03/23 19:14			NA
A3H0735-10	Soil	EPA 8000D	08/01/23 10:00	08/03/23 10:22			NA
A3H0735-11	Soil	EPA 8000D	08/01/23 10:05	08/03/23 10:22			NA

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ORELAP ID: OR100062

4C's Environmental Inc.

1590 SE Uglow Ave

Dallas, OR 97338

Project#: Macadam Chevron---1836

Project Manager: Casey Michaels

Report ID:

A3H0735 - 08 16 23 1708

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- F-20 Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs.
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +12%. The results are reported as Estimated Values.
- Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -8%. The results are reported as Estimated Values.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project/#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported.
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
 - " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
 - " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
 - " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Darrell Auvil, Client Services Manager



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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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4C's Environmental Inc. 1590 SE Uglow Ave Dallas, OR 97338	Project/#: Macadam Chevron---1836 Project Manager: Casey Michaels	Report ID: A3H0735 - 08 16 23 1708
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APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A3H0735 COC 1 of 2

Company: **4C's Environmental Inc.** Project Name: Macadam Chevron Project #: 1836

Address: 1590 SE Uglow Ave. Phone: 503 506 3020 Email: _____ PO # 1836

Address: Dallas, OR 97338

Sampled by: _____

Site Location: OR WA CA

AK ID _____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	SPECIAL INSTRUCTIONS:			
						NWTPH-HCID	NWTPH-DX	NWTPH-GX	8260 RTEK
P11		9/12/23	8:20	Soil	1		X		
P12		8-24			1	X	X		
P13		8-27			1	X	X		
P14		8-31			1	X	X		
P15		8-35			1	X	X		
P16		8-39			1	X	X		
P17		9-45			1	X	X		
P18		9-52			1	X	X		
P19		9-56			1	X	X		
P20		9-123	10:00	Soil	1	X	X		

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: <u>[Signature]</u> Date: <u>9/12/23</u> Printed Name: <u>Darrell Meyer</u> Time: <u>5:42</u> Company: <u>4C's</u>	RECEIVED BY: Signature: _____ Date: _____ Printed Name: _____ Time: _____ Company: _____
--	---

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

4C's Environmental Inc. Project/#: **Macadam Chevron---1836**
1590 SE Uglow Ave Project Manager: **Casey Michaels**
Dallas, OR 97338 **Report ID:**
A3H0735 - 08 16 23 1708

CHAIN OF CUSTODY

APEX LABS 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323
Lab # A3H0735 COC 2 of 2

Company: **4C's Environmental Inc.** Project Mgr: Casey Project Name: Macadam Chevron Project #: 1836
Address: 1590 SE Uglow Ave. Phone: 503 606 3020 Email: _____ PO # 1836
Dallas, OR 97338

Sampled by: _____
Site Location: WA CA
AK ID _____

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-GX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	AL, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, TL, V, Zn	TCLP Metals (8)	TOTAL DISS. TCLP	Archive	
P21	8/17/23	16:25 (Sec)		1	X	X																

ANALYSIS REQUEST

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: _____

RELINQUISHED BY: Signature: <u>Darrell Meyer</u> Printed Name: <u>Darrell Meyer</u> Date: <u>8/17/23</u> Time: <u>5:47</u> Company: <u>4C's</u>	RECEIVED BY: Signature: _____ Printed Name: _____ Date: _____ Time: _____ Company: _____
---	--

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: <u>Darrell Meyer</u> Printed Name: <u>Darrell Meyer</u> Date: <u>8/17/23</u> Time: <u>19:42</u> Company: <u>Apex</u>	RECEIVED BY: Signature: _____ Printed Name: _____ Date: _____ Time: _____ Company: _____
--	--

Apex Laboratories

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Darrell Auvil, Client Services Manager



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APEX LABS COOLER RECEIPT FORM

Client: 4C's Environmental Element WO#: A3H0735

Project/Project #: Macadam Chevron 1836

Delivery Info:

Date/time received: 8/2/23 @ 17:42 By: AAW

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 8/2/23 @ 17:42 By: AAW

Chain of Custody included? Yes No

Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>5.5</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) N Possible reason why: _____

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 8/2/23 @ 18:59 By: AAW

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information: _____

Labeled by: AAW

Witness: KAM

Cooler Inspected by: AAW

Form Y-003 R-00

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