

INDOOR AIR INVESTIGATION REPORT

**Travel Salem
630 Center Street Northeast,
Salem, Oregon 97301
LUST #24-22-0426**

Report Prepared For:

**Angie Villery, President & CEO
Travel Salem
630 Center Street NE
Salem, OR 97301**

Report Prepared by:



**25195 SW Parkway Ave., Suite 207
Wilsonville, OR 97070
503-570-9484**

April 7, 2025

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COMMON ACRONYMS

The following is a list of common acronyms typically utilized by environmental consultants in this area. The list of acronyms is not intended to be a complete list and all listed acronyms may not be utilized in this report.

AOC	Area of Concern
AST(s)	Aboveground Storage Tank(s)
ASTM	American Society for Testing and Materials
AULs	Activity and Use Limitations
BB&A	BB&A Environmental
BLS	Below Land Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations
COC	Contaminant of Concern
COI	Contaminants of Interest
COPC	Contaminants of Potential Concern
CRL	Confirmed Release List
CSM	Conceptual Site Model
DEQ	Oregon Department of Environmental Quality
DWP	Drinking Water Protection
ECSI	Environmental Cleanup Site Information
EDB	1,2-Dibromoethane
EDC	1,2-Dichloroethane
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
ESA	Environmental Site Assessment
FS	Feasibility Study
IRAM	Interim Remedial Action Measures
LQG	Large Quantity Generators
LEL	Lower Explosive Limit
LUST	Leaking Underground Storage Tank
MDL(s)	Method-Detection Limit(s)
MRL(s)	Method-Reporting Limit(s)
MTBE	Methyl Tert-Butyl Ether
NFRAP	No Further Remedial Action Planned
NPL	National Priority List

NRC	National Response Center
OAR	Oregon Administrative Rules
PAH(s)	Polynuclear Aromatic Hydrocarbon(s)
PCB(s)	Polychlorinated Biphenyl(s)
PCE	Tetrachloroethylene or Perchloroethylene
PCS	Petroleum Contaminated Soil
PPB	Parts Per Billion
PPM	Parts Per Million
PQL(s)	Practical Quantitative Limits(s)
RAO	Remedial Action Objective
RBC(s)	Risk-Based Concentration(s)
<i>RBDM</i> Guidance Document	<i>Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites</i> dated September 22, 2003.
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
REC	Recognized Environmental Condition
RI	Remedial Investigation
RSL	Regional Screening Level (EPA)
TA	TestAmerica
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TMB	Trimethylbenzene
TOTZ	Time of Travel Zone
TPH	Total Petroleum Hydrocarbons
TSD	Treatment, Storage, and Disposal
UST(s)	Underground Storage Tank(s)
VEC	Vapor Encroachment Condition
VOC(s)	Volatile Organic Compound(s)
VPH	Volatile Petroleum Hydrocarbons
WRD	Oregon Water Resources Department

1.0 INTRODUCTION

This report presents the results of investigative actions undertaken at the former retail service station property and newly remodeled Travel Salem building, located at 630 Center Street NE in Salem, Oregon (herein referred to as the *subject property or site*). A Site Location Map depicting the general location of the *subject property* is included as **Figure 1**. An aerial image depicting the *subject property* and surrounding area as currently developed is included as **Figure 2**. A Site Plan is included as **Figure 3**. Investigative and corrective actions summarized in this report include:

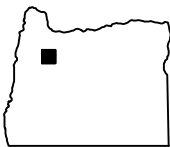
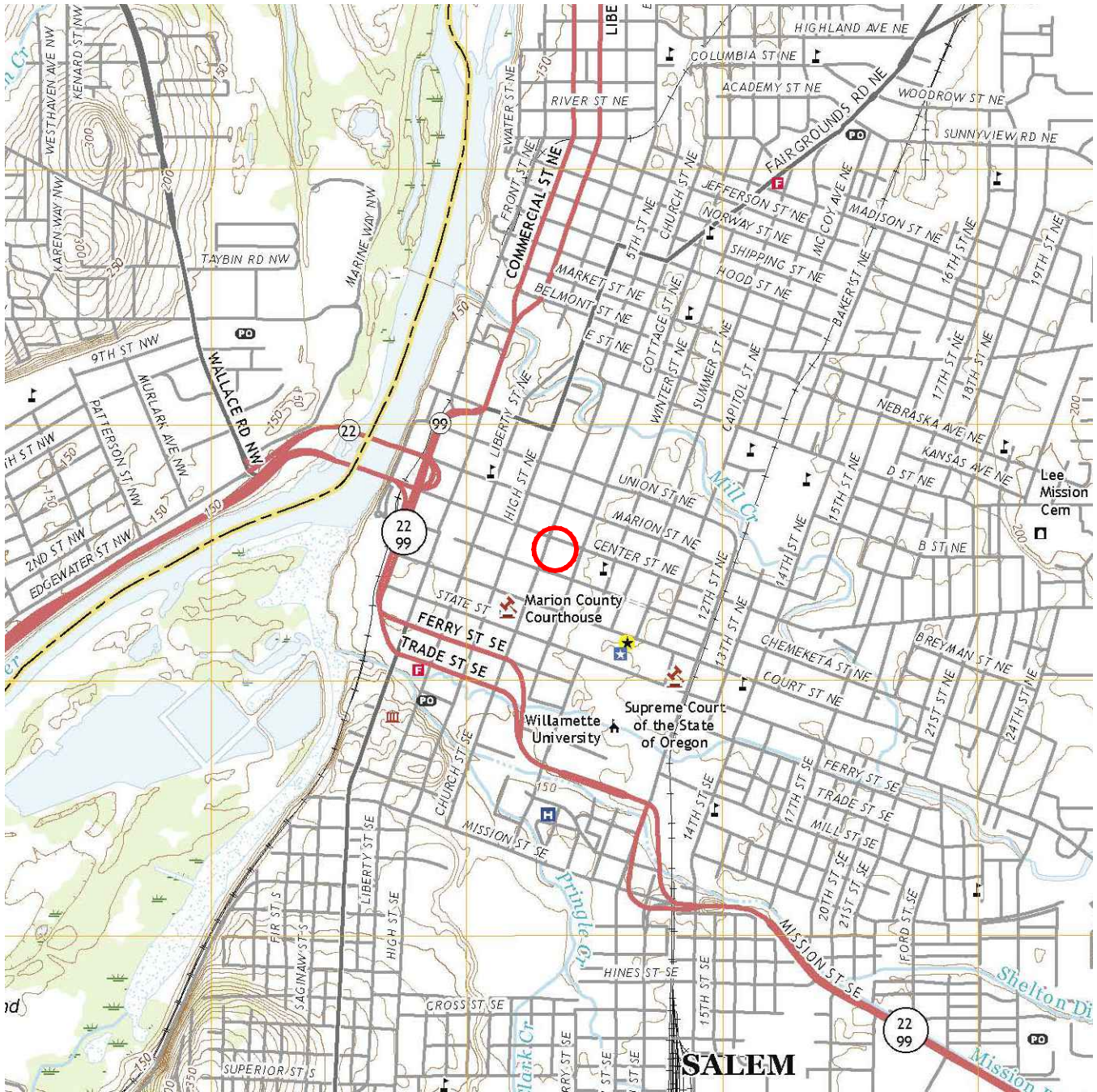
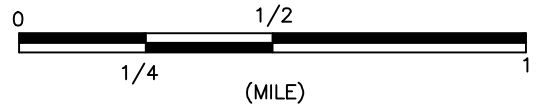
- ▶ Indoor Air Sampling (October 2023)
- ▶ Indoor Air Sampling (April 2024)
- ▶ Indoor Air Sample (March 2025)

The contaminant constituents detected at the site were compared to the Risk-Based Concentrations (RBC) given in Appendix A of the *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites*, last revised, June 2023.

1.1 Background - Phase I and II Assessments (2020/2021)

In September 2020, Partner Engineering and Science, Inc. (Partner) performed a Phase I Environmental Site Assessment (ESA) at the *subject property*. According to historical records, the *subject property* was previously developed with residential structures as early as 1888, and was then developed as a gasoline service station and automotive repair/dealership operation between 1945 and 1975. While operating as a gasoline service station, the *subject property* reportedly utilized the following five (5) underground storage tanks (USTs) on the southwest corner of the *subject property*: three (3) 4,000-gallon capacity USTs; one (1) 6,000-gallon capacity UST; and one (1) 10,000-gallon capacity UST of unknown contents. According to available information, these USTs were decommissioned by removal in 1978; however, no subsurface investigations or closure records are available. Reports of petroleum odors were historically reported in the elevator cab of the present-day building, which is located approximately 65 feet northeast of the former UST cavity. The *subject property* was also reportedly occupied by various automotive repair operations, including automotive sales and service facilities, an automotive repair shop, tire shop, and lubrication building from as early as 1948 until 1978.

Additionally, an adjacent property east and hydrologically upgradient of the *subject property*, Center Street Cardlock, is documented to have petroleum-related contamination in groundwater. In addition, a documented release of heating oil (ECSI Site #5877) was identified at the adjacent property to the west (across Church Street NE).



OREGON



SITE LOCATION

FIGURE 1

SITE VICINITY MAP

COMMERCIAL PROPERTY, 630 CENTER STREET NE, SALEM, OR



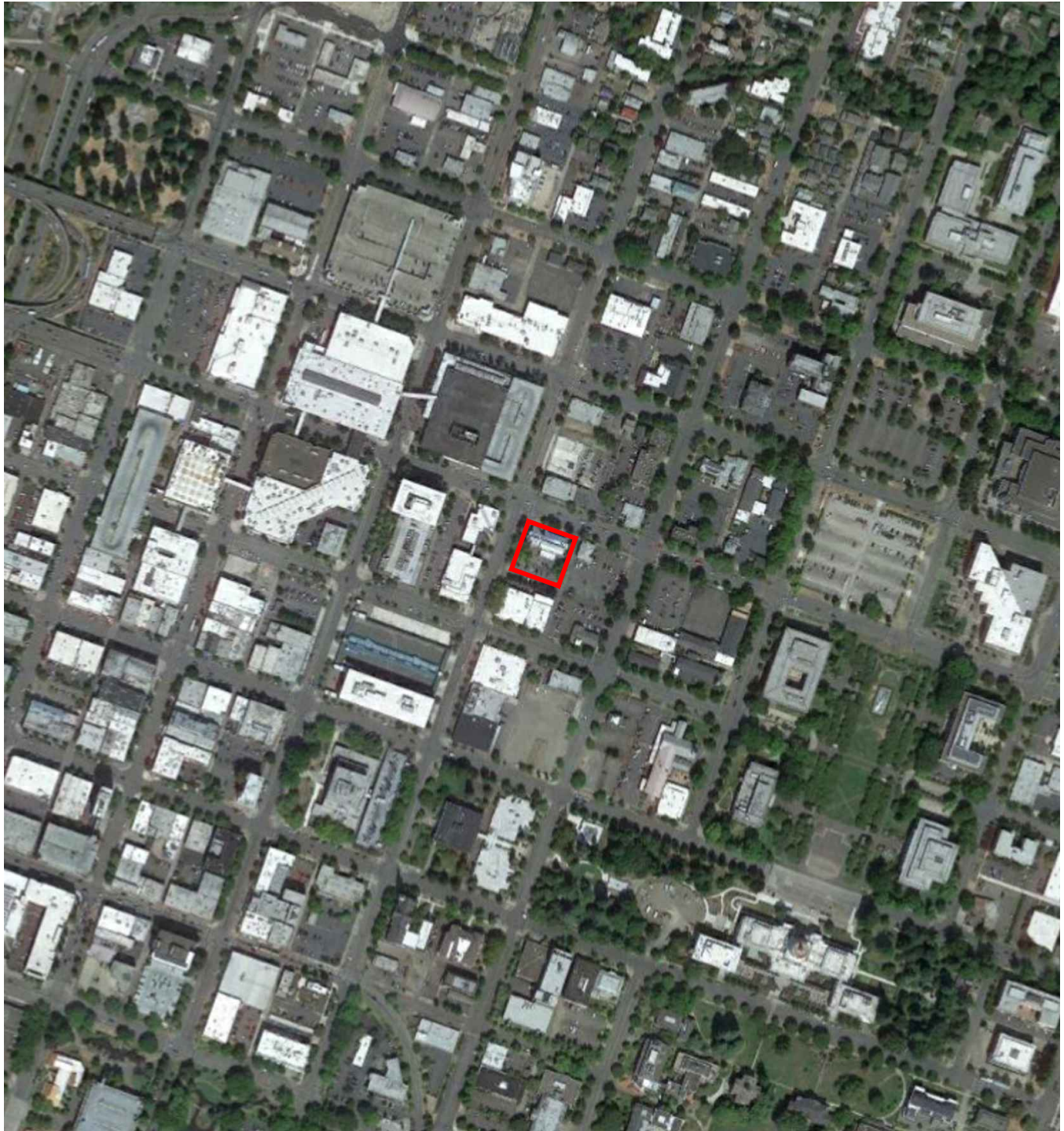
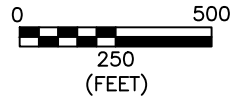
EUGENE OFFICE
32986 Roberts Ct.
Coburg, OR
ph: 541.484.9484

PORTLAND OFFICE
25195 SW Parkway Ave., #207
Wilsonville, OR
ph: 503.570.9484

Job Code: TSI01RSK.22
CADD File: TSI01RSK.22
Scale: AS SHOWN
Drawn: KATHRYN DAVIS DESIGNS
Checked: RANDALL BOESE
Date: 05/27/23

SOURCE: USGS TOPOGRAPHIC QUADRANGLE
SERIES: 7.5 MINUTES, SALEM WEST, OR

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 SITE LOCATION



EUGENE OFFICE
32986 Roberts Ct.
Coburg, OR
ph: 541.484.9484

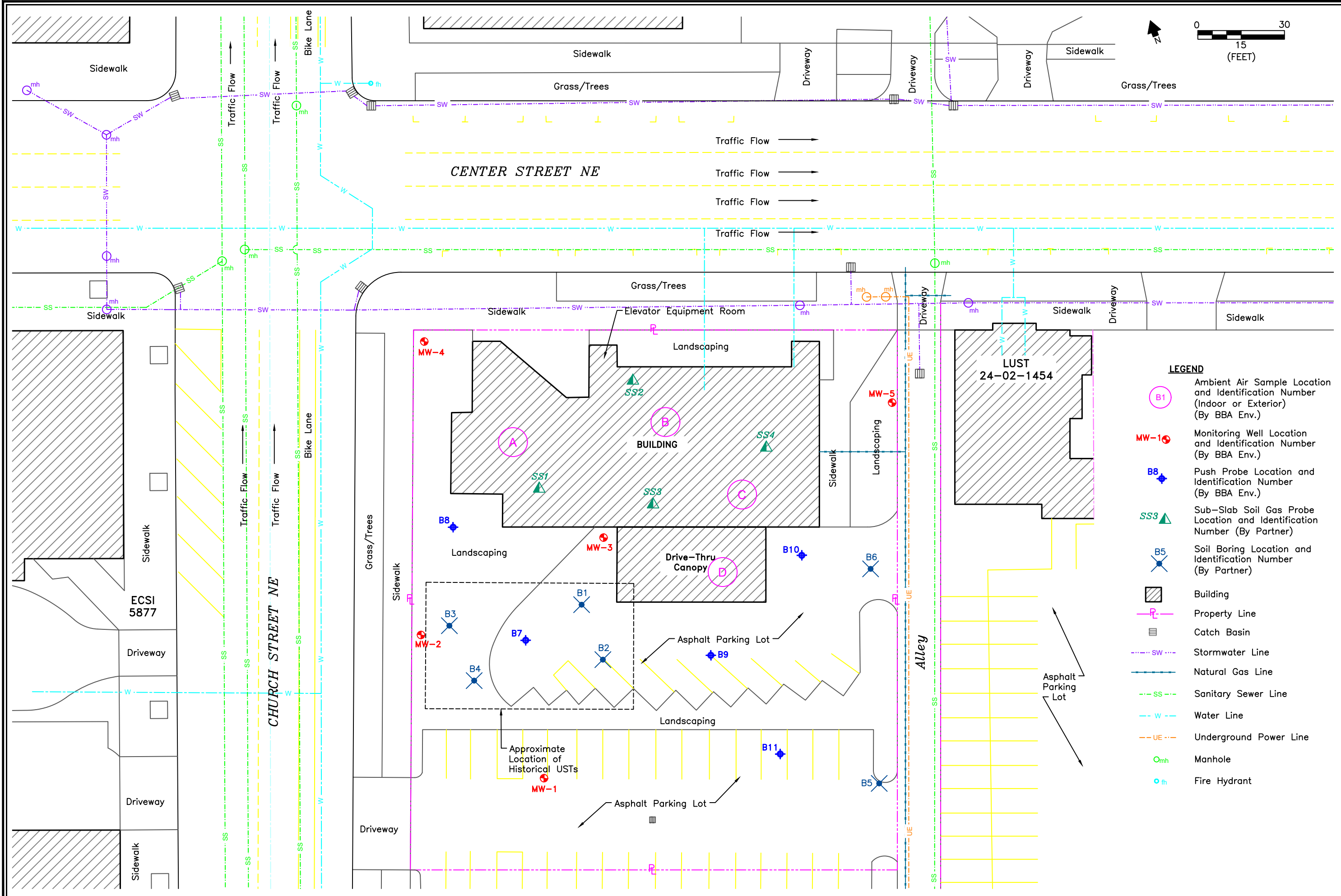
PORTLAND OFFICE
25195 SW Parkway Ave., #207
Wilsonville, OR
ph: 503.570.9484

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**SITE AERIAL
COMMERCIAL PROPERTY**
630 CENTER STREET NORTHEAST, SALEM, OREGON

PROJECT CODE: TSI01RSK.22	DATE: 05/27/23	SCALE: AS SHOWN	DRAWN: K.D.DESIGNS	CHECKED: RANDALL BOESE
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FIGURE #:
2



- LEGEND**
- B1 Ambient Air Sample Location and Identification Number (Indoor or Exterior) (By BBA Env.)
 - MW-1 Monitoring Well Location and Identification Number (By BBA Env.)
 - ◆ BB Push Probe Location and Identification Number (By BBA Env.)
 - ▲ SS3 Sub-Slab Soil Gas Probe Location and Identification Number (By Partner)
 - ✕ B5 Soil Boring Location and Identification Number (By Partner)
 - Building
 - Property Line
 - Catch Basin
 - Stormwater Line
 - Natural Gas Line
 - Sanitary Sewer Line
 - Water Line
 - Underground Power Line
 - Manhole
 - Fire Hydrant

FIGURE #
3

**SITE PLAN SHOWING UTILITIES
COMMERCIAL PROPERTY
630 CENTER STREET NORTHEAST, SALEM, OREGON**

EUGENE OFFICE
32986 Roberts Ct.
Coburg, OR
ph: 541.484.9484

PORTLAND OFFICE
25195 SW Parkway Ave., #207
Wilsonville, OR
ph: 503.570.9484

PROJECT CODE: TS101MEC.22UC
DATE: 04/22/24
SCALE: 1"=30'
DRAWN: K.D.DESIGNS
CHECKED: RANDALL BOESE
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February 2021 Phase II Subsurface Investigation

On February 26, 2021, Partner advanced four (4) soil borings (B1 through B4) in the northeast, southeast, northwest, and southwest areas of the historical USTs, and two soil borings (B5 and B6) in the central and southeast portions of the eastern property boundary of the *subject property*. Additionally, four (4) sub-slab probes (SS1 through SS4) were advanced in the southwest, north, south, and east portions of the *subject property* building, respectively. Soil borings B1 through B6 were advanced to depths between five (5) and 25 feet below ground surface (BGS). Soil samples were collected from various intervals from borings B1 through B4; no soil samples were collected from borings B5 and B6. Groundwater samples were collected from borings B1 through B4. Soil gas probes were screened at five (5) feet BGS upon completion of soil sampling.

Soil Gas Results: Soil gas analytical results indicated the following volatile organic compounds (VOCs) were detected at concentrations above laboratory Method-Reporting Limits (MRLs): acetone, benzene, 1,3-butadiene, carbon disulfide, chloromethane, cyclohexane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, ethanol, ethylbenzene, 4-ethyltoluene, trichlorofluoromethane, dichlorodifluoromethane, heptane, n-hexane, isopropylbenzene, methylene chloride, methyl butyl ketone, 2-butanone (MEK), 4-methyl-2-butanone, 1,1-difluoroethane, propene, styrene, tetrachloroethene (PCE), toluene, trichloroethene (TCE), 1,2,4-TMB, 1,3,5-TMB, 2,2,4-trimethylpentane, xylenes. None of the detected VOCs exceeded the RBC for *Vapor Intrusion into Buildings* for the *Occupational* pathway.

The analytical results indicate a release of hazardous materials associated with the former USTs and former automotive repair shop has impacted the *subject property*. Based on a lack of elevated VOC concentrations in soil gas along the eastern property boundary of the *subject property*, the off-site release does not appear to pose a threat to human health at the *subject property*. As long as the *subject property* remains of commercial use, no further investigations were recommended; however, the Phase II ESA stated that additional investigations were warranted if the *subject property* is redeveloped for a more sensitive use (i.e., residential).

1.2 Investigation for Magnitude and Extent - 2022

In November 2022, four (4) soil-gas samples contained detectable concentrations of various gasoline related VOCs. Only soil gas sample SS-04 contained detected concentrations of gasoline-range TPH, which was detected at a concentration of 851 ug/m³. All detected contaminants were detected at concentrations below applicable Occupational RBCs. The leak detected analyte (2-propanol) was detected in all soil gas samples. The detected concentration of 2-propanol in soil gas sample SS-04 during the testing was above 10% of that detected in the shroud, indicating unsatisfactory tests.

Sub-Slab Soil Gas Sampling (May 2023): In May 2023, four (4) soil gas samples contained detectable concentrations of various gasoline related VOCs. Sub-slab soil gas samples SS-1, SS-2, and SS-3 contained detected concentrations of gasoline-range TPH ranging from 863 ug/m³ to 246,000 ug/m³. These detected concentrations were below applicable Occupational RBCs. Of the various VOCs detected, all remained below applicable Occupational RBCs. The leak detected analyte (2-propanol) was detected in all soil gas samples. The detected concentration of 2-propanol was at or below 10% in all sub-slab soil gas samples, indicating satisfactory test results.

Note: In June 2023, the DEQ updated the RBCs for soil gas. As a results of this update, a few gasoline related compounds detected during the November 2022 and the May 2023 soil gas sampling events were found to exceed the updated RBCs. As a result, an indoor sampling event was conducted in October 2023 to measure actual exposure.

2.0 SITE DESCRIPTION

2.1 Location, Legal Description, and Land Use (Zoning)

The *subject property* is located at 630 Center Street Northeast in Salem, Oregon. The *subject property* is identified as Marion County tax lot 5500 of map number 073W22DD, approximately 0.76 acres in size. According to the City of Salem zoning map, the *subject property* and surrounding area is zoned Central Business District (CB). The general location of the *subject property* is depicted on the Site Location Map included as **Figure 1**. The configuration of the *subject property* and surrounding area as currently developed is presented on the Site Vicinity Map included as **Figure 2**. A Site Plan is provided as **Figure 3**.

2.2 Subject Property Description and History

The *subject property* is comprised of Marion County tax lot 5500 of map number 073W22DD, approximately 0.76 acres in size, located on the southeast corner of intersecting Center Street NE and Church Street NE. According to the previous Phase I ESA, the *subject property* was developed with a gasoline service station and equipped with five (5) USTs, including three (3) 4,000-gallon capacity USTs, one (1) 6,000-gallon capacity UST, and one (1) 10,000-gallon capacity UST of unknown contents. The USTs were removed in 1978. Additionally, the *subject property* was occupied by various automotive repair operations, including an automotive sales and service facility, automotive repair shop, tire shop, and lubrication building until 1978. The current-day commercial structure was developed in 1978 and was occupied by numerous commercial offices and banking tenants through 2016. The *subject property* is currently developed with a two-story office building, with a full basement, approximately 19,540 square feet in size. The building was previously utilized as a bank, but is now currently occupied by *Travel Salem*. The *subject property* includes the surrounding asphalt-paved parking areas, with minimal landscaping.

2.3 Current Use of Adjoining Properties

The *subject property* is bordered to the north by Center Street NE, beyond which are commercial properties. To the east, the *subject property* is bordered by Town Center Apartments. To the west, the *subject property* is bordered by Church Street NE, beyond which is Columbia Bank. To the south, the *subject property* is bordered by a parking lot and then commercial properties, including a title company and Korean restaurant.

2.4 Utility Information

Storm water drains are located at various points on the *subject property* driveways and parking lots, which collect storm water runoff primarily by sheet flow action across the paved surfaces. Storm water entering the catch basins is conveyed to the City of Salem stormwater system. The *subject property* is connected to the City of Salem sanitary sewer and municipal water-supply system. Solid waste is disposed of in commercial dumpsters near the rear of the *subject property*, which is removed by an independent solid waste disposal contractor. Other agencies with utilities in the vicinity of the site include Portland General Electric and NW Natural Gas.

3.0 HYDROGEOLOGIC SETTING

3.1 Physical Setting

The *subject property* is situated within the northern Willamette Valley physiographic province, which is bounded by the Coast Range to the west, and the Cascade Range to the east. This area is characterized by unconsolidated beds of silt, sand, and gravel that were deposited as alluvial and lacustrine deposits associated with the Willamette River.

The *subject property* is situated at an elevation of approximately 155 feet above mean sea level (MSL). The Willamette River is approximately one-half mile west of the *subject property* and regional topography dips west towards and along the Willamette River.

3.2 Local and Regional Geologic and Hydrogeologic Conditions

Based on the review of the U.S. Geological Survey Water-Supply Paper 1594-F, titled, *Hydrologic Conditions and Artificial Recharge in the Salem Heights Area of Salem, Oregon*, the *subject property* and surrounding area are underlain by Pleistocene-age lacustrine and alluvial sedimentary deposits (Qal) composed of unconsolidated silt, sand, and gravel. Based on soils encountered in on-site monitoring wells, subsurface native soils consist of brown silty clay to approximately three (3) feet below land surface (BLS); and sandy alluvium gravels from three (3) to 20 feet BLS. Uppermost static groundwater was found to occur at a depth of approximately 13 feet BLS, and flow in a west to northwest direction. The subject property receives water from the municipal water supply system (i.e., groundwater is not used for domestic purposes).

4.0 INDOOR AIR SAMPLING – THIRD SAMPLING EVENT

The purpose of the indoor air sampling events in the basement of the building was to determine if sub-slab soil gas concentrations are entering into the occupied space of the on-site building. Note that indoor air sampling within the basement represents worst-case conditions. Per an approved work plan dated September 29, 2023, three (3) ambient indoor air-samples were collected at locations A, B, and C (see **Figure 3 – Site Plan**) from the basement of the on-site building to evaluate indoor air quality and potential for inhalation of gasoline vapors and associated constituents. A fourth sample, identified as location D, was a designated background outdoor sample outside the structure for comparison. The focus of the air sampling was to identify potential concentrations of organic vapors associated with gasoline-range petroleum hydrocarbons and associated constituents as measured in sub-slab soil gas samples during two (2) sampling events.

The soil gas samples were analyzed by Pace Analytical using Method TO-15, for gasoline-range TPH (i.e., low-fraction TPH) and full-list VOCs. For the third sampling event, naphthalene was analyzed by Method TO-15-SIM to attain lower reporting limits than that of Method TO-15.

4.1 Indoor Air Sampling Methodology

As part of the third sampling event, conducted on March 18/19, 2025, three (3) ambient indoor air-samples were collected from the basement of the building to evaluate indoor air quality and potential for inhalation of gasoline vapors and associated constituents. A fourth sample was collected outside the building as an ambient air sample. The sample locations are provided on **Figure 3**.

All of the air samples were collected using 6-liter certified summa canisters under vacuum pressures of approximately 26 to 30 inches of vacuum. For this sampling event, two (2) of the indoor air samples were collected over an eight (8) hour period on March 18, 2025, during normal working hours of 9am to 5pm, and a third indoor air sample was collected over a 24-hour period (March 18 to March 19, 2025). The outdoor / ambient air sample was collected over an eight (8) hour period during normal working hours of 9am to 5pm, on March 18, 2025.

The canisters were placed at the locations shown on **Figure 3**, flow regulators attached, and the vacuum and time recorded onto the chain-of-custody record for each individual canister. Each canister was then left undisturbed for the sampling period. At completion of the sample collection period, the time and ending vacuum was then recorded for each canister, the flow regulator removed, and the canister sealed. The canisters were then shipped to Pace Analytical in Mount Juliet, Tennessee, for analysis of TPH as gasoline and gasoline related volatile organic compounds (VOCs) by GC/MS using Modified EPA TO-15 (specified low detection limits); note that naphthalene was analyzed by Method TO-15-SIM to attain lower reporting limits.

During the indoor sampling event, the HVAC system was operating, and the barometric pressure was measured and recorded inside the basement and outdoors every 30 minutes during the eight (8) hour sampling period on March 18, 2025. At the time of picking up the 24-hour sampling canister, barometric pressure was once again measured and recorded from the basement and outdoors. Those results are shown below, and appears to show that the barometric pressure inside the basement is approximately 0.01 to 0.02 inches of mercury (in Hg) greater inside the basement than outdoors – indicating that the HVAC system is pressurizing the building, and possibly limiting the potential vapor intrusion of contaminants volatilizing from source soil and groundwater beneath the building.

Table 1: Barometric Pressure in the Basement and Outside the Building			
Time (3/18/2025)	Indoor Basement (in Hg)	Outdoor (in Hg)	Difference (in Hg)
9:00	30.76	30.75	0.01
9:30	30.77	30.76	0.01
10:00	30.78	30.76	0.02
10:30	30.79	30.77	0.02
11:00	30.79	30.78	0.01
11:30	30.8	30.79	0.01
12:00	30.81	30.80	0.01
12:30	30.8	30.79	0.01
1:00	30.8	30.79	0.01
1:30	30.79	30.77	0.02
2:00	30.79	30.77	0.02
2:30	30.79	30.77	0.02
3:00	30.79	30.77	0.02
3:30	30.78	30.76	0.02
4:00	30.77	30.76	0.01
4:30	30.77	30.76	0.01
5:00	30.77	30.75	0.02
9:20AM (3/19/2025)	30.53	30.52	0.01

It is important to note that the basement has been in the process of being remodeled for the past two (2) years, including texturing and painting the walls and ceilings, as well as adding flooring materials. Some compounds detected in the basement areas may be related to products utilized in the remodel. It is also important to note that two (2) tenants utilize small offices within the basement on a very limited basis – generally only two (2) to three (3) days per week.

The air sample locations proposed and include the following:

- **Sample A1, A2, and A3** - West end of building basement;
- **Sample B1, B2, and B3** - Approximate north-center of building basement;
- **Sample C1, C2, and C3** - South-southeast portion of the building basement; and
- **Sample D1, D2, and D3** - Exterior (background sample) south of the building.

4.2 Weather Conditions During Sample Collection

During the periods of sample collection, the following weather conditions were noted (using wunderground.com for the Salem Airport, Oregon weather station):

March 18, 2025 (9:00 am – 5:00 pm):

- **Temperature:** Temperatures ranged from a low of approximately 42° F to a high of 53° F.
- **Wind Speed:** Winds were light to moderate at six (6) to 13 mph.
- **Barometric Pressure:** As noted by hand-held barometric meter, outdoor barometric pressure during the eight (8) hour sampling period ranged from a low of 30.75 in Hg at 9:00 AM to a high of to 30.80 in Hg at noon, and then decreasing to 30.75 in Hg at 5:00 PM. It should be noted that overnight the barometric pressure dropped to 30.53 and 30.52 in Hg in the basement and outside, respectively.

4.3 Utilities and HVAC System

Various utilities are shown on the Site Plan presented as **Figure 3**. Standard utilities (e.g., sewer, water) are present in adjoining right-of-ways. Connections to the building are assumed from the north and west at various elevations. The building includes three (3) floors as described below:

Basement:	6,370 sq. ft.
1 st Floor:	6,650 sq. ft.
2 nd Floor:	<u>6,975 sq. ft.</u>
Total:	19,995 gross sq. ft.

The concrete basement floor is approximately six (6) inches thick, foundation walls are assumed to be similar. Floor and wall vapor barriers could not be confirmed but are likely present given below grade construction. The elevation of the basement floor is estimated to be 10-11 feet BLS or roughly two (2) to four (4) feet above the seasonal highwater table. Soils beneath the site consist primarily of sandy gravels which would assume to allow vapor migration regardless of utility conduits.

4.4 Indoor Air Sampling Results

The indoor air sampling results are summarized in **Table 2**. The indoor air laboratory reports and chain-of-custody records are enclosed in **Appendix A**. Included in **Table 2** are applicable commercial (i.e., non-residential) RBC's for *Commercial Indoor Air*. Indoor air sample results are included as **Figure 4**.

The results of the October 4, 2023, indoor air sampling event identified multiple VOCs in all four (4) air samples. However, no gasoline-range TPH was detected in either of the three (3) indoor or the one (1) outdoor air samples. Gasoline related VOCs, including benzene, toluene, and xylenes were detected, but the concentrations were all below commercial RBCs for inhalation. Comparing the results of the three (3) indoor air samples with the one (1) outdoor air sample, indicates no significant difference in concentrations suggesting that indoor air quality is not being affected by any subsurface soil gas but rather other environmental factors (e.g., location in an urban environment). Although not detected, the reporting limit for naphthalene was above the RBC for *Commercial Indoor Air*.

The results of the April 3, 2024, indoor air sampling event identified multiple VOCs in all four (4) air samples; however, gasoline-range TPH was not detected. Benzene and xylenes were detected in soil gas sample A2; although, the concentrations were all below RBCs for *Commercial Indoor Air*. Although not detected, the reporting limit for naphthalene was above the RBC for *Commercial Indoor Air*.

The results of the March 18, 2025, indoor air sampling event identified multiple VOCs in all four (4) air samples; however, gasoline-range TPH was not detected. Naphthalene was detected in indoor air samples A3, B3, and C3 at respective concentrations of 1.81, 0.465 and 1.14 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), all above the Chronic RBC for *Commercial Indoor Air* at $0.36 \mu\text{g}/\text{m}^3$. Benzene and n-Hexane were detected in soil gas sample A3; although, the concentrations were below their respective RBCs for *Commercial Indoor Air*.

It should be noted that with the exception of naphthalene, all chemical constituents were detected in both indoor and outdoor samples, indicating that they are all anthropogenic and likely common in an urban environment. In addition, VOCs detected such as, acetone, ethanol, 2-propanol, methylene chloride, are likely present due to environmental factors and/or recent materials used to remodel the interior of the building.

Table 2: Soil Gas Sample Results

Analysis by EPA Method TO-15

All air sample results and Risk-Based Concentrations (RBCs) in micrograms per cubic meter (µg/m³)

Where **highlighted**, value exceeds RBC.

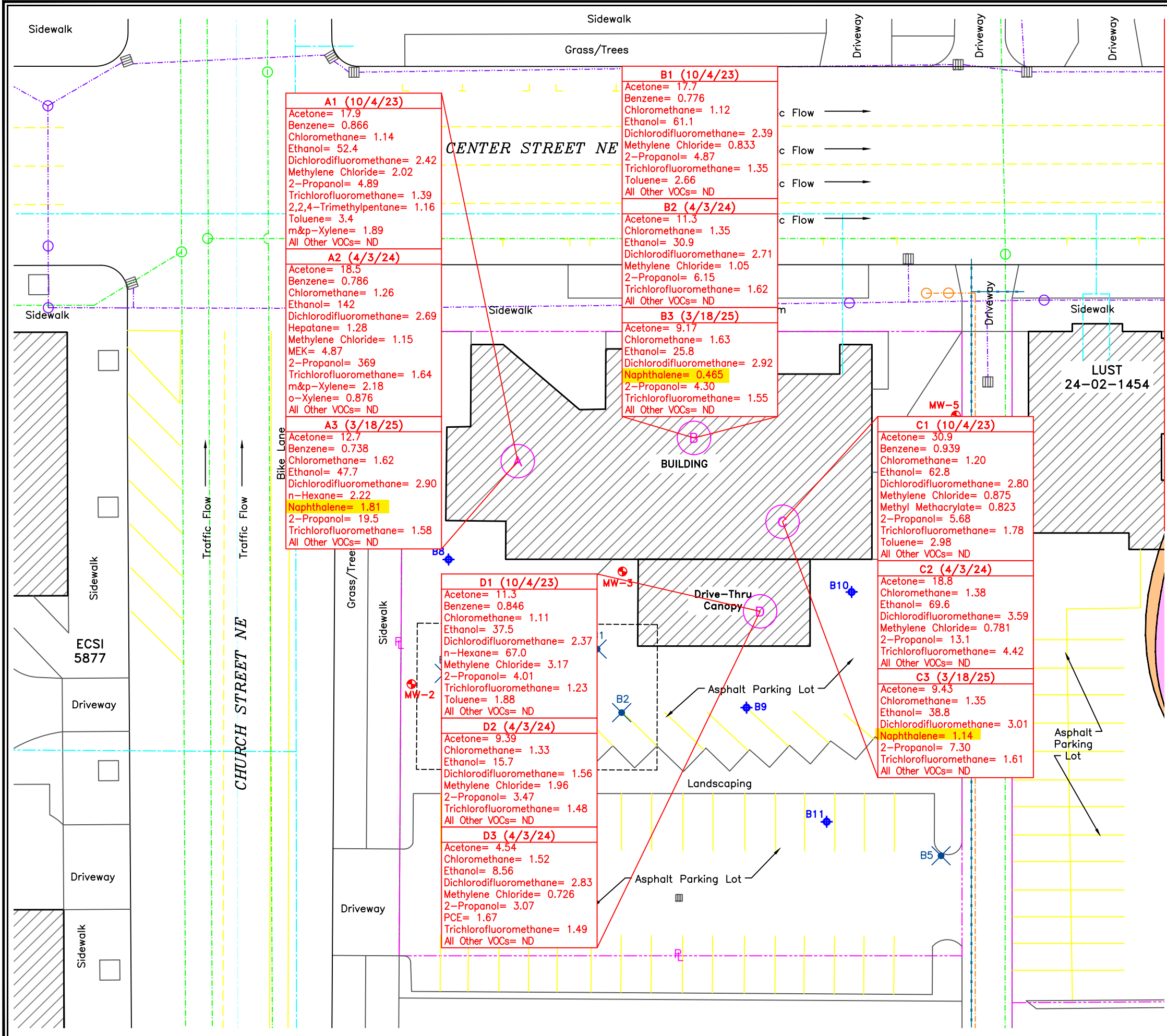
RBCs based on Occupational Vapor Intrusion into Buildings for Soil Gas (DEQ, May, 2018).

Only those compounds detected or previously detected during soil gas sampling are listed

* Where indicated, no RBCs are available, and instead EPA's Regional Screening Levels (RSLs) are provided.

** Site-specific RSL calculated for naphthalene using EPA's RSL Calculator (see Section 4.5)

Parameter	10/04/2023 Sampling Event				04/03/2024 Sampling Event				03/18/2025 Sampling Event				Commercial Indoor Air RBC
	A1 (01)	B1 (02)	C1 (03)	D1 (04)	A2	B2	C2	D2	A3	B3	C3	D3	
Low-Fraction TPH (Gasoline)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	ND (<826)	1,200
Acetone	17.9	17.7	30.9	11.3	18.5	11.3	18.8	9.39	12.7	9.17	9.43	4.54	140,000* (RSL)
Allyl chloride	ND (<0.64)	ND (<0.626)	ND (<0.626)	ND (<0.626)	ND (<0.626)	ND (<0.626)	ND (<0.626)	ND (<0.626)	ND (<0.626)	ND (<0.626)	ND (<0.626)	ND (<0.626)	2.0
Benzene	0.866	0.776	0.939	0.846	0.786	ND (<0.639)	ND (<0.639)	ND (<0.639)	0.738	ND (<0.639)	ND (<0.639)	ND (<0.639)	1.6
Chloromethane	1.14	1.12	1.20	1.11	1.26	1.35	1.38	1.33	1.62	1.63	1.35	1.52	390
Ethanol	52.4	61.1	62.8	37.5	142	30.9	69.6	15.7	47.7	25.8	38.8	8.56	No RBC/RSL
Ethylbenzene	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	4.9
Dichlorodifluoromethane	2.42	2.39	2.80	2.37	2.69	2.71	3.59	1.56	2.90	2.92	3.01	2.83	440
Heptane	ND (<0.818)	ND (<0.818)	ND (<0.818)	ND (<0.818)	1.28	ND (<0.818)	ND (<0.818)	ND (<0.818)	ND (<0.818)	ND (<0.818)	ND (<0.818)	ND (<0.818)	1,800
n-Hexane	ND (<2.22)	ND (<2.22)	ND (<2.22)	67.0	ND (<2.22)	ND (<2.22)	ND (<2.22)	ND (<2.22)	2.22	ND (<2.22)	ND (<2.22)	ND (<2.22)	3,100
Methylene Chloride	2.02	0.833	0.875	3.17	1.15	1.05	0.781	1.96	ND (<0.694)	ND (<0.694)	ND (<0.694)	0.726	1,200
Methyl Butyl Ketone	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	ND (<5.11)	130
Methyl methacrylate	ND (<0.819)	ND (<0.819)	0.823	ND (<0.819)	ND (<0.819)	ND (<0.819)	ND (<0.819)	ND (<0.819)	ND (<0.819)	ND (<0.819)	ND (<0.819)	ND (<0.819)	3,100
2-Butanone (MEK)	ND (<3.69)	ND (<3.69)	ND (<3.69)	ND (<3.69)	4.87	ND (<3.69)	ND (<3.69)	ND (<3.69)	ND (<3.69)	ND (<3.69)	ND (<3.69)	ND (<3.69)	22,000
Naphthalene	ND (< 3.3)	ND (< 3.3)	ND (< 3.3)	ND (< 3.3)	ND (< 3.3)	ND (< 3.3)	ND (< 3.3)	ND (< 3.30)	1.81	0.465	1.14	ND (<0.209)	0.36 / 4.34**
2-Propanol	4.89	4.87	5.68	4.01	369	6.15	13.1	3.47	19.5	4.30	7.30	3.07	880
Propene	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	ND (<2.15)	13,000
Tetrachloroethylene (PCE)	ND (<1.36)	ND (<1.36)	ND (<1.36)	ND (<1.36)	ND (<1.36)	ND (<1.36)	ND (<1.36)	ND (<1.36)	ND (<1.36)	ND (<1.36)	ND (<1.36)	1.67	47
Tetrahydrofuran	ND (<0.59)	ND (<0.59)	ND (<0.59)	ND (<0.59)	ND (<0.590)	ND (<0.590)	ND (<0.590)	ND (<0.590)	ND (<0.590)	ND (<0.590)	ND (<0.590)	ND (<0.590)	8,800
Trichlorofluoromethane	1.39	1.35	1.78	1.23	1.64	1.62	4.42	1.48	1.58	1.55	1.61	1.49	3,100
1,2,4-Trimethylbenzene	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	ND (<0.982)	260
2,2,4-Trimethylpentane	1.16	ND (<0.934)	ND (<0.934)	ND (<0.934)	ND (<0.934)	ND (<0.934)	ND (<0.934)	ND (<0.934)	ND (<0.934)	ND (<0.934)	ND (<0.934)	ND (<0.934)	No RBC/RSL
Toluene	3.4	2.66	2.98	1.88	ND (<1.88)	ND (<1.88)	ND (<1.88)	ND (<1.88)	ND (<1.88)	ND (<1.88)	ND (<1.88)	ND (<1.88)	22,000
m&p-Xylene	1.89	ND (<1.73)	ND (<1.73)	ND (<1.73)	2.18	ND (<1.73)	ND (<1.73)	ND (<1.73)	ND (<1.73)	ND (<1.73)	ND (<1.73)	ND (<1.73)	440
o-Xylene	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	0.876	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	ND (<0.867)	440
All Other VOCs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Various



LEGEND

A1 (10/4/23) Acetone= 17.9 Benzene= 0.866 Chloromethane= 1.14 Ethanol= 52.4 Dichlorodifluoromethane= 2.42 Methylene Chloride= 2.02 2-Propanol= 4.89 Trichlorofluoromethane= 1.39 2,2,4-Trimethylpentane= 1.16 Toluene= 3.4 m&p-Xylene= 1.89 All Other VOCs= ND

Air sample results per EPA Method TO-15;
Units in parts per billion (ppb);
ND= Not Detected

- MW-1** Monitoring Well Location and Identification Number (By BBA Env.)
- BB** Push Probe Location and Identification Number (By BBA Env.)
- B** Ambient Air Sample Location and Identification Number (Indoor or Exterior) (By BBA Env.)
- B5** Soil Boring Location and Identification Number (By Partner)
- Building
- Property Line
- Catch Basin

FIGURE # 4

**SOIL GAS SAMPLE RESULTS
COMMERCIAL PROPERTY
630 CENTER STREET NORTHEAST, SALEM, OREGON**

CHECKED: RANDALL BOESE

DRAWN: K.D.DESIGNS

DATE: 03/31/25 SCALE: 1"=30'

PROJECT CODE: TS101MEC.22UC

PORTLAND OFFICE
25195 SW Parkway Ave., #207
Wilsonville, OR
ph: 503.570.9484

EUGENE OFFICE
32986 Roberts Ct.
Coburg, OR
ph: 541.484.9484

www.BBAENV.COM

BB&A
ENVIRONMENTAL

4.5 Site Specific Regional Screening Level (RSL) for Naphthalene

Currently, the *Chronic RBC for Commercial Indoor Air* is $0.36 \mu\text{g}/\text{m}^3$, and is based on the EPA's Regional Screening Level, which is based on a worker scenario of 25 years, 250 days per year, five (5) days per week (excluding a two [2] week vacation), and eight (8) hours per day.

The building is owned by Travel Salem, but the basement (location of the indoor air sampling) is leased to outside commercial tenants. According to Jennifer Miller, manager for Travel Salem, the current tenants have occupied the basement offices since February 2024 with a five (5) year lease. Ms. Miller stated that generally two (2) employees (but as many as six [6]) access this space approximately 10 hours per week.

To assess risk to the employees in the basement, with respect to the recent indoor air sampling results, the EPA's site-specific Regional Screening Level (RSL) Calculator was used to develop a site-specific RSL for naphthalene. Based on tenant information obtained from the operations manager for Travel Salem, Ms. Jennifer Miller, a site-specific RSL was calculated using a five (5) year lease, and 16 hours (two [2] days) of occupancy per week. Changing the 25 year exposure duration to five (5) years, and the 250 days per year default value to 104 (representing two [2] days per week), the resulting EPA RSL Calculator identified a Commercial Indoor Air RSL of $4.34 \mu\text{g}/\text{m}^3$ (see **Appendix B** for Site-Specific Calculations). To date, all detected naphthalene concentrations and reporting limits have been below this site-specific RSL.

5.0 SUMMARY AND CONCLUSIONS

Based on the findings of this investigation, and review of historical investigation documentation, the following summary and conclusions are provided:

- The *subject property* is located at 630 Center Street Northeast in Salem, Oregon. Marion County identifies the *subject property* as tax lot 5500 of map number 073W22DD, approximately 0.76 acres in size, located at the southeast corner of intersecting Center Street NE and Church Street NE. The *subject property* is currently developed with one (1) two-story commercial building (with a full basement), approximately 19,540 square feet in size. The building was previously occupied by banking tenants utilized for commercial purposes, but is currently occupied by *Travel Salem*. The *subject property* and surrounding area is zoned Central Business District (CB).
- According to the previous Phase I ESA, the *subject property* was redeveloped with structures associated with a gasoline service station equipped with five (5) USTs. The USTs were reportedly removed sometime prior to 1978; however, no subsurface investigations or closure records are available. The current-day commercial structure was developed in 1978 and has been occupied by numerous commercial offices and banking tenants to current times. The basement is occupied by two (2) tenants on a limited basis – generally only two (2) to three (3) days per week.
- In 2021, a subsurface investigation advanced six (6) soil and/or groundwater borings and four (4) sub-slab probes. Analytical results confirmed gasoline-range TPH were detected in two (2) soil samples at concentrations exceeding the *Urban Residential* RBC for *Vapor Intrusion into Buildings* pathway, but not the occupational RBC. Additionally, ethylbenzene was detected in two soil gas samples at concentrations exceeding the urban residential RBC, but not the occupational RBC. None of the groundwater samples analyzed had detected gasoline-related VOCs at concentrations exceeding applicable RBC exposure pathways.
- In November 2022 and May 2023, four (4) soil gas samples contained detectable concentrations of various gasoline related VOCs and gasoline-range TPH. All detected contaminants were detected at concentrations below applicable Occupational RBCs. At the request of the DEQ, indoor air sampling was conducted on October 4, 2023, and April 3, 2024, consisting of three (3) indoor air samples and one (1) outdoor air sample. None of the soil gas samples analyzed had detected concentrations of contaminants of interest (i.e., gasoline related VOCs) exceeding applicable RBC exposure pathways. Although not detected, the reporting limit for naphthalene was above the RBC for *Commercial Indoor Air*.

- In March 2025, at the request of the DEQ, BB&A conducted a third indoor air sampling event, again consisting of three (3) indoor air samples and one (1) outdoor air sample. This sampling event identified multiple VOCs in all four (4) air samples; however, gasoline-range TPH was not detected. Naphthalene was detected in indoor air samples A3, B3, and C3 at respective concentrations of 1.81, 0.465 and 1.14 $\mu\text{g}/\text{m}^3$, all above the *Chronic RBC for Commercial Indoor Air* at 0.36 $\mu\text{g}/\text{m}^3$; yet below the site-specific RSL of 4.34 $\mu\text{g}/\text{m}^3$ developed for the site based on tenant exposure frequency and duration. To date, all detected naphthalene concentrations and reporting limits have been below this site-specific RSL.

All other detected VOCs were at concentrations below applicable *Commercial Indoor Air* RBCs.

6.0 DISCUSSION/RECOMMENDATIONS

A release of gasoline-related contamination has occurred at the site associated with the historical operation of former USTs. Based upon the results of several investigative phases, the release appears to be stable, and the area of residual impact primarily located within the property boundary. The adsorbed soil plume, comprising gasoline- and diesel-range TPH and various gasoline related VOCs were detected in multiple soil samples across the site. However, no contaminants were detected at concentrations exceeding RBCs for applicable exposure pathways. The highest contaminant concentrations in soil were detected in soil from the borings for monitoring well MW-3 and temporary boring B-10. The dissolved plume for gasoline-range TPH and associated constituents is also centered on monitoring well MW-3 extending down gradient to the western property line as defined by monitoring wells MW-2 and MW-4.

Residual impact to soil and groundwater contaminants has volatilized and is contributing to gasoline-range TPH and associated constituents in soil gas beneath the building. Based on the results of the three (3) indoor air sampling events, naphthalene appears to be the only compound in indoor air above *Chronic RBCs for Commercial Indoor Air*, yet these concentrations are below the site-specific RSL calculated based on tenant exposure frequency and duration.

BB&A recommends regulatory closure of the site and requests written determination that no further action (NFA) is required regarding further investigation and/or remediation of the site. With this NFA it is recommended that a Contaminant Media Management Plan (CMMP) be prepared to outline procedures to manage residual petroleum contamination should it be encountered in association with future construction projects, and to protect future excavation workers from exposure.

7.0 LIMITATIONS

The professional services of BB&A have been rendered using the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental consulting firms practicing in this or similar locations. No other warranty, expressed or implied, is made as to the professional advice included in this report. Indoor air samples attempted to identify areas most likely to have been impacted by releases and spills of petroleum products (i.e., gasoline). The results of the analyses only indicate the presence or absence of petroleum hydrocarbons and hazardous constituents in those discrete sample locations. Analytical data from the laboratory samples should only be considered as an indicator of site conditions and not a guarantee of the absence of petroleum hydrocarbons and hazardous constituents in areas not sampled.

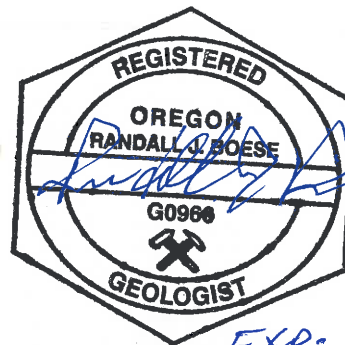
Should you have any questions regarding the information presented in this report, please do not hesitate to contact the undersigned at (503) 570-9484.

Sincerely,

BB&A Environmental



Stephen M. Omo
Project Manager



Randall J. Boese, RG/LHG
Senior Hydrogeologist

APPENDIX A

*Indoor Air Laboratory Analytical Reports
(Pace)*

March 31, 2025

Revised Report

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

BB&A Environmental - Wilsonville, OR

Sample Delivery Group: L1838336

Samples Received: 03/20/2025

Project Number:

Description: Travel Salem

Report To: Stephen Omo
25195 SW Parkway Ave.
Ste. 207
Wilsonville, OR 97070

Entire Report Reviewed By:



Jared Starkey
Project Manager

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

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

ACCOUNT:

BB&A Environmental - Wilsonville, OR

PROJECT:

SDG:

L1838336

DATE/TIME:

03/31/25 16:37

PAGE:

1 of 20

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Cn: Case Narrative	4	4 Cn
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SAMPLE SUMMARY

TS01-INDOOR-A3 L1838336-01 Air

Collected by
Collected date/time
Received date/time

03/18/25 17:00
03/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2474407	1	03/23/25 00:15	03/23/25 00:15	NIH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15-SIM	WG2474397	1	03/22/25 11:17	03/22/25 11:17	DBB	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TS01-INDOOR-B3 L1838336-02 Air

Collected by
Collected date/time
Received date/time

03/19/25 09:20
03/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2474407	1	03/23/25 00:57	03/23/25 00:57	NIH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15-SIM	WG2474397	1	03/22/25 11:58	03/22/25 11:58	DBB	Mt. Juliet, TN

TS01-INDOOR-C3 L1838336-03 Air

Collected by
Collected date/time
Received date/time

03/18/25 16:40
03/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2474407	1	03/23/25 01:43	03/23/25 01:43	NIH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15-SIM	WG2474397	1	03/22/25 12:38	03/22/25 12:38	DBB	Mt. Juliet, TN

TS01-OUTDOOR-D3 L1838336-04 Air

Collected by
Collected date/time
Received date/time

03/18/25 17:04
03/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2474407	1	03/23/25 02:33	03/23/25 02:33	NIH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15-SIM	WG2474397	1	03/22/25 13:21	03/22/25 13:21	DBB	Mt. Juliet, TN

CASE NARRATIVE

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



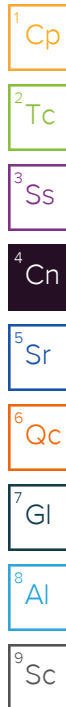
Jared Starkey
Project Manager

Report Revision History

Level II Report - Version 1: 03/25/25 10:38

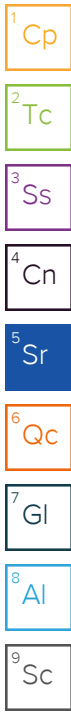
Project Narrative

ID Correction



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	5.33	12.7		1	WG2474407
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2474407
Benzene	71-43-2	78.10	0.200	0.639	0.231	0.738		1	WG2474407
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2474407
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2474407
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2474407
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2474407
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2474407
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2474407
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2474407
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2474407
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2474407
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2474407
Chloromethane	74-87-3	50.50	0.200	0.413	0.784	1.62		1	WG2474407
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2474407
Cyclohexane	110-82-7	84.20	0.200	0.689	0.543	1.87		1	WG2474407
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2474407
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2474407
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2474407
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2474407
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2474407
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2474407
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2474407
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2474407
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2474407
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2474407
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2474407
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2474407
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2474407
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2474407
Ethanol	64-17-5	46.10	2.50	4.71	25.3	47.7		1	WG2474407
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2474407
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2474407
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.281	1.58		1	WG2474407
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.587	2.90		1	WG2474407
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2474407
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2474407
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2474407
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2474407
n-Hexane	110-54-3	86.20	0.630	2.22	0.631	2.22		1	WG2474407
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2474407
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2474407
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2474407
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2474407
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2474407
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2474407
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2474407
2-Propanol	67-63-0	60.10	1.25	3.07	7.95	19.5		1	WG2474407
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2474407
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2474407
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2474407
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2474407
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2474407
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2474407
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2474407
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2474407



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2474407
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2474407
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2474407
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2474407
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2474407
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2474407
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2474407
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2474407
m&p-Xylene		106	0.400	1.73	ND	ND		1	WG2474407
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2474407
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2474407
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2474407

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

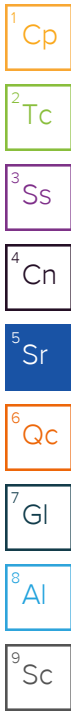
9 Sc

Volatile Organic Compounds (MS) by Method TO-15-SIM

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Naphthalene	91-20-3	128	0.0400	0.209	0.346	1.81		1	WG2474397
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2474397

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.86	9.17		1	WG2474407
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2474407
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2474407
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2474407
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2474407
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2474407
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2474407
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2474407
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2474407
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2474407
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2474407
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2474407
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2474407
Chloromethane	74-87-3	50.50	0.200	0.413	0.789	1.63		1	WG2474407
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2474407
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2474407
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2474407
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2474407
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2474407
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2474407
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2474407
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2474407
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2474407
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2474407
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2474407
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2474407
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2474407
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2474407
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2474407
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2474407
Ethanol	64-17-5	46.10	2.50	4.71	13.7	25.8		1	WG2474407
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2474407
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2474407
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.275	1.55		1	WG2474407
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.591	2.92		1	WG2474407
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2474407
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2474407
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2474407
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2474407
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2474407
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2474407
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2474407
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2474407
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2474407
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2474407
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2474407
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2474407
2-Propanol	67-63-0	60.10	1.25	3.07	1.75	4.30		1	WG2474407
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2474407
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2474407
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2474407
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2474407
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2474407
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2474407
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2474407
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2474407



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2474407
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2474407
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2474407
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2474407
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2474407
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2474407
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2474407
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2474407
m&p-Xylene		106	0.400	1.73	ND	ND		1	WG2474407
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2474407
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2474407
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG2474407

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15-SIM

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Naphthalene	91-20-3	128	0.0400	0.209	0.0888	0.465		1	WG2474397
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG2474397

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.97	9.43		1	WG2474407
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2474407
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2474407
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2474407
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2474407
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2474407
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2474407
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2474407
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2474407
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2474407
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2474407
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2474407
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2474407
Chloromethane	74-87-3	50.50	0.200	0.413	0.655	1.35		1	WG2474407
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2474407
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2474407
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2474407
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2474407
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2474407
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2474407
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2474407
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2474407
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2474407
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2474407
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2474407
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2474407
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2474407
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2474407
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2474407
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2474407
Ethanol	64-17-5	46.10	2.50	4.71	20.6	38.8		1	WG2474407
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2474407
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2474407
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.287	1.61		1	WG2474407
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.608	3.01		1	WG2474407
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2474407
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2474407
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2474407
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2474407
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2474407
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2474407
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG2474407
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2474407
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2474407
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2474407
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2474407
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2474407
2-Propanol	67-63-0	60.10	1.25	3.07	2.97	7.30		1	WG2474407
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2474407
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2474407
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2474407
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2474407
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2474407
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2474407
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2474407
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2474407

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

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2474407
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2474407
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2474407
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2474407
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2474407
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2474407
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2474407
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2474407
m&p-Xylene		106	0.400	1.73	ND	ND		1	WG2474407
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2474407
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2474407
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2474407

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15-SIM

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Naphthalene	91-20-3	128	0.0400	0.209	0.218	1.14		1	WG2474397
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.6				WG2474397

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	1.91	4.54		1	WG2474407
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2474407
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG2474407
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2474407
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2474407
Bromoform	75-25-2	253	0.630	6.52	ND	ND		1	WG2474407
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2474407
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2474407
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		1	WG2474407
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2474407
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2474407
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2474407
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2474407
Chloromethane	74-87-3	50.50	0.200	0.413	0.736	1.52		1	WG2474407
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2474407
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2474407
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2474407
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2474407
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2474407
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2474407
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2474407
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2474407
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2474407
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2474407
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2474407
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2474407
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2474407
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2474407
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2474407
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2474407
Ethanol	64-17-5	46.10	2.50	4.71	4.54	8.56		1	WG2474407
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG2474407
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG2474407
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.265	1.49		1	WG2474407
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.573	2.83		1	WG2474407
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2474407
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2474407
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG2474407
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2474407
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2474407
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG2474407
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.209	0.726		1	WG2474407
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2474407
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2474407
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2474407
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2474407
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2474407
2-Propanol	67-63-0	60.10	1.25	3.07	1.25	3.07		1	WG2474407
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2474407
Styrene	100-42-5	104	0.400	1.70	ND	ND		1	WG2474407
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2474407
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.246	1.67		1	WG2474407
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2474407
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG2474407
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2474407
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2474407

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

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2474407
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2474407
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG2474407
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG2474407
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2474407
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2474407
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2474407
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2474407
m&p-Xylene		106	0.400	1.73	ND	ND		1	WG2474407
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG2474407
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG2474407
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2474407

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

Volatile Organic Compounds (MS) by Method TO-15-SIM

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Naphthalene	91-20-3	128	0.0400	0.209	ND	ND		1	WG2474397
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.9				WG2474397

Method Blank (MB)

(MB) R4190148-3 03/22/25 08:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.520	1.25
Allyl chloride	U		0.186	0.200
Benzene	U		0.110	0.200
Benzyl Chloride	U		0.0888	0.200
Bromodichloromethane	U		0.0695	0.200
Bromoform	U		0.0755	0.630
Bromomethane	U		0.0938	0.200
1,3-Butadiene	U		0.158	2.00
Carbon disulfide	U		0.160	0.400
Carbon tetrachloride	U		0.0746	0.200
Chlorobenzene	U		0.118	0.200
Chloroethane	U		0.110	0.200
Chloroform	U		0.104	0.200
Chloromethane	U		0.110	0.200
2-Chlorotoluene	U		0.0787	0.200
Cyclohexane	U		0.170	0.200
Dibromochloromethane	U		0.0696	0.200
1,2-Dibromoethane	U		0.0690	0.200
1,2-Dichlorobenzene	U		0.0734	0.200
1,3-Dichlorobenzene	U		0.0753	0.200
1,4-Dichlorobenzene	U		0.0768	0.200
1,2-Dichloroethane	U		0.0730	0.200
1,1-Dichloroethane	U		0.0710	0.200
1,1-Dichloroethene	U		0.0747	0.200
cis-1,2-Dichloroethene	U		0.0796	0.200
trans-1,2-Dichloroethene	U		0.0735	0.200
1,2-Dichloropropane	U		0.0752	0.200
cis-1,3-Dichloropropene	U		0.0743	0.200
trans-1,3-Dichloropropene	U		0.0795	0.200
1,4-Dioxane	U		0.164	0.630
Ethanol	U		2.37	2.50
Ethylbenzene	U		0.0778	0.200
4-Ethyltoluene	U		0.0887	0.200
Trichlorofluoromethane	U		0.0771	0.200
Dichlorodifluoromethane	U		0.0806	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0751	0.200
1,2-Dichlorotetrafluoroethane	U		0.0756	0.200
Heptane	U		0.114	0.200
Hexachloro-1,3-butadiene	U		0.0800	0.630
n-Hexane	U		0.143	0.630

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4190148-3 03/22/25 08:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Isopropylbenzene	U		0.0722	0.200
Methylene Chloride	U		0.169	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.116	1.25
4-Methyl-2-pentanone (MIBK)	U		0.106	1.25
Methyl methacrylate	U		0.169	0.200
MTBE	U		0.0813	0.200
2-Propanol	U		0.680	1.25
Propene	U		0.214	1.25
Styrene	U		0.0802	0.400
1,1,2,2-Tetrachloroethane	U		0.0695	0.200
Tetrachloroethylene	U		0.111	0.200
Tetrahydrofuran	U		0.164	0.200
Toluene	U		0.130	0.500
1,2,4-Trichlorobenzene	U		0.462	0.630
1,1,1-Trichloroethane	U		0.0718	0.200
1,1,2-Trichloroethane	U		0.0683	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0927	0.200
1,3,5-Trimethylbenzene	U		0.0853	0.200
2,2,4-Trimethylpentane	U		0.0898	0.200
Vinyl chloride	U		0.0826	0.200
Vinyl Bromide	U		0.0749	0.200
Vinyl acetate	U		0.0968	0.630
m&p-Xylene	U		0.174	0.400
o-Xylene	U		0.0887	0.200
TPH (GC/MS) Low Fraction	U		68.3	200
(S) 1,4-Bromofluorobenzene	94.3			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4190148-1 03/22/25 07:13 • (LCSD) R4190148-2 03/22/25 07:59

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.99	3.97	106	106	70.0-130			0.503	25
Allyl chloride	3.75	4.15	4.10	111	109	70.0-130			1.21	25
Benzene	3.75	4.21	4.32	112	115	70.0-130			2.58	25
Benzyl Chloride	3.75	4.34	4.47	116	119	70.0-152			2.95	25
Bromodichloromethane	3.75	4.29	4.21	114	112	70.0-130			1.88	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4190148-1 03/22/25 07:13 • (LCSD) R4190148-2 03/22/25 07:59

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	3.75	4.74	4.80	126	128	70.0-130			1.26	25
Bromomethane	3.75	4.11	4.10	110	109	70.0-130			0.244	25
1,3-Butadiene	3.75	3.50	3.23	93.3	86.1	70.0-130			8.02	25
Carbon disulfide	7.50	8.60	8.45	115	113	70.0-130			1.76	25
Carbon tetrachloride	3.75	4.28	4.33	114	115	70.0-130			1.16	25
Chlorobenzene	3.75	4.25	4.23	113	113	70.0-130			0.472	25
Chloroethane	3.75	4.23	4.41	113	118	70.0-130			4.17	25
Chloroform	3.75	4.23	4.12	113	110	70.0-130			2.63	25
Chloromethane	3.75	4.13	4.14	110	110	70.0-130			0.242	25
2-Chlorotoluene	3.75	4.20	4.40	112	117	70.0-130			4.65	25
Cyclohexane	3.75	4.08	4.01	109	107	70.0-130			1.73	25
Dibromochloromethane	3.75	4.24	4.35	113	116	70.0-130			2.56	25
1,2-Dibromoethane	3.75	4.17	4.31	111	115	70.0-130			3.30	25
1,2-Dichlorobenzene	3.75	4.28	4.48	114	119	70.0-130			4.57	25
1,3-Dichlorobenzene	3.75	4.44	4.42	118	118	70.0-130			0.451	25
1,4-Dichlorobenzene	3.75	4.38	4.46	117	119	70.0-130			1.81	25
1,2-Dichloroethane	3.75	4.38	4.37	117	117	70.0-130			0.229	25
1,1-Dichloroethane	3.75	4.40	4.29	117	114	70.0-130			2.53	25
1,1-Dichloroethene	3.75	4.18	4.13	111	110	70.0-130			1.20	25
cis-1,2-Dichloroethene	3.75	4.43	4.23	118	113	70.0-130			4.62	25
trans-1,2-Dichloroethene	3.75	4.15	4.13	111	110	70.0-130			0.483	25
1,2-Dichloropropane	3.75	4.19	4.30	112	115	70.0-130			2.59	25
cis-1,3-Dichloropropene	3.75	4.07	4.09	109	109	70.0-130			0.490	25
trans-1,3-Dichloropropene	3.75	4.23	4.28	113	114	70.0-130			1.18	25
1,4-Dioxane	3.75	4.18	4.20	111	112	70.0-140			0.477	25
Ethanol	3.75	3.96	3.97	106	106	55.0-148			0.252	25
Ethylbenzene	3.75	4.16	4.20	111	112	70.0-130			0.957	25
4-Ethyltoluene	3.75	4.11	4.31	110	115	70.0-130			4.75	25
Trichlorofluoromethane	3.75	4.46	3.92	119	105	70.0-130			12.9	25
Dichlorodifluoromethane	3.75	4.20	4.25	112	113	64.0-139			1.18	25
1,1,2-Trichlorotrifluoroethane	3.75	4.20	4.22	112	113	70.0-130			0.475	25
1,2-Dichlorotetrafluoroethane	3.75	4.28	4.19	114	112	70.0-130			2.13	25
Heptane	3.75	4.13	4.04	110	108	70.0-130			2.20	25
Hexachloro-1,3-butadiene	3.75	4.28	4.31	114	115	70.0-151			0.698	25
n-Hexane	3.75	4.13	4.05	110	108	70.0-130			1.96	25
Isopropylbenzene	3.75	4.02	4.10	107	109	70.0-130			1.97	25
Methylene Chloride	3.75	4.18	4.18	111	111	70.0-130			0.000	25
Methyl Butyl Ketone	3.75	3.81	3.86	102	103	70.0-149			1.30	25
2-Butanone (MEK)	3.75	4.11	4.22	110	113	70.0-130			2.64	25
4-Methyl-2-pentanone (MIBK)	3.75	3.89	4.02	104	107	70.0-139			3.29	25

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4190148-1 03/22/25 07:13 • (LCSD) R4190148-2 03/22/25 07:59

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Methyl methacrylate	3.75	4.05	4.01	108	107	70.0-130			0.993	25
MTBE	3.75	3.84	3.81	102	102	70.0-130			0.784	25
2-Propanol	3.75	3.87	3.86	103	103	70.0-139			0.259	25
Propene	3.75	3.89	3.92	104	105	64.0-144			0.768	25
Styrene	7.50	8.31	8.54	111	114	70.0-130			2.73	25
1,1,2,2-Tetrachloroethane	3.75	4.38	4.38	117	117	70.0-130			0.000	25
Tetrachloroethylene	3.75	4.41	4.29	118	114	70.0-130			2.76	25
Tetrahydrofuran	3.75	4.13	4.20	110	112	70.0-137			1.68	25
Toluene	3.75	4.17	4.21	111	112	70.0-130			0.955	25
1,2,4-Trichlorobenzene	3.75	4.54	4.57	121	122	70.0-160			0.659	25
1,1,1-Trichloroethane	3.75	4.10	4.22	109	113	70.0-130			2.88	25
1,1,2-Trichloroethane	3.75	4.32	4.21	115	112	70.0-130			2.58	25
Trichloroethylene	3.75	4.25	4.19	113	112	70.0-130			1.42	25
1,2,4-Trimethylbenzene	3.75	4.24	4.40	113	117	70.0-130			3.70	25
1,3,5-Trimethylbenzene	3.75	4.45	4.36	119	116	70.0-130			2.04	25
2,2,4-Trimethylpentane	3.75	3.98	3.91	106	104	70.0-130			1.77	25
Vinyl chloride	3.75	3.70	3.51	98.7	93.6	70.0-130			5.27	25
Vinyl Bromide	3.75	4.34	3.82	116	102	70.0-130			12.7	25
Vinyl acetate	3.75	3.93	4.08	105	109	70.0-130			3.75	25
m&p-Xylene	7.50	8.26	8.28	110	110	70.0-130			0.242	25
o-Xylene	3.75	4.05	4.15	108	111	70.0-130			2.44	25
TPH (GC/MS) Low Fraction	188	194	191	103	102	70.0-130			1.56	25
<i>(S) 1,4-Bromofluorobenzene</i>				99.0	100	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4189834-3 03/22/25 09:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Naphthalene	U		0.0248	0.0400
<i>(S) 1,4-Bromofluorobenzene</i>	97.0			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4189834-1 03/22/25 07:46 • (LCSD) R4189834-2 03/22/25 08:27

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Naphthalene	0.500	0.647	0.614	129	123	70.0-130			5.23	25
<i>(S) 1,4-Bromofluorobenzene</i>				101	102	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

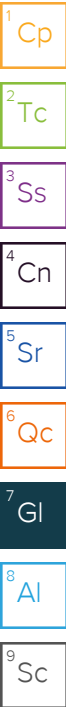
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

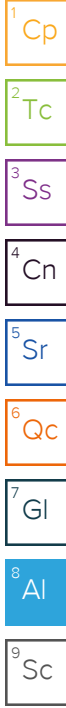
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

M061



Scan QR code for instructions

Company Name: **BB&A Environmental - Wilsonville, OR**

Street Address: **25195 SW Parkway Ave.**

City, State Zip:

Customer Project #: **TRAVEL SALEM**

Site Collection Info/Facility ID (as applicable): **BBAENVWOR-NAPTHA**

Time Zone Collected: [] AK [x] PT [] MT [] CT [] ET

Contact/Report To: **Stephen Omo**

Phone #: **503-570-9484**

E-Mail: **smomo@bbaenv.com**

Cc E-Mail:

Invoice to:

Invoice E-Mail:

Purchase Order # (if applicable):

Quote #:

State origin of sample(s): **OREGON**

Data Deliverables:

[] Level II [] Level III [] Level IV

[] EQUIS

[] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other

Date Results Requested:

Permit # as applicable:

Units for Reporting: ug/m³ PPBV mg/m³ PPAIV

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection		End Collection		Start Pressure / Vacuum (in Hg)	End Pressure / Vacuum (in Hg)	Duration (minutes)	Flow Rate (m ³ /min or L/min)	Total Volume Sampled (m ³ or L)	TO-15 Full Scan+Gas Sum	TO-15SIM (Nap.) Summa	
				Date	Time	Date	Time								
TS01-INDOOR-A3	I	11158	22658	3.18.25	9:04	3.18.25	17:00	26"	6.5"				✓	✓	61
TS01-INDOOR-B3	I	11103	2927A	3.18.25	9:00	3.19.25	9:20	29"	10"				✓	✓	62
TS01-INDOOR-C3	I	10880	20074	3.18.25	9:02	3.18.25	16:40	29.8"	5"				✓	✓	67
TS01-OUTDOOR-D3	A	5834	10694	3.18.25	9:04	3.18.25	17:04	30"	14"				✓	✓	67

Proj. Manager: **546 - Jared Starkey**

AcctNum / Client ID: **BBAENVWOR**

Table #:

Profile / Template: **T269944**

Prelog / Bottle Ord. ID: **P1138266**

L1838336
Sample Comment

Sample Receipt Checklist

COC Seal Present/Intact: Y N NP Airs: 4

COC Signed/Accurate: X N Size: 1L 6L 1.4L

Bottles arrive intact: X N

Correct bottles used: Y N Targe Color: G W P B

Unused: _____

Customer Remarks / Special Conditions / Possible Hazards:

Collected By: _____ Printed Name: _____ Signature: _____

Additional Instructions from Pace®: _____

Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C): AM Corrected Temp. (°C): _____

Relinquished by/Company: (Signature) [Signature] Date/Time: 3.19.25 11:30

Received by/Company: (Signature) _____ Date/Time: _____

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

Received by/Company: (Signature) _____ Date/Time: _____

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

Received by/Company: (Signature) [Signature] Date/Time: 3/20 09:30

Tracking Number: 7191 2462

Delivered by: In- Person Courier

FedEX UPS Other

Page: _____ of: _____

APPENDIX B

EPA Site-Specific RSL Calculations – Naphthalene

Site-specific Indoor Worker Air Inputs

Variable	Indoor Worker Air Default Value	Site-Specific Value
AT _{int} (averaging time - indoor worker)	365	365
ED _{int} (exposure duration - indoor worker) year	25	5
EF _{int} (exposure frequency - indoor worker) day/year	250	104
ET _{int} (exposure time - indoor worker) hour	8	8
THQ (target hazard quotient) unitless	0.1	0.1
LT (lifetime) year	70	70
TR (target cancer risk) unitless	1.0E-06	1.0E-06

Site-specific

Indoor Worker Risk-Based Regional Screening Levels (RSL) for Air

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; T = ATSDR DRAFT; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Subchronic toxicity values will be used where available. RfC and RfD references will be followed by either 'Chronic' or 'Subchronic' to indicate which toxicity value was used.

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	IUR (ug/m ³) ⁻¹	IUR Ref	RfC (mg/m ³)	RfC Ref	Carcinogenic SL	Noncarcinogenic SL	Screening Level
									TR=1E-06 (ug/m ³)	THI=0.1 (ug or fibers/m ³)	(ug or fibers/m ³)
Naphthalene	91-20-3	No	Yes	Organics	3.40E-05	U	-		4.34E+00	-	4.34E+00 ca