Final Phase II Environmental Site Assessment

Revision 1

Petroleum County Courthouse
302 East Main Street
Winnett, Montana

January 5, 2023

PREPARED FOR

U.S. Environmental Protection Agency
Region 8
Brownfields and Redevelopment Branch
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TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) Region 8 Land, Chemicals, and Redevelopment Division tasked Tetra Tech, Inc. (Tetra Tech) Region 8 Superfund Technical Assessment and Response Team (START) V to conduct a Targeted Brownfields Assessment (TBA) Phase II Environmental Site Assessment (ESA) at 302 East Main Street in Winnett, Petroleum County, Montana (subject property). The Phase II ESA was conducted under the EPA Region 8 TBA program.

1.1 SITE DESCRIPTION AND BACKGROUND

The subject property is located at 302 East Main Street in Winnett, Petroleum County, Montana. The 0.241-acre subject property is developed with an approximately 15,270-square-foot, two-story (including basement) commercial structure which houses a courthouse on the first floor and a mostly vacant basement and second floor. The subject property also hosts a sheet metal shed used for storage. The shed is directly north of the main structure. Future uses for this property include renovating the second level of the courthouse into residential housing.

The subject property is reported to have been constructed in 1917 as a commercial structure that housed a bank, offices, a printing company, and hardware store until 1928 when it was leased to the county and converted to a courthouse. The sheet metal shed was constructed in 2005 and is used primarily for storage (Tetra Tech 2022a).

In 2022, START V conducted a Phase I ESA on the subject property (Tetra Tech 2022a). The Phase I ESA identified the following recognized environmental conditions (REC), vapor encroachment condition (VEC), de minimis conditions, and business environmental risks (BER) for the subject property:

- Information obtained from the EDR database indicated the subject property housed a printing company. Printing companies are known to use cleaning solvents, chemicals, and inks. Based on the presence or likely presence of hazardous substances at the subject property, the historical use of the subject property poses a REC to the subject property.

- The facility at 117 East Main Street (B&D Service) is adjacent to the subject property and was identified in the EDR report in the leaking underground storage tank database. The facility operated as filling station as early as 1922. Based on the proximity of the facility to the subject property, this facility poses a REC to the subject property. In addition, the potential presence of petroleum products impacting the subject property poses a VEC to the subject property.

- Hoyle Garage was observed to be present directly to the northwest of the subject property on the historical 1922 and 1929 Sanborn Maps (EDR 2022b). Based on the lack of information regarding the site, the proximity of the facility to the subject property, the assumed petroleum, solvent, and degreaser products likely present at the subject property is a result of a release of petroleum, solvent, and degreaser products at this adjoining property. This site poses a REC to the subject property.

- Given the age of the subject property building, the subject property may contain asbestos-containing material (ACM). The potential presence of ACM is considered a BER.
- Given the age of the subject property building, the subject property may contain lead-based paint (LBP). The potential presence of LBP is considered a BER.
- Winnett, Montana is identified by EPA as Radon Zone 2, in which counties have predicted indoor radon screening levels between 2 and 4 picocuries per liter The potential presence of radon above 4 picocuries per liter (pCi/L) is considered a BER. The potential presence of radon above 4 pCi/L is considered a BER.

1.2 SCOPE OF WORK

Based on the findings and conclusions of the October 2022 Phase I ESA, START V was tasked to conduct a Phase II ESA. The scope of the Phase II ESA as defined by EPA was to investigate the presence and concentrations of potential contamination related to historical use of the subject property and conduct a hazardous materials survey. START V submitted a site-specific Sampling and Analysis Plan (SAP) in support of assessment activities to EPA on August 18, 2022 (Tetra Tech 2022b). EPA approved the SAP on August 23, 2022, prior to the sampling event at the subject property. Field activities accorded with the SAP, except where noted in Section 2.0.

The Phase II ESA included the following activities at the subject property on August 23 and 24, 2022, and September 13, 2022:

- Conducted a hazardous materials survey that included collecting samples of suspected ACM and screening for LBP.
- Collected three indoor air samples to be analyzed for volatile organic compounds (VOC).
- Installed three temporary sub-slab soil gas probes and collection of three soil gas samples to be analyzed for VOCs.

The START Project Manager for the TBA was Amanda Dones. The field team included Jimi Gordon, a Montana licensed asbestos inspector; Chandler Broome, a certified lead-based paint inspector; Matt LaFemina; and Kit Persson.

START V prepared this report in accordance with generally accepted industry practices and procedures. This report does not cover or comment on structural areas not assessed either visibly or by sample collection. The data evaluation and assessment stated herein constitute a professional opinion; no other warranty is expressed or implied. Section 2.0 specifies assumptions and deviations regarding the survey at the subject property. Prior to any renovations or demolition of the subject property building, further survey work may be needed to comply with all local, state, and federal requirements regulating ACM, LBP, or radon.

START V provided these services consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions. This statement is in lieu of other statements either expressed or implied. The scope of services performed in execution of this evaluation may not be

appropriate to satisfy the needs of other users, and use or reuse of this document, the findings, conclusions, or recommendations is at the risk of said user. This survey report does not warrant against future operations or conditions that may not be consistent with its recommendations. Moreover, because of some limitations on destructive sampling during the survey, completion of the assessment does not guarantee identification of all ACM. Hazardous materials may be present in voids of walls, ceilings, or other concealed areas not identified or inspected by the project team.

Section 2.0 specifies field and analytical protocols and conveys assumptions and deviations. Section 3.0 presents analytical results. Section 4.0 presents conclusions and offers recommendations based on assessment findings. Section 5.0 lists sources referenced during development of this report.

2.0 SAMPLING

START V conducted a hazardous materials survey on the subject property in August and September 2022. The hazardous materials survey consisted of an ACM survey and an LBP screening.

2.1 HAZARDOUS MATERIALS SURVEY

2.1.1 Asbestos-Containing Material Sampling

Suspect ACM samples were collected on the subject property on August 23 and 24, 2022. The purpose of the asbestos survey was to evaluate the subject property building for presence, quantity, locations, and characterization of ACM that may require abatement prior to demolition activities, in accordance with Asbestos Hazard Emergency Response Act (AHERA) and National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations as adopted by EPA. The intent of the asbestos NESHAP regulations is to protect the public and workers by minimizing release of asbestos fibers during activities involving processing, handling, and disposal of ACM. Inhalation of asbestos fibers can cause cancer and other lung diseases (Agency for Toxic Substances and Disease Registry 2016). The survey accorded with industry standard practice for hazardous materials surveys. Collection of samples of suspected ACM accorded with NESHAP regulations as adopted by EPA.

2.1.1.1 *Field Survey and Analytical Protocols*

START V made every effort to inspect all areas of the subject property building. Minor demolition of materials (destructive sampling) was required during the survey effort. Collection of suspect ACM samples accorded with NESHAP as adopted by EPA and AHERA protocols. AHERA defines ACM as any material or product that contains more than 1 percent asbestos. Suspected ACMs were grouped as homogeneous areas if the material was similar in appearance and texture; however, if the inspector decided a material (for example, wall texturing) was not similar in appearance and texture to other materials in the subject property building, the inspector distinguished the material as unique and collected samples of each unique material accordingly.

Bulk samples of suspected ACM were collected to ensure each distinct layer of material was represented in the sample. A wetting agent was applied to friable surfaces prior to sample collection to reduce the potential for fiber release. All samples collected were placed in plastic bags, labeled, and sealed immediately upon collection. A unique sample identification number was assigned to each sample. To prevent cross contamination between samples, the sampling instruments were wiped clean by use of a wet, lint-free cloth after collection of each sample.

The bulk samples of suspected ACM remained in the inspector's custody until sent to the laboratory. Upon completion of sampling activities, the samples were sent, along with the START chain-of-custody documentation, to Eurofins EMLab P&K for analysis per EPA Method 600/R-93/116 via polarized light

microscopy (PLM). Eurofins EMLab P&K is a National Voluntary Laboratory Accreditation Program-certified laboratory. Section 3.1 summarizes ACM analytical results. Sample locations are shown on Figures 3 through 6 in Appendix A. Appendix D presents ACM analytical results and chain-of-custody forms for the bulk samples, as well as the data validation report.

2.1.1.2 *Assumptions and Deviations*

START V inspected the interior and exterior of the subject property building for suspected ACM. Because of limitations on destructive sampling methods, additional suspect materials may be present but not detected in walls, voids, or other concealed areas.

2.1.2 Lead-Based Paint Screening

An LBP screening was conducted at the subject property on September 13, 2022. START V screened for presence, quantity, and locations of LBP exceeding lead hazard levels, which would require Occupational Safety and Health Administration (OSHA) worker safety precautions during development activities. The subject property building was constructed prior to 1978, and LBP likely was used in the build-out of the structures. The LBP screening proceeded according to protocols like single-family housing inspection procedures in U.S. Department of Housing and Urban Development (HUD) guidelines (HUD 2012). START V screened paint-covered surfaces using an X-ray fluorescence (XRF) spectrometer.

2.1.2.1 *Field Survey and Analytical Protocols*

START V made every effort to inspect all exterior areas of the subject property structures. HUD (2012) *Guidelines for the Evaluation and Control of LBP in Housing* (HUD Guidelines) suggests that paint applied before 1978 could contain lead.

An XRF screening of suspected LBP was performed according to protocols like single-family housing inspection procedures in the HUD Guidelines. START V used an Viken PB200i analyzer to perform the LBP screening. The Viken PB200i is an XRF spectrum analyzing system for quantitative measurement of lead in paint on various substrates. START V performed XRF screening of suspect painted surfaces that possibly would be impacted during renovation or demolition activities.

START V used the XRF Lead Paint Mode for testing, standardized per the equipment instruction manual, and programmed the unit with an action level of 1.0 milligram per square centimeter (mg/cm^2). The Housing and Community Development Act of 1987 (Public Law 100-242) considers LBP to be paint containing greater than or equal to 1.0 mg/cm^2 lead by XRF testing or 1.0 mg/cm^2 lead by laboratory analysis.

START V conducted XRF calibration checks on the Viken PB200i spectrometer according to recommended protocol and HUD Guidelines. These quality control readings were used to monitor performance of the Viken PB200i spectrometer. Calibration-check readings were taken at the beginning of operation from a Standard Reference Material paint film developed by the National Institute of

Standards and Technology. Section 3.1.2 summarizes results from the XRF screening of samples of painted surfaces collected at the subject property.

2.1.2.2 *Assumptions and Deviations*

START V made no assumptions or deviations during the lead-based paint screening.

2.2 SUB-SLAB SOIL VAPOR SAMPLING

START V collected three soil vapor samples on the subject property on September 13, 2022.

2.2.1.1 *Field Survey and Analytical Protocols*

Soil vapor was sampled at three locations in the basement of the subject property building (PC-SG-01, PC-SG-02, and PC-SG-03; Figure 3). The exact locations were selected based on accessibility.

Three sub-slab soil vapor samples were collected. At each location, a hammer drill was used to drill a 5/8-inch diameter hole through the concrete floor of the basement and approximately 1 inch into the soil below. The drill was removed, and the hole was cleaned with a bottle brush. A vapor pin assembly was hammered into the hole, capped, and allowed to re-equilibrate for approximately 30 minutes. Laboratory-supplied regulators and 6-liter Summa canisters were connected by new tubing to the vapor pins. A shroud leak detection test was conducted by use of high-purity helium gas as a tracer. After leak testing, the sampling train was purged, and vapor samples were collected. Regulators were adjusted to slow flow for an approximate 30-minute sample period. After collection of air samples, the vapor pins were removed, and the holes were patched with concrete. One duplicate quality control soil vapor sample was collected concurrently by use of a sampling tee.

The samples remained in the inspector's custody until sent to the laboratory. Upon completion of sampling activities, soil vapor samples were shipped, along with the START chain-of-custody documentation, via FedEx to ALS in Simi Valley, California, on September 19, 2022. The samples were analyzed for VOCs via EPA Method Toxic Organics (TO)-15.

2.2.1.2 *Assumptions and Deviations*

Results from sample PC-SG-01 should not be considered valid because the Summa canister failed.

2.3 INDOOR AND AMBIENT AIR

START V collected indoor air samples at three locations and an ambient air sample at one location on the subject property on September 13, 2022.

2.3.1.1 *Field Survey and Analytical Protocols*

One indoor air sample was collected on each floor of the subject property structure for a total of three indoor air samples. Additionally, one ambient air sample was taken from the exterior of the subject property structure. The samples were collected using a 6-liter Summa canister and regulators were adjusted to slow flow for an approximate 8-hour sample period. Each Summa canister was placed at

least 3 feet from any exterior door or window and was not placed directly under blowing air. Exterior doors remained closed except for normal entry and exit; windows remained closed throughout the testing period. One duplicate quality control soil vapor sample was collected concurrently by use of a sampling tee.

The samples remained in the inspector's custody until sent to the laboratory. Upon completion of sampling activities, soil vapor samples were shipped, along with the START chain-of-custody documentation, via FedEx to ALS in Simi Valley, California, on September 19, 2022. The samples were analyzed for VOCs via EPA Method Toxic Organics (TO)-15.

2.3.1.2 *Assumptions and Deviations*

START V made no assumptions or deviations during indoor and ambient air sampling.

3.0 FINDINGS AND RESULTS

A START V data validator reviewed analytical reports according to Tetra Tech's Standard Operating Procedure 203-1, *Laboratory Analytical Data Verification* (Tetra Tech 2022). The data verification reports are included in the relevant appendices with the analytical reports. Based on results of the data verification, all data was considered usable for this report.

3.1 HAZARDOUS MATERIALS SURVEY

3.1.1 Asbestos-Containing Material

Analytical results for suspected ACM samples collected at the subject property building are summarized in Table 1. Bolded and orange-shaded results in Table 1 indicate where asbestos was detected at a concentration greater than 1 percent. Bolded and green-shaded results in Table 1 indicate where trace asbestos was detected at a concentration less than 1 percent. Sample locations are shown on Figures 3 through 6 in Appendix A. Appendix D presents the analytical report for PLM results from suspected ACM samples collected at the subject property building, chain-of-custody documentation, and data validation report.

3.1.2 Lead-Based Paint

A summary of screening results for LBP by use of the XRF spectrometer at the subject property building appears in Table 2. Bolded results in Table 2 indicate where LBP was detected at a concentration equal to or greater than 1.0 mg/cm^2.

Table 1: Summary of Analytical Results from Suspected Asbestos-Containing Materials

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
1	PCC-CT-01-A	Ceiling Tile	White	BASEMENT TELEHEALTH CENTER	ND	NA
2	PCC-CT-01-B	Ceiling Tile	White	BASEMENT TELEHEALTH CENTER	ND	NA
3	PCC-CT-01-C	Ceiling Tile	White	BASEMENT TELEHEALTH CENTER	ND	NA
4	PCC-CT-02-A	Ceiling Tile	White	BASEMENT TELEHEALTH CENTER	ND	NA
5	PCC-CT-02-B	Ceiling Tile	White	BASEMENT TELEHEALTH CENTER	ND	NA
6	PCC-CT-02-C	Ceiling Tile	White	BASEMENT TELEHEALTH CENTER	ND	NA
7	PCC-CT-03-A	Ceiling Tile	White	THROUGHOUT BASEMENT	ND	NA
8	PCC-CT-03-B	Ceiling Tile	White	THROUGHOUT BASEMENT	ND	NA
9	PCC-CT-03-C	Ceiling Tile	White	THROUGHOUT BASEMENT	ND	NA
10	PCC-CT-03-D	Ceiling Tile	White	THROUGHOUT BASEMENT	ND	NA
11	PCC-CT-03-E	Ceiling Tile	White	THROUGHOUT BASEMENT	ND	NA
12	PCC-CT-04-A	Ceiling Tile	White	BASEMENT MEN'S BATHROOM	ND	NA
13	PCC-CT-04-B	Ceiling Tile	White	BASEMENT MEN'S BATHROOM	ND	NA
14	PCC-CT-04-C	Ceiling Tile	White	BASEMENT MEN'S BATHROOM	ND	NA
15	PCC-CT-05-A	Ceiling Tile	White	BASEMENT WOMEN'S BATHOOM	ND	NA
16	PCC-CT-05-B	Ceiling Tile	White	BASEMENT WOMEN'S BATHOOM	ND	NA
17	PCC-CT-05-C	Ceiling Tile	White	BASEMENT WOMEN'S BATHOOM	ND	NA
18	PCC-CT-06-A	Ceiling Tile	White	BASEMENT BINGO AREA	ND	NA
19	PCC-CT-06-B	Ceiling Tile	White	BASEMENT BINGO AREA	ND	NA
20	PCC-CT-06-C	Ceiling Tile	White	BASEMENT BINGO AREA	ND	NA
21	PCC-CON-01-A	Concrete	Gray	BASEMENT WALLS	ND	NA
22	PCC-CON-01-B	Concrete	Gray	BASEMENT WALLS	ND	NA
23	PCC-CON-01-C	Concrete	Gray	BASEMENT WALLS	ND	NA
24	PCC-CON-01-D	Concrete	Gray	BASEMENT WALLS	ND	NA
25	PCC-CON-01-E	Concrete	Gray	BASEMENT WALLS	ND	NA
26	PCC-CON-02-A	Concrete	Gray	BASEMENT SLAB	ND	NA

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
27	PCC-CON-02-B	Concrete	Gray	BASEMENT SLAB	ND	NA
28	PCC-CON-02-C	Concrete	Gray	BASEMENT SLAB	ND	NA
29	PCC-CON-02-D	Concrete	Gray	BASEMENT SLAB	ND	NA
30	PCC-CON-02-E	Concrete	Gray	BASEMENT SLAB	ND	NA
31	PCC-DWS-01-A	Joint Compound	White	BASEMENT TELEHEALTH CENTER	ND	NA
	PCC-DWS-01-A	Drywall	White	BASEMENT TELEHEALTH CENTER	ND	NA
32	PCC-DWS-01-B	Joint Compound	White	BASEMENT TELEHEALTH CENTER	ND	NA
	PCC-DWS-01-B	Drywall	White	BASEMENT TELEHEALTH CENTER	ND	NA
33	PCC-DWS-01-C	Joint Compound	White	BASEMENT TELEHEALTH CENTER	ND	NA
	PCC-DWS-01-C	Drywall	White	BASEMENT TELEHEALTH CENTER	ND	NA
34	PCC-CON-03-A	Concrete	Gray	BASEMENT NORTH EXIT STAIRS AND LANDING	ND	NA
35	PCC-CON-03-B	Concrete	Gray	BASEMENT NORTH EXIT STAIRS AND LANDING	ND	NA
36	PCC-CON-03-C	Concrete	Gray	BASEMENT NORTH EXIT STAIRS AND LANDING	ND	NA
37	PCC-GRT-01-A	Grout	Gray	BASMENT NORTH EXIT CINDER BLOCKS	ND	NA
38	PCC-GRT-01-B	Grout	Gray	BASMENT NORTH EXIT CINDER BLOCKS	ND	NA
39	PCC-GRT-01-C	Grout	Gray	BASMENT NORTH EXIT CINDER BLOCKS	ND	NA
40	PCC-GRT-02-A	Grout	Gray	BASEMENT FIREPLACE BRICK	ND	NA
41	PCC-GRT-02-B	Grout	Gray	BASEMENT FIREPLACE BRICK	ND	NA
42	PCC-GRT-02-C	Grout	Gray	BASEMENT FIREPLACE BRICK	ND	NA
43	PCC-MAS-01-A	Mastic	Tan	BASEMENT FIREPLACE WOODEN MOULDING	ND	NA
44	PCC-MAS-01-B	Mastic	Tan	BASEMENT FIREPLACE WOODEN MOULDING	ND	NA
45	PCC-MAS-01-C	Mastic	Tan	BASEMENT FIREPLACE WOODEN MOULDING	ND	NA
46	PCC-CPT-01-A	Carpet	Blue	BASEMENT DINING AREA AND BINGO AREA	ND	NA
	PCC-CPT-01-A	Mastic	Yellow	BASEMENT DINING AREA AND BINGO AREA	ND	NA
47	PCC-CPT-01-B	Carpet	Blue	BASEMENT DINING AREA AND BINGO AREA	ND	NA
	PCC-CPT-01-B	Mastic	Yellow	BASEMENT DINING AREA AND BINGO AREA	ND	NA
48	PCC-CPT-01-C	Carpet	Blue	BASEMENT DINING AREA AND BINGO AREA	ND	NA

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
	PCC-CPT-01-C	Mastic	Yellow	BASEMENT DINING AREA AND BINGO AREA	ND	NA
49	PCC-CPT-01-D	Carpet	Blue	BASEMENT DINING AREA AND BINGO AREA	ND	NA
	PCC-CPT-01-D	Mastic	Yellow	BASEMENT DINING AREA AND BINGO AREA	ND	NA
50	PCC-CPT-01-E	Carpet	Blue	BASEMENT DINING AREA AND BINGO AREA	ND	NA
	PCC-CPT-01-E	Mastic	Yellow	BASEMENT DINING AREA AND BINGO AREA	ND	NA
51	PCC-FT-01-A	Floor Tile	Blue	THROUGHOUT BASEMENT	ND	NA
	PCC-FT-01-A	Mastic	Yellow	THROUGHOUT BASEMENT	ND	NA
52	PCC-FT-01-B	Floor Tile	Blue	THROUGHOUT BASEMENT	ND	NA
	PCC-FT-01-B	Mastic	Yellow	THROUGHOUT BASEMENT	ND	NA
53	PCC-FT-01-C	Floor Tile	Blue	THROUGHOUT BASEMENT	ND	NA
	PCC-FT-01-C	Mastic	Yellow	THROUGHOUT BASEMENT	ND	NA
54	PCC-FT-01-D	Floor Tile	Blue	THROUGHOUT BASEMENT	ND	NA
	PCC-FT-01-D	Mastic	Yellow	THROUGHOUT BASEMENT	ND	NA
55	PCC-FT-01-E	Floor Tile	Blue	THROUGHOUT BASEMENT	ND	NA
	PCC-FT-01-E	Mastic	Yellow	THROUGHOUT BASEMENT	ND	NA
56	PCC-DWS-02-A	Joint Compound	White	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT	ND	NA
	PCC-DWS-02-A	Drywall	White	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT	ND	NA
57	PCC-DWS-02-B	Joint Compound	White	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT	ND	NA
	PCC-DWS-02-B	Drywall	White	BASEMENT PRISONER CAGE AREA AND BINGO AREA	ND	NA
58	PCC-DWS-02-C	Joint Compound	White	BASEMENT PRISONER CAGE AREA AND BINGO AREA	ND	NA
	PCC-DWS-02-C	Drywall	White	BASEMENT PRISONER CAGE AREA AND BINGO AREA	ND	NA
59	PCC-DWS-03-A	Joint Compound	White	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT	ND	NA
	PCC-DWS-03-A	Drywall	White	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT	ND	NA
60	PCC-DWS-03-B	Joint Compound	White	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT	ND	NA
	PCC-DWS-03-B	Drywall	White	BASEMENT PRISONER CAGE AREA AND BINGO AREA	ND	NA
61	PCC-DWS-03-C	Joint Compound	White	BASEMENT PRISONER CAGE AREA AND BINGO AREA	ND	NA
	PCC-DWS-03-C	Drywall	White	BASEMENT PRISONER CAGE AREA AND BINGO AREA	ND	NA

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
62	PCC-PLAS-01-A	Plaster	Gray	THROUGHOUT ENTIRE BUILDING	ND	NA
63	PCC-PLAS-01-B	Compound	White	THROUGHOUT ENTIRE BUILDING	ND	NA
	PCC-PLAS-01-B	Plaster	Gray	THROUGHOUT ENTIRE BUILDING	ND	NA
64	PCC-PLAS-01-C	Plaster	Gray	THROUGHOUT ENTIRE BUILDING	ND	NA
65	PCC-PLAS-01-D	Plaster	Gray	THROUGHOUT ENTIRE BUILDING	ND	NA
66	PCC-PLAS-01-E	Plaster	Gray	THROUGHOUT ENTIRE BUILDING	ND	NA
67	PCC-PLAS-01-F	Plaster	Gray	THROUGHOUT ENTIRE BUILDING	ND	NA
68	PCC-PLAS-01-G	Plaster	Gray	THROUGHOUT ENTIRE BUILDING	ND	NA
69	PCC-CON-04-A	Stucco	White	EXTERIOR SOUTH SIDE	ND	NA
	PCC-CON-04-A	Concrete	Gray	EXTERIOR SOUTH SIDE	ND	NA
70	PCC-CON-04-B	Stucco	White	EXTERIOR SOUTH SIDE	ND	NA
	PCC-CON-04-B	Concrete	Gray	EXTERIOR SOUTH SIDE	ND	NA
71	PCC-CON-04-C	Stucco	White	EXTERIOR SOUTH SIDE	ND	NA
	PCC-CON-04-C	Concrete	Gray	EXTERIOR SOUTH SIDE	ND	NA
72	PCC-GRT-03-A	Grout	Gray	EXTERIOR SOUTH AND WEST SIDES	ND	NA
73	PCC-GRT-03-B	Grout	Gray	EXTERIOR SOUTH AND WEST SIDES	ND	NA
74	PCC-GRT-03-C	Grout	Gray	EXTERIOR SOUTH AND WEST SIDES	ND	NA
75	PCC-GRT-03-D	Grout	Gray	EXTERIOR SOUTH AND WEST SIDES	ND	NA
76	PCC-GRT-03-E	Grout	Gray	EXTERIOR SOUTH AND WEST SIDES	ND	NA
77	PCC-GRT-04-A	Grout	Gray	THROUGHOUT EXTERIOR BLOCKS	ND	NA
78	PCC-GRT-04-B	Grout	Gray	THROUGHOUT EXTERIOR BLOCKS	ND	NA
79	PCC-GRT-04-C	Grout	Gray	THROUGHOUT EXTERIOR BLOCKS	ND	NA
80	PCC-GRT-04-D	Grout	Gray	THROUGHOUT EXTERIOR BLOCKS	ND	NA
81	PCC-GRT-04-E	Grout	Gray	THROUGHOUT EXTERIOR BLOCKS	ND	NA
82	PCC-GRT-04-F	Grout	Gray	THROUGHOUT EXTERIOR BLOCKS	ND	NA
83	PCC-GRT-04-G	Grout	Gray	THROUGHOUT EXTERIOR BLOCKS	ND	NA
84	PCC-GRT-05-A	Grout	Gray	EXTERIOR CHIMNEY BRICKS	ND	NA

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
85	PCC-GRT-05-B	Grout	Gray	EXTERIOR CHIMNEY BRICKS	ND	NA
86	PCC-GRT-05-C	Grout	Gray	EXTERIOR CHIMNEY BRICKS	ND	NA
87	PCC-RM-01-A	Roofing Shingle	Gray	EXTERIOR ROOF OF STAIRWAY TO BASEMENT NORTH EXIT	ND	NA
	PCC-RM-01-A	**Roofing Mastic**	**Black**	**EXTERIOR ROOF OF STAIRWAY TO BASEMENT NORTH EXIT**	**3.25% Chrysotile[2]**	**25 SF**
88	PCC-RM-01-B	Roofing Shingle	Gray	EXTERIOR ROOF OF STAIRWAY TO BASEMENT NORTH EXIT	ND	NA
89	PCC-RM-01-C	Roofing Shingle	Gray	EXTERIOR ROOF OF STAIRWAY TO BASEMENT NORTH EXIT	ND	NA
	PCC-RM-01-C	**Roofing Mastic**	**Black**	**EXTERIOR ROOF OF STAIRWAY TO BASEMENT NORTH EXIT**	**4% Chrysotile[2]**	**25 SF**
90	PCC-CON-05-A	Concrete	Gray	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES	ND	NA
91	PCC-CON-05-B	Concrete	Gray	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES	ND	NA
92	PCC-CON-05-C	Concrete	Gray	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES	ND	NA
93	PCC-CON-05-D	Concrete	Gray	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES	ND	NA
94	PCC-CON-05-E	Concrete	Gray	EXTERIOR SOUTH SIDE WINDOWSILLS AND TOE STEP	ND	NA
95	PCC-CON-06-A	Concrete	Gray	EXTERIOR SOUTH SIDE WINDOWSILLS AND TOE STEP	ND	NA
96	PCC-CON-06-B	Concrete	Gray	EXTERIOR SOUTH SIDE WINDOWSILLS AND TOE STEP	ND	NA
97	PCC-CON-06-C	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (NEAREST BUILDING)	ND	NA
98	PCC-CON-07-A	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (NEAREST BUILDING)	ND	NA
99	PCC-CON-07-B	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (NEAREST BUILDING)	ND	NA
100	PCC-CON-07-C	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (MIDDLE)	ND	NA
101	PCC-CON-08-A	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (MIDDLE)	ND	NA
102	PCC-CON-08-B	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (MIDDLE)	ND	NA
103	PCC-CON-08-C	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (FURTHEST FROM BUILDING)	ND	NA
104	PCC-CON-09-A	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (FURTHEST FROM BUILDING)	ND	NA
105	PCC-CON-09-B	Concrete	Gray	EXTERIOR SOUTH SIDE SIDEWALK (FURTHEST FROM BUILDING)	ND	NA
106	PCC-CON-09-C	Concrete	Gray	EXTERIOR EAST SIDE PAD	ND	NA
107	PCC-CON-10-A	Concrete	Gray	EXTERIOR EAST SIDE PAD	ND	NA
108	PCC-CON-10-B	Concrete	Gray	EXTERIOR EAST SIDE PAD	ND	NA

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
109	PCC-CON-10-C	Concrete	Gray	EXTERIOR FLAGPOLE PAD	ND	NA
110	PCC-CON-11-A	Concrete	Gray	EXTERIOR FLAGPOLE PAD	ND	NA
111	PCC-CON-11-B	Concrete	Gray	EXTERIOR FLAGPOLE PAD	ND	NA
112	PCC-CON-11-C	Concrete	Gray	EXTERIOR NORTH SIDE ADA PARKING	ND	NA
113	PCC-CON-12-A	Concrete	Gray	EXTERIOR NORTH SIDE ADA PARKING	ND	NA
114	PCC-CON-12-B	Concrete	Gray	EXTERIOR NORTH SIDE ADA PARKING	ND	NA
115	PCC-CON-12-C	Concrete	Gray	EXTERIOR NORTH SIDE PARKING PAD	ND	NA
116	PCC-CON-13-A	Concrete	Gray	EXTERIOR NORTH SIDE PARKING PAD	ND	NA
117	PCC-CON-13-B	Concrete	Gray	EXTERIOR NORTH SIDE PARKING PAD	ND	NA
118	PCC-CON-13-C	Concrete	Gray	EXTERIOR BUILDING REPAIR NW CORNER	ND	NA
119	PCC-CON-14-A	Concrete	Gray	EXTERIOR BUILDING REPAIR NW CORNER	ND	NA
120	PCC-CON-14-B	Concrete	Gray	EXTERIOR BUILDING REPAIR NW CORNER	ND	NA
121	PCC-CON-14-C	Concrete	Gray	EXTERIOR NORTH SIDE WINDOWS	ND	NA
122	**PCC-WG-01-A**	**Window Glazing**	**White**	**EXTERIOR NORTH SIDE WINDOWS**	**0.75% Chrysotile[2]**	**100 LF**
123	**PCC-WG-01-B**	**Window Glazing**	**White**	**EXTERIOR NORTH SIDE WINDOWS**	**0.50% Chrysotile[2]**	**100 LF**
124	**PCC-WG-01-C**	**Window Glazing**	**White**	**EXTERIOR NORTH SIDE WINDOWS**	**0.50% Chrysotile[2]**	**100 LF**
125	PCC-TSI-01-A	Vermiculite Insulation	Brown	ROOF INSULATION ACCESSED FROM 2ND FLOOR	ND	NA
126	**PCC-TSI-01-B**	**Vermiculite Insulation**	**Brown**	**ROOF INSULATION ACCESSED FROM 2ND FLOOR**	**<1% Actinolite**	**1500 SF**
127	**PCC-TSI-01-C**	**Vermiculite Insulation**	**Brown**	**ROOF INSULATION ACCESSED FROM 2ND FLOOR**	**<1% Actinolite**	**1500 SF**
128	PCC-TSI-01-D	Vermiculite Insulation	Brown	ROOF INSULATION ACCESSED FROM 2ND FLOOR	ND	NA
129	**PCC-TSI-01-E**	**Vermiculite Insulation**	**Brown**	**ROOF INSULATION ACCESSED FROM 2ND FLOOR**	**<1% Actinolite**	**1500 SF**
130	PCC-DWS-04-A	Drywall	White	2ND FLOOR NO ADMITTANCE AREA REPAIR	ND	NA

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
131	PCC-DWS-04-B	Drywall	White	2ND FLOOR NO ADMITTANCE AREA REPAIR	ND	NA
132	PCC-DWS-04-C	Drywall	White	2ND FLOOR NO ADMITTANCE AREA REPAIR WEST	ND	NA
133	PCC-DWS-05-A	Joint Compound	White	2ND FLOOR NO ADMITTANCE AREA REPAIR EAST	ND	NA
	PCC-DWS-05-A	Drywall	White	2ND FLOOR NO ADMITTANCE AREA REPAIR EAST	ND	NA
134	PCC-DWS-05-B	Joint Compound	White	2ND FLOOR NO ADMITTANCE AREA REPAIR	ND	NA
	PCC-DWS-05-B	Drywall	White	2ND FLOOR NO ADMITTANCE AREA REPAIR	ND	NA
135	PCC-DWS-05-C	Joint Compound	White	2ND FLOOR NO ADMITTANCE AREA REPAIR WEST	ND	NA
	PCC-DWS-05-C	Drywall	White	2ND FLOOR NO ADMITTANCE AREA REPAIR EAST	ND	NA
136	**PCC-FT-02-A**	**Floor Tile**	**Blue**	**ADMITTANCE AREA REPAIR**	**1.75% Chrysotile[2]**	**75 SF**
	PCC-FT-02-A	Mastic	Black	ADMITTANCE AREA REPAIR	ND	NA
137	**PCC-FT-02-B**	**Floor Tile**	**Blue**	**2ND FLOOR SHERIFF STORAGE ROOM**	**2.25% Chrysotile[2]**	**75 SF**
	PCC-FT-02-B	Mastic	Black	2ND FLOOR SHERIFF STORAGE ROOM	ND	NA
138	**PCC-FT-02-C**	**Floor Tile**	**Blue**	**2ND FLOOR SHERIFF STORAGE, SHERIFF OFFICE, CHRISTMAS RM, 1ST FLOOR JURY RM**	**2.25% Chrysotile[2]**	**75 SF**
	PCC-FT-02-C	Mastic	Black	2ND FLOOR SHERIFF STORAGE, SHERIFF OFFICE, CHRISTMAS RM, 1ST FLOOR JURY RM	ND	NA
139	PCC-CT-07-A	Ceiling Tile	White	2ND FLOOR SHERIFF STORAGE, SHERIFF OFFICE, CHRISTMAS RM, 1ST FLOOR JURY RM	ND	NA
140	PCC-CT-07-B	Ceiling Tile	White	2ND FLOOR SHERIFF STORAGE, SHERIFF OFFICE, CHRISTMAS RM, 1ST FLOOR JURY RM	ND	NA
141	PCC-CT-07-C	Ceiling Tile	White	2ND FLOOR SHERIFF STORAGE, SHERIFF OFFICE, CHRISTMAS RM, 1ST FLOOR JURY RM	ND	NA
142	PCC-DWS-06-A	Drywall	White	2ND FLOOR WALKER/CRUTCHES ROOM ON CEILING	ND	NA
143	PCC-DWS-06-B	Drywall	White	2ND FLOOR WALKER/CRUTCHES ROOM ON CEILING	ND	NA
144	PCC-DWS-06-C	Drywall	White	2ND FLOOR WALKER/CRUTCHES ROOM ON CEILING	ND	NA
145	PCC-DWS-07-A	Ceiling Tile	White	2ND FLOOR COUNTY ATTORNEY ROOM ON CEILING	ND	NA
146	PCC-DWS-07-B	Ceiling Tile	White	2ND FLOOR COUNTY ATTORNEY ROOM ON CEILING	ND	NA
147	PCC-DWS-07-C	Ceiling Tile	White	2ND FLOOR COUNTY ATTORNEY ROOM ON CEILING	ND	NA

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
148	PCC-CT-08-A	Ceiling Tile	White	2ND FLOOR BLUE ROOM AND LIBRARY	ND	NA
149	PCC-CT-08-B	Ceiling Tile	White	2ND FLOOR BLUE ROOM AND LIBRARY	ND	NA
150	PCC-CT-08-C	Ceiling Tile	White	2ND FLOOR BLUE ROOM AND LIBRARY	ND	NA
151	PCC-MAS-02-A	Mastic	Tan	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR	ND	NA
	PCC-MAS-02-A	Compound	White	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR	ND	NA
152	PCC-MAS-02-B	Mastic	Tan	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR	ND	NA
	PCC-MAS-02-B	Compound	White	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR	ND	NA
153	PCC-MAS-02-C	Mastic	Tan	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR	ND	NA
	PCC-MAS-02-C	Compound	White	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR	ND	NA
154	PCC-CPT-02-A	Carpet	Orange	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER	ND	NA
	PCC-CPT-02-A	Mastic	Yellow	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER	ND	NA
155	PCC-CPT-02-B	Carpet	Orange	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER	ND	NA
	PCC-CPT-02-B	Mastic	Yellow	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER	ND	NA
156	PCC-CPT-02-C	Carpet	Orange	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER	ND	NA
	PCC-CPT-02-C	Mastic	Yellow	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER	ND	NA
157	PCC-CPT-03-A	Carpet	Brown	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE	ND	NA
	PCC-CPT-03-A	Mastic	Yellow	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE	ND	NA
158	PCC-CPT-03-B	Carpet	Brown	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE	ND	NA
	PCC-CPT-03-B	Mastic	Yellow	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE	ND	NA
159	PCC-CPT-03-C	Carpet	Brown	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE	ND	NA
	PCC-CPT-03-C	Mastic	Yellow	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE	ND	NA
160	PCC-CPT-04-A	Carpet	Green	1ST FLOOR JANITOR AREA	ND	NA
	PCC-CPT-04-A	Mastic	White	1ST FLOOR JANITOR AREA	ND	NA
161	PCC-CPT-04-B	Carpet	Green	1ST FLOOR JANITOR AREA	ND	NA
	PCC-CPT-04-B	Mastic	White	1ST FLOOR JANITOR AREA	ND	NA
162	PCC-CPT-04-C	Carpet	Green	1ST FLOOR JANITOR AREA	ND	NA
	PCC-CPT-04-C	Mastic	White	1ST FLOOR JANITOR AREA	ND	NA

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
163	PCC-CPT-05-A	Carpet	Blue	1ST FLOOR COURT ROOM	ND	NA
	PCC-CPT-05-A	Mastic	Yellow	1ST FLOOR COURT ROOM	ND	NA
164	PCC-CPT-05-B	Carpet	Blue	1ST FLOOR COURT ROOM	ND	NA
	PCC-CPT-05-B	Mastic	Yellow	1ST FLOOR COURT ROOM	ND	NA
165	PCC-CPT-05-C	Carpet	Blue	1ST FLOOR COURT ROOM	ND	NA
	PCC-CPT-05-C	Mastic	Yellow	1ST FLOOR COURT ROOM	ND	NA
166	PCC-DWS-08-A	Drywall	White	THROUGHOUT 1ST FLOOR	ND	NA
167	PCC-DWS-08-B	Drywall	White	THROUGHOUT 1ST FLOOR	ND	NA
168	PCC-DWS-08-C	Drywall	White	THROUGHOUT 1ST FLOOR	ND	NA
169	PCC-DWS-08-D	Drywall	White	THROUGHOUT 1ST FLOOR	ND	NA
170	PCC-DWS-08-E	Drywall	White	THROUGHOUT 1ST FLOOR	ND	NA
171	PCC-CT-09-A	Ceiling Tile	White	THROUGHOUT 1ST FLOOR	ND	NA
172	PCC-CT-09-B	Ceiling Tile	White	THROUGHOUT 1ST FLOOR	ND	NA
173	PCC-CT-09-C	Ceiling Tile	White	THROUGHOUT 1ST FLOOR	ND	NA
174	PCC-CT-09-D	Ceiling Tile	White	THROUGHOUT 1ST FLOOR	ND	NA
175	PCC-CT-09-E	Ceiling Tile	White	THROUGHOUT 1ST FLOOR	ND	NA
176	PCC-DWS-09-A	Drywall	White	1ST FLOOR ENTRYWALL CEILING	ND	NA
177	PCC-DWS-09-B	Drywall	White	1ST FLOOR ENTRYWALL CEILING	ND	NA
178	PCC-DWS-09-C	Drywall	White	1ST FLOOR ENTRYWALL CEILING	ND	NA
179	PCC-FT-03-A	Floor Tile	Tan	1ST FLOOR EMPLOYEE'S BATHROOM	ND	NA
	PCC-FT-03-A	Mastic	Yellow	1ST FLOOR EMPLOYEE'S BATHROOM	ND	NA
180	PCC-FT-03-B	Floor Tile	Tan	1ST FLOOR EMPLOYEE'S BATHROOM	ND	NA
	PCC-FT-03-B	Mastic	Yellow	1ST FLOOR EMPLOYEE'S BATHROOM	ND	NA
181	PCC-FT-03-C	Floor Tile	Tan	1ST FLOOR EMPLOYEE'S BATHROOM	ND	NA
	PCC-FT-03-C	Mastic	Yellow	1ST FLOOR EMPLOYEE'S BATHROOM	ND	NA
182	**PCC-FT-04-A**	**Floor Tile**	**Green**	**2ND FLOOR SHERIFF'S OFFICE**	**2.75% Chrysotile[2]**	**160 SF**

Table 1: Summary of Suspect Asbestos-Containing Materials Laboratory Analysis (Continued)

Sample No.	Sample ID	Material Description	Color	Material Location	Analytical Result (% asbestos[1])	Quantity
	PCC-FT-04-A	Mastic	Black	2ND FLOOR SHERIFF'S OFFICE	ND	NA
183	**PCC-FT-04-B**	**Floor Tile**	**Green**	**2ND FLOOR SHERIFF'S OFFICE**	**2.5% Chrysotile[2]**	**160 SF**
	PCC-FT-04-B	Mastic	Black	2ND FLOOR SHERIFF'S OFFICE	ND	NA
184	**PCC-FT-04-C**	**Floor Tile**	**Green**	**2ND FLOOR SHERIFF'S OFFICE**	**2% Chrysotile[2]**	**160 SF**
	PCC-FT-04-C	Mastic	Black	2ND FLOOR SHERIFF'S OFFICE	ND	NA

Notes:

Bolded and orange-shaded results indicate that asbestos was detected at greater than 1 percent.

Bolded and green-shaded results indicated that trace asbestos was detected.

[1] AHERA defines ACM as any material or product that contains more than 1 percent asbestos

[2] Results confirmed by 400-point count analysis

ACM	Asbestos-containing material
AHERA	Asbestos Hazard and Response Act
LF	Linear feet
NA	Not applicable
ND	Not detected
SF	Square feet

Table 2: Summary of Lead-Based Paint Screening Results

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
1	Calibration Standard					1	NA	NA
2	Calibration Standard					1	NA	NA
3	Calibration Standard					1	NA	NA
4	Beige	Courthouse	Room 1	NA	NA	0	NA	NA
5	White	Courthouse	Room 1	NA	NA	0	NA	NA
6	Beige	Courthouse	Room 1	NA	NA	0	NA	NA
7	Beige	Courthouse	Room 1	NA	NA	0.4	NA	NA
8	Beige	Courthouse	Room 1	NA	NA	0.3	NA	NA
9	Green	Courthouse	Room 2	NA	NA	0	NA	NA
10	Gray	Courthouse	Room 2	NA	NA	0.2	NA	NA
11	Gray	Courthouse	Room 2	NA	NA	0.2	NA	NA
12	Gray	Courthouse	Room 2	NA	NA	0.2	NA	NA
13	White	Courthouse	Room 2	NA	NA	0	NA	NA
14	Green	Courthouse	Room 2	NA	NA	0.2	NA	NA
15	Green	Courthouse	Room 2	NA	NA	0.4	NA	NA
16	Green	Courthouse	Room 2	NA	NA	0.3	NA	NA
17	Gray	Courthouse	Room 2	NA	NA	0.1	NA	NA
18	Gray	Courthouse	Room 2	NA	NA	0.2	NA	NA
19	Gray	Courthouse	Room 2	NA	NA	0.1	NA	NA
20	White	Courthouse	Room 14	NA	NA	0.1	NA	NA
21	White	Courthouse	Room 14	NA	NA	0	NA	NA
22	White	Courthouse	Room 14	NA	NA	0.2	NA	NA
23	White	Courthouse	Room 14	NA	NA	0.3	NA	NA
24	Green	Courthouse	Room 14	NA	NA	0	NA	NA
25	Green	Courthouse	Room 13	NA	NA	0.3	NA	NA
26	Green	Courthouse	Room 13	NA	NA	0.1	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
27	Green	Courthouse	Room 13	Wall C	Plaster	0.3	NA	NA
28	Green	Courthouse	Room 13	Wall D	Plaster	0.1	NA	NA
29	Beige	Courthouse	Room 13	Wall above picture rail	Plaster	0.4	NA	NA
30	Gray	Courthouse	Room 13	Floor	Wood	0.1	NA	NA
31	Green	Courthouse	Room 15	Wall A	Plaster	0.2	NA	NA
32	Green	Courthouse	Room 15	Wall B	Plaster	0	NA	NA
33	Green	Courthouse	Room 15	Wall C	Plaster	0.2	NA	NA
34	Green	Courthouse	Room 15	Wall D	Plaster	0.1	NA	NA
35	Gray	Courthouse	Room 15	Floor	Wood	0	NA	NA
36	Green	Courthouse	Room 12	Wall A	Plaster	0.1	NA	NA
37	Green	Courthouse	Room12	Wall B	Plaster	0.1	NA	NA
38	Green	Courthouse	Room 12	Wall C	Plaster	0.1	NA	NA
39	Green	Courthouse	Room 12	Wall D	Plaster	0.2	NA	NA
40	Gray	Courthouse	Room 12	Floor	Concrete	0.2	NA	NA
41	Off-white	Courthouse	Room 16	Wall A	Plaster	0.1	NA	NA
42	White	Courthouse	Room 16	Wall A	Plaster	0.2	NA	NA
43	Off-white	Courthouse	Room 16	Wall B	Plaster	0.2	NA	NA
44	White	Courthouse	Room 16	Wall B	Plaster	0.2	NA	NA
45	Off-white	Courthouse	Room 16	Baseboard, wall B	Wood	0.3	NA	NA
46	Off-white	Courthouse	Room 16	Wall C	Plaster	0.3	NA	NA
47	Off-white	Courthouse	Room 16	Windowsill, wall C	Wood	0	NA	NA
48	Off-white	Courthouse	Room 16	Wall D	Plaster	0.1	NA	NA
49	White	Courthouse	Room 16	Door, wall D	Wood	0.2	NA	NA
50	White	Courthouse	Room 16	Door trim, wall D	Wood	0.2	NA	NA
51	White	Courthouse	Room 16	Door jam, wall D	Wood	0.2	NA	NA
52	Gray	Courthouse	Room 16	Floor	Wood	0.1	NA	NA
53	White	Courthouse	Hallway 1	Wall C	Plaster	0	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
54	White	Courthouse	Hallway 1	Wall D	Plaster	0.3	NA	NA
55	White	Courthouse	Hallway 1	Wall B	Plaster	0.3	NA	NA
56	Green	Courthouse	Room 11	Wall C	Plaster	0.1	NA	NA
57	Dark green	Courthouse	Room 11	Windowsill, wall C	Wood	0	NA	NA
58	Dark green	Courthouse	Room 11	Baseboard, wall C	Wood	0.1	NA	NA
59	green	Courthouse	Room 11	Wall D	Plaster	0.1	NA	NA
60	Dark green	Courthouse	Room 11	Baseboard, wall D	Wood	0.1	NA	NA
61	Dark green	Courthouse	Room 11	Door frame, wall D	Wood	0	NA	NA
62	Green	Courthouse	Room 11	Wall A	Drywall	0.1	NA	NA
63	Green	Courthouse	Room 11	Wall B	Drywall	0.1	NA	NA
64	Dark green	Courthouse	Room 11	Door, wall B	Wood	0.1	NA	NA
65	Dark green	Courthouse	Room 11	Door frame, wall B	Wood	0.1	NA	NA
66	Forest green	Courthouse	Room 11	Floor	Wood	0.1	NA	NA
67	Green	Courthouse	Room 17	Wall A	Plaster	0	NA	NA
68	Green	Courthouse	Room 17	Wall B	Plaster	0.5	NA	NA
69	Green	Courthouse	Room 17	Wall C	Plaster	0	NA	NA
70	Pink	Courthouse	Room 17	Wall C	Plaster	0.1	NA	NA
71	Dark green	Courthouse	Room 17	West windowsill, wall C	Wood	0	NA	NA
72	Dark green	Courthouse	Room 17	West window apron, wall C	Wood	0.1	NA	NA
73	Dark green	Courthouse	Room 17	Baseboard, wall C	Wood	0.2	NA	NA
74	Dark green	Courthouse	Room 17	East windowsill, wall C	Wood	0	NA	NA
75	Dark green	Courthouse	Room 17	East window apron, wall C	Wood	0.1	NA	NA
76	Green	Courthouse	Room 17	Wall D	Plaster	0.4	NA	NA
77	Dark green	Courthouse	Room 17	East door frame, wall A	Wood	0.1	NA	NA
78	Dark green	Courthouse	Room 17	East door, wall A	Wood	0	NA	NA
79	Dark green	Courthouse	Room 17	West door frame, wall A	Wood	0.1	NA	NA
80	Dark green	Courthouse	Room 17	West door, wall A	Wood	0.1	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
81	Pink	Courthouse	Room 17	Closet (west), wall A	Plaster	0.1	NA	NA
82	Pink	Courthouse	Room 17	Closet (east), wall A	Plaster	0.1	NA	NA
83	Green	Courthouse	Room 17	Floor	Wood	0.2	NA	NA
84	White	Courthouse	Room 18	Wall A	Plaster	0.2	NA	NA
85	White	Courthouse	Room 18	Wall B	Plaster	0.1	NA	NA
86	White	Courthouse	Room 18	Wall C	Plaster	0.2	NA	NA
87	White	Courthouse	Room 18	Wall C	Plaster	0.4	NA	NA
88	Green	Courthouse	Room 18	Floor	Wood	0.1	NA	NA
89	Green	Courthouse	Room 18	Baseboard, wall C	Wood	0.2	NA	NA
90	White	Courthouse	Room 18	Door header, wall D	Wood	0.1	NA	NA
91	White	Courthouse	Room 18	Door, wall D	Wood	0.1	NA	NA
92	Green	Courthouse	Room 10	Wall A	Plaster	0.2	NA	NA
93	Green	Courthouse	Room 10	Wall B	Plaster	0	NA	NA
94	Green	Courthouse	Room 10	Wall C	Plaster	0.4	NA	NA
95	Green	Courthouse	Room 10	Wall D	Plaster	0.5	NA	NA
96	Dark green	Courthouse	Room 10	Windowsill (north), wall D	Wood	0.1	NA	NA
97	Dark green	Courthouse	Room 10	Windowsill (south), wall D	Wood	0.1	NA	NA
98	Dark green	Courthouse	Room 10	Baseboard, wall D	Wood	0.2	NA	NA
99	Dark green	Courthouse	Room 10	Baseboard, wall C	Wood	0.1	NA	NA
100	Green	Courthouse	Room 10	Floor	Wood	0.7	NA	NA
101	White	Courthouse	Room 19	Wall A	Plaster	0.1	NA	NA
102	White	Courthouse	Room 19	Baseboard, wall A	Wood	0.2	NA	NA
103	White	Courthouse	Room 19	Wall C	Plaster	0.3	NA	NA
104	White	Courthouse	Room 19	Wall D	Plaster	0.3	NA	NA
105	White	Courthouse	Room 19	Wall B	Plaster	0.2	NA	NA
106	White	Courthouse	Room 19	Door frame, wall B	Wood	0.1	NA	NA
107	White	Courthouse	Room 19	Door, wall B	Wood	0	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
108	White	Courthouse	Room 19	Door jam, wall B	Wood	0.1	NA	NA
109	Green	Courthouse	Room 19	Floor	Wood	0.3	NA	NA
110	Pink	Courthouse	Room 6	Wall A	Plaster	0.1	NA	NA
111	**White**	**Courthouse**	**Room 6**	**Sky light frame, wall D**	**Wood**	**2.3**	**Yes**	**~ 96 SF**
112	**White**	**Courthouse**	**Room 6**	**Sky light frame, wall A**	**Wood**	**3.6**	**Yes**	**~ 96 SF**
113	White	Courthouse	Room 20	Wall A	Plaster	0.1	NA	NA
114	White	Courthouse	Room 20	Wall B	Plaster	0.2	NA	NA
115	White	Courthouse	Room 20	Wall C	Plaster	0	NA	NA
116	White	Courthouse	Room 20	Baseboard, wall C	Wood	0.1	NA	NA
117	White	Courthouse	Room 20	Baseboard, wall A	Wood	0.2	NA	NA
118	White	Courthouse	Room 20	Door frame, wall D	Wood	0	NA	NA
119	White	Courthouse	Room 20	Door, wall D	Wood	0.1	NA	NA
120	White	Courthouse	Room 20	Wall D	Plaster	0.1	NA	NA
121	Mint	Courthouse	Room 9	Wall A	Plaster	0.3	NA	NA
122	Mint	Courthouse	Room 9	Wall B	Plaster	0	NA	NA
123	Beige	Courthouse	Room 9	Wall C	Plaster	0.2	NA	NA
124	Mint	Courthouse	Room 9	Wall C	Plaster	0.4	NA	NA
125	Mint	Courthouse	Room 9	Wall D	Plaster	0	NA	NA
126	Mint	Courthouse	Room 8	Wall A	Plaster	0.4	NA	NA
127	Beige	Courthouse	Room 8	Wall A	Plaster	0.2	NA	NA
128	Mint	Courthouse	Room 8	Wall D	Plaster	0.1	NA	NA
129	Mint	Courthouse	Room 8	Wall C	Plaster	0.2	NA	NA
130	Mint	Courthouse	Room 8	Wall B	Plaster	0.3	NA	NA
131	White	Courthouse	Hallway 2	Wall C	Plaster	0.1	NA	NA
132	White	Courthouse	Hallway 2	Wall D	Plaster	0	NA	NA
133	White	Courthouse	Hallway 2	Wall B	Plaster	0.1	NA	NA
134	White	Courthouse	Foyer	Wall C	Plaster	0.3	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
135	White	Courthouse	Foyer	Wall B	Plaster	0.1	NA	NA
136	White	Courthouse	Foyer	Wall A	Plaster	0.3	NA	NA
137	White	Courthouse	Foyer	Wall D	Plaster	0.4	NA	NA
138	Blue	Courthouse	Room 5	Wall A	Plaster	0	NA	NA
139	Blue	Courthouse	Room 5	Wall B	Plaster	0.1	NA	NA
140	Blue	Courthouse	Room 5	Wall C	Plaster	0.4	NA	NA
141	Blue	Courthouse	Room 5	Wall D	Plaster	0.2	NA	NA
142	Turquoise	Courthouse	Room 7	Wall A	Plaster	0.2	NA	NA
143	Turquoise	Courthouse	Room 7	Wall D	Plaster	0	NA	NA
144	Turquoise	Courthouse	Room 7	Wall C	Plaster	0	NA	NA
145	Turquoise	Courthouse	Room 7	Wall B	Plaster	0.4	NA	NA
146	Tan	Courthouse	Room 3	Wall A	Plaster	0	NA	NA
147	Brown	Courthouse	Room 3	Windowsill, wall A	Wood	0.2	NA	NA
148	Tan	Courthouse	Room 3	Window trim, wall A	Wood	0.1	NA	NA
149	Tan	Courthouse	Room 3	Wall B	Plaster	0.1	NA	NA
150	Brown	Courthouse	Room 3	Baseboard, wall B	Wood	0.1	NA	NA
151	Tan	Courthouse	Room 3	Wall C	Plaster	0	NA	NA
152	Brown	Courthouse	Room 3	Baseboard, wall C	Wood	0	NA	NA
153	Tan	Courthouse	Room 4	Wall A	Plaster	0.4	NA	NA
154	Tan	Courthouse	Room 4	Sill, wall A	Wood	0.2	NA	NA
155	Calibration Standard					1		
156	Calibration Standard					1		
157	Calibration Standard					1		
158	Beige	Courthouse	Entryway	Wall A	Plaster	0.1	NA	NA
159	Beige	Courthouse	Entryway	Wall B	Plaster	0	NA	NA
160	Beige	Courthouse	Entryway	Wall C	Plaster	0	NA	NA
161	Beige	Courthouse	Entryway	Wall D	Plaster	0.4	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
162	Beige	Courthouse	Entryway	Door frame, wall C	Wood	0	NA	NA
163	White	Courthouse	Foyer	Wall A	Plaster	0	NA	NA
164	White	Courthouse	Foyer	Wall B	Plaster	0	NA	NA
165	White	Courthouse	Foyer	Wall C	Plaster	0.3	NA	NA
166	White	Courthouse	Foyer	Wall D	Plaster	0	NA	NA
167	White	Courthouse	Foyer	Windowsill, wall D	Wood	0	NA	NA
168	White	Courthouse	Foyer	Window frame, wall D	Wood	0	NA	NA
169	White	Courthouse	Door jams side D to hall	Door	Wood	0	NA	NA
170	White	Courthouse	Room 21	Wall A	Plaster	0	NA	NA
171	Blue	Courthouse	Room 21	Wall A	Plaster	0.1	NA	NA
172	White	Courthouse	Room 21	Wall B	Wood paneling	0.1	NA	NA
173	White	Courthouse	Room 21	Wall C	Wood paneling	0.1	NA	NA
174	White	Courthouse	Room 21	Wall D	Wood paneling	0.3	NA	NA
175	Tan	Courthouse	Room 22	Wall A	Plaster	0.2	NA	NA
176	Mauve	Courthouse	Room 22	Wall A	Plaster	0	NA	NA
177	Tan	Courthouse	Room 22	Wall B	Plaster	0.3	NA	NA
178	Tan	Courthouse	Room 22	Wall C	Plaster	0	NA	NA
179	Tan	Courthouse	Room 22	Wall D	Wood paneling	0.2	NA	NA
180	White	Courthouse	Room 23	Wall A	Plaster	0.2	NA	NA
181	White	Courthouse	Room 23	Wall B	Plaster	0.1	NA	NA
182	White	Courthouse	Room 23	Wall C	Plaster	0.1	NA	NA
183	White	Courthouse	Room 23	Wall D	Plaster	0.1	NA	NA
184	Blue	Courthouse	Room 23	Wall D	Plaster	0.2	NA	NA
185	White	Courthouse	Hallway 4	Wall A	Plaster	0	NA	NA
186	Beige	Courthouse	Hallway 4	Wall A	Plaster	0.2	NA	NA
187	White	Courthouse	Hallway 4	Wall B	Drywall	0.1	NA	NA
188	Beige	Courthouse	Hallway 4	Wall B	Plaster	0.2	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
189	Beige	Courthouse	Hallway 4	Wall C	Plaster	0.5	NA	NA
190	Beige	Courthouse	Hallway 4	Wall D	Cinder block	0.3	NA	NA
191	Beige	Courthouse	Hallway 4	Wall D	Plaster	0.4	NA	NA
192	Cream	Courthouse	Room 24	Wall A	Plaster	0.1	NA	NA
193	Cream	Courthouse	Room 24	Wall B	Plaster	0.3	NA	NA
194	Cream	Courthouse	Room 24	Wall C	Plaster	0.4	NA	NA
195	Cream	Courthouse	Room 24	Wall D	Plaster	0.2	NA	NA
196	White	Courthouse	Room 24	Built-in shelving, wall D	Wood	0	NA	NA
197	White	Courthouse	Room 24	Window apron below built-in shelving, wall D	Wood	0	NA	NA
198	White	Courthouse	Room 26	Wall A	Plaster	0.2	NA	NA
199	White	Courthouse	Room 26	Wall B	Plaster	0.4	NA	NA
200	White	Courthouse	Room 26	Wall C	Plaster	0.6	NA	NA
201	White	Courthouse	Room 26	Baseboard, wall C	Wood	0.1	NA	NA
202	White	Courthouse	Room 26	Wall D	Wood paneling	0	NA	NA
203	White	Courthouse	Room 26	Door, wall D	Wood	0	NA	NA
204	White	Courthouse	Room 26	Baseboard, wall A	Wood	0.1	NA	NA
205	White	Courthouse	Room 26	Ceiling	Ceiling tile	0	NA	NA
206	Gray	Courthouse	Room 26	Floor	Wood	0.2	NA	NA
207	Cream	Courthouse	Room 25	Wall A	Plaster	0.2	NA	NA
208	Cream	Courthouse	Room 25	Wall C	Plaster	0.6	NA	NA
209	Cream	Courthouse	Room 25	Wall D	Plaster	0	NA	NA
210	Cream	Courthouse	Room 25	Baseboard, wall A	Wood	0.1	NA	NA
211	Gray	Courthouse	Room 25	Floor	Wood	0.1	NA	NA
212	Light gray	Courthouse	Room 27	Wall A	Plaster	0.2	NA	NA
213	Light gray	Courthouse	Room 27	Wall B	Plaster	0.3	NA	NA
214	Light gray	Courthouse	Room 27	Wall C	Plaster	0.3	NA	NA
215	Light gray	Courthouse	Room 27	Wall D	Plaster	0.3	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
216	White	Courthouse	Back entrance	Wall A	Plaster	0.4	NA	NA
217	White	Courthouse	Back entrance	Baseboard, wall A	Wood	0.1	NA	NA
218	White	Courthouse	Back entrance	Windowsill, wall A	Wood	0.1	NA	NA
219	White	Courthouse	Back entrance	Window frame, wall A	Wood	0	NA	NA
220	White	Courthouse	Back entrance	Window sash, wall A	Wood	0.1	NA	NA
221	White	Courthouse	Back entrance	Wall D	Plaster	0.2	NA	NA
222	White	Courthouse	Back entrance	Wall A	Plaster	0.1	NA	NA
223	White	Courthouse	Back entrance	Wall B	Plaster	0.2	NA	NA
224	White	Courthouse	Back entrance	Baseboard, wall B	Wood	0.1	NA	NA
225	Cream	Courthouse	Room 31	Wall A	Plaster	0.2	NA	NA
226	Cream	Courthouse	Room 31	Wall B	Wood paneling	0.1	NA	NA
227	White	Courthouse	Room 31	Window cut out, wall B	Wood	0.1	NA	NA
228	**Cream**	**Courthouse**	**Room 31**	**Vault wall C**	**Cement brick**	**1.6**	**No**	**~ 40 SF**
229	**Cream**	**Courthouse**	**Room 31**	**Vault wall C**	**Cement brick**	**2.3**	**No**	**~ 40 SF**
230	**Cream**	**Courthouse**	**Room 31**	**Vault wall C**	**Cement brick**	**2.6**	**No**	**~ 40 SF**
231	Cream	Courthouse	Room 31	Wall C, east of vault	Plaster	.4	NA	NA
232	Cream	Courthouse	Room 31	Wall D	Plaster	0.1	NA	NA
233	Gray	Courthouse	Room 32	Floor	Concrete	0.3	NA	NA
234	White	Courthouse	Room 28	Wall A	Wood paneling	0.1	NA	NA
235	White	Courthouse	Room 28	Ceiling	Plaster	0.3	NA	NA
236	White	Courthouse	Room 28	Wall B	Wood paneling	0.5	NA	NA
237	White	Courthouse	Room 28	Wall B	Plaster	0	NA	NA
238	White	Courthouse	Room 28	Wall C	Wood paneling	0.2	NA	NA
239	White	Courthouse	Room 28	Wall D	Wood paneling	0	NA	NA
240	White	Courthouse	Room 29	Wall A	Plaster	0.1	NA	NA
241	White	Courthouse	Room 29	Wall B	Plaster	0.1	NA	NA
242		Courthouse				NULL	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
243	White	Courthouse	Room 29	Wall C	Plaster	0.1	NA	NA
244	White	Courthouse	Room 29	Wall D	Plaster	0.3	NA	NA
245	Gray	Courthouse	Room 29	Floor	Concrete	0.1	NA	NA
246	Cream	Courthouse	Room 30	Wall A	Plaster	0.2	NA	NA
247	Cream	Courthouse	Room 30	Wall B	Wood paneling	0.6	NA	NA
248	Cream	Courthouse	Room 30	Window cutout, wall B	Composite board	0.2	NA	NA
249	Cream	Courthouse	Room 30	Wall C	Plaster	0.1	NA	NA
250	Cream	Courthouse	Room 30	Wall D	Plaster	0.4	NA	NA
251	Beige	Courthouse	Hallway 3	Wall A	Drywall	0	NA	NA
252	Beige	Courthouse	Hallway 3	Wall B	Plaster	0	NA	NA
253	Beige	Courthouse	Hallway 3	Wall C	Plaster	0.2	NA	NA
254	Beige	Courthouse	Hallway 3	Wall D	Plaster	0.1	NA	NA
255		Courthouse				NULL	NA	NA
256	White	Courthouse	Hallway 3	Wall D	Drywall	0.1	NA	NA
257	White	Courthouse	Hallway 3	Window frame, wall D	Wood	0.1	NA	NA
258	White	Courthouse	Hallway 3	Door jamb, wall D	Wood	0	NA	NA
259	Off-white	Courthouse	Room 35	Wall A	Plaster	0.1	NA	NA
260	Off-white	Courthouse	Room 35	Wall B	Plaster	0.1	NA	NA
261		Courthouse				NULL	NA	NA
262	Off-white	Courthouse	Room 35	Wall C	Plaster	0.4	NA	NA
263	Off-white	Courthouse	Room 34	Wall B	Plaster	0.2	NA	NA
264	Off-white	Courthouse	Room 34	Wall C	Drywall	0.1	NA	NA
265	Off-white	Courthouse	Room 34	Wall D	Plaster	0.1	NA	NA
266	Off-white	Courthouse	Room 33	Wall A	Plaster	0	NA	NA
267	**Off-white**	**Courthouse**	**Room 33**	**Wall B, middle of wall**	**Plaster**	**2.5**	**No**	**~ 50 SF**
268	Off-white	Courthouse	Room 33	Wall B, lower part of wall	Plaster	0.3	NA	NA
269	**Off-white**	**Courthouse**	**Room 33**	**Wall B, high part of wall**	**Plaster**	**3**	**No**	**~ 50 SF**

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
270	**Off-white**	**Courthouse**	**Room 33**	**Wall B, high part of wall**	**Plaster**	**2.1**	**No**	**~ 50 SF**
271	Off-white	Courthouse	Room 33	Wall B, low part of wall	Plaster	0.4	NA	NA
272	Off-white	Courthouse	Room 33	Wall C	Plaster	0	NA	NA
273	Off-white	Courthouse	Room 33	Wall D	Plaster	0.2	NA	NA
274	Beige	Courthouse	Entrance base.	Wall D	Plaster	0.1	NA	NA
275	Beige	Courthouse	Entrance base.	Wall C	Plaster	0.1	NA	NA
276	Beige	Courthouse	Entrance base.	Wall B	Beige	0	NA	NA
277	Beige	Courthouse	Entrance base.	Door trim, wall C	Beige	0.1	NA	NA
278	Pink	Courthouse	Waiting room	Wall A	Pink	0	NA	NA
279	Pink	Courthouse	Waiting room	Wall B	Pink	0.2	NA	NA
280	Blue	Courthouse	Clinic	Wall A	Blue	0	NA	NA
281	White	Courthouse	Clinic	Wall B	White	0.1	NA	NA
282	White	Courthouse	Clinic	Wall C	Drywall	0.1	NA	NA
283	Blue	Courthouse	Clinic office	Wall A	Drywall	0.1	NA	NA
284	Pink	Courthouse	Clinic office	Wall D	Drywall	0.1	NA	NA
285	Pink	Courthouse	Clinic office	Wall C	Drywall	0.1	NA	NA
286	White	Courthouse	Clinic office	Baseboard, wall C	Wood	0.1	NA	NA
287	Pink	Courthouse	Play area	Wall B	Wood paneling	0	NA	NA
288	Pink	Courthouse	Play area	Wall C	Drywall	0	NA	NA
289	Pink	Courthouse	Play area	Wall A	Drywall	0.2	NA	NA
290	Yellow	Courthouse	Storage	Wall A	Drywall	0.1	NA	NA
291	Yellow	Courthouse	Storage	Wall C	Concrete	0.1	NA	NA
292	Yellow	Courthouse	Storage	Wall D	Drywall	0	NA	NA
293	Blue	Courthouse	Kitchen	Wall C	Drywall	0.1	NA	NA
294	Blue	Courthouse	Kitchen	Wall D	Drywall	0	NA	NA
295	Pink	Courthouse	Living space	Wall C	Drywall	0.1	NA	NA
296	Pink	Courthouse	Living space	Wall A	Drywall	0	NA	NA

XRF Screening No.	Paint Color	Building	Location	Component	Substrate	XRF Reading (mg/cm^2)	Damaged (Yes/No)	Quantity
297	Pink	Courthouse	Kitchen	Wall D	Drywall	0.1	NA	NA
298	Pink	Courthouse	Vault 2	Wall A	Plaster	0	NA	NA
299	Pink	Courthouse	Vault 2	Wall B	Plaster	0	NA	NA
300	Pink	Courthouse	Rec room	Wall C	Drywall	0.1	NA	NA
301	Pink	Courthouse	Rec room	Wall B	Drywall	0	NA	NA
302	Blue	Courthouse	Rec room closet	Wall A	Plaster	0.2	NA	NA
303	Blue	Courthouse	Rec room closet	Wall B	Drywall	0.1	NA	NA
304	**White**	**Courthouse**	**Exterior- west**	**Window frame, wall A**	**Wood**	**1.4**	**Yes**	**~ 15 SF**
305	**White**	**Courthouse**	**Exterior- west**	**Window sash, wall A**	**Wood**	**2.6**	**Yes**	**~ 15 SF**
306	White	Courthouse	Exterior- west	Window trim, wall A	Wood	0.4	NA	NA
307	**White**	**Courthouse**	**Exterior- west**	**Windowsill, wall A**	**Wood**	**1.4**	**Yes**	**~ 15 SF**
308	**White**	**Courthouse**	**Exterior- west**	**Window trim, wall A**	**Wood**	**5**	**Yes**	**~ 15 SF**
309	White	Courthouse	Exterior- east	Windowsill, wall A	Wood	0.2	NA	NA
310	**White**	**Courthouse**	**Exterior- east**	**Window frame, wall A**	**Wood**	**5.8**	**Yes**	**~ 15 SF**
311	**White**	**Courthouse**	**Exterior- east**	**Window sash, wall A**	**Wood**	**7**	**Yes**	**~ 15 SF**
312	**White**	**Courthouse**	**Exterior- east**	**Window trim, wall A**	**Wood**	**6.8**	**Yes**	**~ 15 SF**
313	Gray	Courthouse	Exterior	Door, wall C	Wood	0	NA	NA
314	**White**	**Courthouse**	**Exterior**	**Window trim, wall D**	**Wood**	**3.4**	**Yes**	**~ 15 SF**
315	**White**	**Courthouse**	**Exterior**	**Window trim, wall D**	**Wood**	**3**	**Yes**	**~ 15 SF**

Notes:

Bolded and orange-shaded results indicate that LBP was detected.

[1] Walls are identified based on their cardinal directions (A=north, B=east, C=south, D=west).

[2] This column identifies damaged LBP surfaces. If no damage is present before renovation activities, preliminary removal of chipping and peeling paint is not necessary prior to the encapsulation process.

~ Approximately
LBP Lead-based paint
mg/cm^2 Milligram per square centimeter
NA Not applicable
REC Recreation
XRF X-ray fluorescence

3.2 SUB-SLAB SOIL VAPOR

Appendix E presents the analytical report of the soil vapor sample results, chain-of-custody documentation, and data validation report. All analytes detected in at least one sample are listed in Table 3Table . Analytical results from sub-slab soil vapor samples were compared to the EPA residential and commercial vapor intrusion screening levels (VISL) for Target Sub-Slab and Near-Source Soil vapor Concentration with a target excess cancer risk level of $1x10^{-6}$ and a target hazard quotient of 1.0. The sample locations appear on Figure 3 in Appendix A.

No detected VOC concentration exceeded the residential or commercial EPA VISL for sub-slab soil gas concentrations.

Table 3: Summary of Sub-Slab Soil Vapor Analytical Results

Analyte	CAS Number	Residential EPA VISL (µg/m³)	Commercial EPA VISL (µg/m³)	Sample Concentration by Location			
				PC-SG-01 (µg/m³)	PC-SG-02 (µg/m³)	PC-SG-03 (µg/m³)	PC-SG-03-DUP (µg/m³)
1,1,1-Trichloroethane	71-55-6	174,000	730,000	0.67 U	0.78 U	0.84 U	0.79 U
1,1,2,2-Tetrachloroethane	79-34-5	1.61	7.05	0.67 U	0.78 U	0.84 U	0.79 U
1,1,2-Trichloroethane	79-00-5	5.85	25.6	0.67 U	0.78 U	0.84 U	0.79 U
1,1-Dichloroethane	75-34-3	58.5	256	0.68 U	0.8 U	0.86 U	0.81 U
1,1-Dichloroethene	75-35-4	6,950	29,200	0.69 U	0.81 U	0.87 U	0.82 U
1,2,4-Trichlorobenzene	120-82-1	69.5	292	1.4 U	1.7 U	1.8 U	1.7 U
1,2,4-Trimethylbenzene	95-63-6	2,090	8,760	0.67 U	14	4.8	5.1
1,2-Dibromoethane (EDB)	106-93-4	0.156	0.681	0.67 U	0.78 U	0.84 U	0.79 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	2,780,000	11,700,000	0.69 U	0.81 U	0.87 U	0.82 U
1,2-Dichlorobenzene	95-50-1	6,950	29,200	0.68 U	0.8 U	0.86 U	0.81 U
1,2-Dichloroethane	107-06-2	3.6	15.7	0.68 U	0.8 U	0.86 U	0.81 U
1,2-Dichloropropane	78-87-5	25.3	110	0.64 U	0.71 J	0.81 U	0.76 U
1,3,5-Trimethylbenzene	108-67-8	2,090	8,760	0.67 U	7	2.1	2.2
1,3-Dichlorobenzene	541-73-1	--	--	0.67 U	0.78 U	0.84 U	0.79 U
1,4-Dichlorobenzene	106-46-7	8.51	37.2	0.67 U	0.78 U	0.84 U	0.79 U
1,4-Dioxane	123-91-1	18.7	81.8	0.67 U	0.26 J	0.23 J	0.28 J
2-Butanone (MEK)	78-93-3	174,000	730,000	1.3 U	20 B	5.2 B	7.4 B

Table 3: Summary of Sub-Slab Soil Vapor Detections (Continued)

Analyte	CAS Number	Residential EPA VISL (µg/m³)	Commercial EPA VISL (µg/m³)	Sample Concentration by Location			
				PC-SG-01 (µg/m³)	PC-SG-02 (µg/m³)	PC-SG-03 (µg/m³)	PC-SG-03-DUP (µg/m³)
Isopropyl alcohol	67-63-0	6,950	29,200	1.3 U	110	48	58
4-Methyl-2-pentanone (MIBK)	108-10-1	104,000	438,000	1.4 U	5.6	2.5	2.9
Acetone	67-64-1	1,070,000	4,510,000	6.7 U	500	57	120
Benzene	71-43-2	12	52.4	0.64 U	7.8	4.4	4.4
Benzyl chloride	100-44-7	1.91	8.34	1.4 U	1.7 U	1.8 U	1.7 U
Bromodichloromethane	75-27-4	2.53	11	0.68 U	0.8 U	0.86 U	0.81 U
Bromoform	75-25-2	85.1	372	0.67 U	0.78 U	0.84 U	0.79 U
Bromomethane	74-83-9	174	730	0.65 U	0.77 U	0.83 U	0.78 U
Carbon disulfide	75-15-0	24,300	102,000	1.4 U	3.1	3.2	4.2
Carbon tetrachloride	56-23-5	15.6	68.1	0.64 U	0.33 J	0.3 J	0.33 J
Chlorobenzene	108-90-7	1,740	7,300	0.67 U	0.23 J	0.57 J	0.6J
Chloroethane	75-00-3	348,000	1,460,000	0.65 U	0.77 U	0.83 U	0.78 U
Chloroform	67-66-3	4.07	17.8	0.69 U	0.3 J	0.87 U	0.11 J
Chloromethane	74-87-3	3,130	13,100	0.65 U	0.77 U	0.83 U	0.78 U
cis-1,2-Dichloroethene	156-59-2	--	--	0.67 U	0.78 U	0.84 U	0.79 U
cis-1,3-Dichloropropene	10061-01-5	23.4	102	0.64 U	0.75 U	0.81 U	0.76 U
Cyclohexane	110-82-7	209,000	876,000	1.4 U	11	7.3	8.1
Dibromochloromethane	124-48-1	--	--	0.68 U	0.8 U	0.86 U	0.81 U
Dichlorodifluoromethane	75-71-8	3,480	14,600	0.68 U	2.2	2.2	2.2
Methylene Chloride	75-09-2	3,380	40,900	0.67 U	2.2	0.84 U	0.4 J
Ethylbenzene	100-41-4	37.4	164	0.67 U	7.6	2.2	3
Hexachlorobutadiene	87-68-3	4.25	18.6	0.67 U	0.78 U	0.84 U	0.79 U
Hexane	110-54-3	24,300	102,000	0.68 U	14	5.9	6.1
m-Xylene & p-Xylene	179601-23-1	3,480	14,600	1.4 U	42	8.9	12
Methyl tert-butyl ether	1634-04-4	360	1,570	0.68 U	0.8 U	0.86 U	0.81 U
Naphthalene	91-20-3	2.75	12	0.67 U	1.2	0.7 J	0.79 J

Table 3: Summary of Sub-Slab Soil Vapor Detections (Continued)

Analyte	CAS Number	Residential EPA VISL (µg/m^3)	Commercial EPA VISL (µg/m^3)	Sample Concentration by Location			
				PC-SG-01 (µg/m^3)	PC-SG-02 (µg/m^3)	PC-SG-03 (µg/m^3)	PC-SG-03-DUP (µg/m^3)
o-Xylene	95-47-6	3,480	14,600	0.67 U	16	3	4.2
Styrene	100-42-5	34,800	146,000	0.64 U	2.8	0.22 J	0.63 J
Tetrachloroethene	127-18-4	360	1570	0.67 U	0.66 J	0.29 J	0.27 J
Tetrahydrofuran	109-99-9	69,500	292,000	1.3 U	3.7	0.65 J	0.9 J
Toluene	108-88-3	174,000	730,000	0.22 J	230 D	11	42
trans-1,2-Dichloroethene	156-60-5	1,390	5,840	0.68 U	0.76 J	0.86 U	0.12 J
trans-1,3-Dichloropropene	10061-02-6	23.4	102	0.65 U	0.77 U	0.83 U	0.78 U
Trichloroethene	79-01-6	15.9	99.7	0.67 U	0.78 U	0.13 J	0.19 J
Trichlorofluoromethane	75-69-4	--	--	0.67 U	1.1	1.2	1.2
Vinyl chloride	75-01-4	6,950	29,200	0.67 U	0.78 U	0.84 U	0.79 U

Notes:

VISLs are for sub-slab soil vapor for a residential and commercial scenario and are based on a target excess cancer risk level of 10^{-6} and a target hazard quotient of 1.0.

µg/m^3	Microgram per cubic meter
B	Analyte detected in both the sample and associated method blank
EPA	U.S. Environmental Protection Agency
J	Concentration is estimated
U	Analyte not detected
VISL	Vapor intrusion screening level

3.3 INDOOR AND AMBIENT AIR

Indoor and ambient air analytical results are listed in Table 4. Analytical results from indoor and ambient air samples were compared to the EPA residential and commercial VISLs for indoor air with a target excess cancer risk level of $1x10^{-6}$ and a target hazard quotient of 1.0. Sample locations appear on Figure 3 through 5 in Appendix A. Appendix E presents the analytical report, chain-of-custody documentation, and data validation report.

- 1,2-Dichloroethane was detected at a concentration above the EPA VISL for residential indoor air in one sample (PC-IA-01).
- Benzene was detected at concentrations above the EPA VISL for residential indoor air in all five samples.
- Ethylbenzene was detected in one sample (PC-AMB-01) at concentrations above the EPA VISL for residential indoor air.

Table 4: Summary of Indoor and Ambient Air Analytical Results

Analyte	CAS Number	Residential EPA VISL (µg/m³)	Commercial EPA VISL (µg/m³)	Sample Concentration by Location				
				PC-ABM-01 (µg/m³)	PC-IA-01 (µg/m³)	PC-IA-02 (µg/m³)	PC-IA-02-DUP (µg/m³)	PC-IA-03 (µg/m³)
1,1,1-Trichloroethane	71-55-6	5,210	21,900	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
1,1,2,2-Tetrachloroethane	79-34-5	0.175	0.211	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
1,1,2-Trichloroethane	79-00-5	0.175	0.767	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
1,1-Dichloroethane	75-34-3	1.75	7.67	0.81 U	0.8 U	0.81 U	0.77 U	0.79 U
1,1-Dichloroethene	75-35-4	--	--	0.83 U	0.82 U	0.83 U	0.79 U	0.8 U
1,2,4-Trichlorobenzene	120-82-1	2.09	8.76	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U
1,2,4-Trimethylbenzene	95-63-6	6.26	263	0.47 J	0.23 J	0.4 J	0.32 J	0.26 J
1,2-Dibromoethane (EDB)	106-93-4	1.75	7.67	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	83,400	350,000	0.83 U	0.82 U	0.83 U	0.79 U	0.8 U
1,2-Dichlorobenzene	95-50-1	209	876	0.81 U	0.8 U	0.81 U	0.77 U	0.79 U
1,2-Dichloroethane	107-06-2	0.108	0.472	0.099 J	**0.11 J**	0.81 U	0.77 U	0.79 U
1,2-Dichloropropane	78-87-5	0.759	3.31	0.17 J	0.76 U	0.15 J	0.73 U	0.75 U
1,3,5-Trimethylbenzene	108-67-8	62.6	263	0.12 J	0.79 U	0.8 U	0.76 U	0.77 U
1,3-Dichlorobenzene	541-73-1	--	--	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U

Table 4: Summary of Indoor Air Analytical Results (Continued)

Analyte	CAS Number	Residential EPA VISL (µg/m³)	Commercial EPA VISL (µg/m³)	Sample Concentration by Location				
				PC-ABM-01 (µg/m³)	PC-IA-01 (µg/m³)	PC-IA-02 (µg/m³)	PC-IA-02-DUP (µg/m³)	PC-IA-03 (µg/m³)
1,4-Dichlorobenzene	106-46-7	0.255	1.11	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
1,4-Dioxane	123-91-1	0.562	2.45	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
2-Butanone (MEK)	78-93-3	5,210	21,900	5.7 B	1.4 J,B	6 B	1.3 J,B	1.2 J,B
Isopropyl alcohol	67-63-0	--	--	11	180	74	69	13
4-Methyl-2-pentanone (MIBK)	108-10-1	3,130	13,100	0.92 J	1.7 U	0.85 J	0.35 J	0.12 J
Acetone	67-64-1	--	--	130	19	29	15	13
Benzene	71-43-2	0.360	1.57	**0.5 J**	**0.44 J**	**0.46 J**	**0.54 J**	**0.45 J**
Benzyl chloride	100-44-7	0.0573	0.25	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U
Bromodichloromethane	75-27-4	0.0759	0.331	0.81 U	0.8 U	0.81 U	0.77 U	0.79 U
Bromoform	75-25-2	2.55	11.1	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
Bromomethane	74-83-9	5.21	21.9	0.78 U	0.77 U	0.78 U	0.74 U	0.76 U
Carbon disulfide	75-15-0	730	3,070	0.35 J	1.7 U	0.42 J	1.6 U	1.6 U
Carbon tetrachloride	56-23-5	0.468	2.04	0.42 J	0.43 J	0.41 J	0.41 J	0.43 J
Chlorobenzene	108-90-7	52.1	219	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
Chloroethane	75-00-3	--	--	0.78 U	0.77 U	0.78 U	0.74 U	0.76 U
Chloroform	67-66-3	0.122	0.533	0.83 U	0.82 U	0.83 U	0.79 U	0.8 U
Chloromethane	74-87-3	93.9	394	0.44 J	0.43 J	0.47 J	0.45 J	0.46 J
cis-1,2-Dichloroethene	156-59-2	--	--	0.8 U	0.79U	0.8 U	0.76 U	0.77 U
cis-1,3-Dichloropropene	10061-01-5	0.072	3.07	0.77 U	0.76 U	0.77 U	0.73 U	0.75 U
Cyclohexane	110-82-7	6,260	26,300	2.3	1.7 U	1.2 J	0.29 J	1.6 U
Dibromochloromethane	124-48-1	--	--	0.81 U	0.8 U	0.81 U	0.77 U	0.79 U
Dichlorodifluoromethane	75-71-8	104	438	2.3	2.2	2.3	2.1	2.3
Methylene Chloride	75-09-2	101	1,230	0.79 J	0.34 J	0.45 J	0.29 J	0.25 J
Ethylbenzene	100-41-4	1.12	4.91	**1.4**	0.18 J	0.94	0.33 J	0.14 J
Hexachlorobutadiene	87-68-3	0.128	0.557	0.8 U	0.79 U	0.8 U	0.76 U	0.77 U
Hexane	110-54-3	730	3,070	0.64 J	0.39 J	2.4	0.96	0.41 J
m-Xylene & p-Xylene	179601-23-1	104	438	4.5	0.54 J	2.7	0.93 J	0.45 J
Methyl tert-butyl ether	1634-04-4	10.8	47.2	0.81 U	0.8 U	0.81 U	0.77 U	0.79 U

Table 4: Summary of Indoor Air Analytical Results (Continued)

Analyte	CAS Number	Residential EPA VISL (µg/m³)	Commercial EPA VISL (µg/m³)	Sample Concentration by Location				
				PC-ABM-01 (µg/m³)	PC-IA-01 (µg/m³)	PC-IA-02 (µg/m³)	PC-IA-02-DUP (µg/m³)	PC-IA-03 (µg/m³)
Naphthalene	91-20-3	101	1,230	0.8 U	1.1	0.27 J	0.43 J	0.32 J
o-Xylene	95-47-6	0.0826	0.361	2.2	0.23 J	1.5	0.35 J	0.19 J
Styrene	100-42-5	104	438	0.78	0.21 J	0.5 J	0.21 J	0.19 J
Tetrachloroethene	127-18-4	1,040	4,380	0.16 J	0.79 U	0.8 U	0.76 U	0.77U
Tetrahydrofuran	109-99-9	--	--	0.46 J	1.5 U	1 J	1.5 U	1.5 U
Toluene	108-88-3	5,210	21,900	55	1.2	14	2	1.1
trans-1,2-Dichloroethene	156-60-5	--	--	0.21 J	0.8 U	0.14 J	0.77 U	0.79 U
trans-1,3-Dichloropropene	10061-02-6	0.702	3.07	0.78 U	0.77 U	0.78 U	0.74 U	0.76 U
Trichloroethene	79-01-6	--	--	0.8 U	0.79 U	0.2 J	0.76 U	0.77 U
Trichlorofluoromethane	75-69-4	--	--	1.1	1.2	1.1	1.1	1.1
Vinyl chloride	75-01-4	0.50	0.168	0.8 U	0.79U	0.8 U	0.76 U	0.77 U

Notes:

VISLs are for indoor air for a residential and commercial scenario and are based on a target excess cancer risk level of 10^{-6} and a target hazard quotient of 1.0.

µg/m³	Microgram per cubic meter
B	Analyte detected in both the sample and associated method blank
EPA	U.S. Environmental Protection Agency
J	Concentration is estimated
U	Analyte not detected
VISL	Vapor intrusion screening level

4.0 CONCLUSIONS AND RECOMMENDATIONS

START V presents the following conclusions and recommendations based on observations made during the surveys, sampling events, and analytical results from samples collected at the subject property.

4.1 HAZARDOUS MATERIALS SURVEY

4.1.1 Asbestos-Containing Material

ACM was identified in the building at the subject property as identified in Table 1. Regulated ACM was identified in the following areas:

- Roofing mastic (approximately 25 square feet [SF]) on the exterior roof of stairway to basement at the north exit of the subject property building. The mastic was represented by samples PCC-RM-1-A and C. Laboratory results indicated that the mastic contained between 3.25 and 4 percent chrysotile asbestos.
- A 9-inch-by-9-inch blue vinyl floor tile (approximately 75 SF) in the admittance area, 2nd floor sheriff storage room, sheriff office, Christmas room, and 1st floor jury room of the subject property building. The floor tile was represented by samples PCC-FT-02-A, B, and C. Laboratory results indicated that the tile contained between 1.75 and 2.25 percent chrysotile asbestos.
- A 9-inch-by-9-inch green vinyl floor tile (approximately 160 SF) in the 2nd floor sheriff office of the subject property building. The floor tile was represented by samples PCC-FT-04-A, B, and C. Laboratory results indicated that the tile contained between 2.0 and 2.75 percent chrysotile asbestos.

Trace asbestos (<1 percent) was identified in the following areas:

- Window glazing (approximately 100 liner feet [LF]) exterior of the north side windows of the subject property building. The glazing was represented by samples PCC-WG-01-A, B, and C. Laboratory results indicated that the glazing contained between 0.50 and 0.75 percent chrysotile asbestos.
- Roof insulation (vermiculite) (approximately 1,500 SF) in the roof insulation of the subject property building. The insulation was represented by samples PCC-TSI-B, C, and E. Laboratory results indicated the insulation contained <1 percent chrysotile asbestos.

All regulated ACM should be removed by a licensed asbestos abatement contractor before renovation or demolition work disturbs the material. The removed waste must be disposed of in accordance with state and local regulations.

4.1.2 Lead-Based Paint

Various colors of LBP were detected throughout the subject property as identified in Table 2. LBP was identified in the following areas:

- Approximately 96 SF of white paint on the wood skylight frame in room 6 of the subject property building.
- Approximately 40 SF of cream paint on the cement brick wall of the vault of the subject property building.

- Approximately 50 SF of off-white paint on the plaster wall in room 33 of the subject property building.
- Approximately 15 LF of white paint per window on the exterior wood window frames, sashes, and trim of the subject property building.

HUD defines LBP as paint with lead levels above 1.0 mg/cm^2. If LBP surfaces are impacted during renovation or demolition, START V recommends that the contractor conducting the renovation comply with OSHA Lead in Construction Standard, Title 29 of *Code of Federal Regulations*, Part 1926.62. LBP debris should be characterized and disposed of in accordance with state and local regulations.

4.2 SOIL VAPOR

No detected VOC concentration exceeded the residential or commercial EPA VISLs for sub-slab soil gas concentrations.

4.3 INDOOR AIR

The VOC 1,2-dichloroethane was detected at a concentration above the EPA VISL for residential indoor air in one sample (PC-IA-01). Benzene was detected at concentrations above the residential but below the commercial EPA VISL for residential indoor air in all five indoor air samples as well as the ambient air sample. Both benzene and ethylbenzene were detected in sub-slab soil vapor samples, however, not above the EPA VISL for residential sub-slab soil vapor.

Because 1,2-dichloroethane was not detected in the sub-slab soil vapor samples, the source of this chemical in indoor air is possibly from material stored within the building. If the area in which 1,2-dichlorothane was detected is planned for occupancy, the source should be determined and mitigated.

5.0 REFERENCES

Asbestos Hazard Emergency Response Act of 1986. 1986. “Asbestos Hazard Emergency Response Act of 1986.” Revised August 2017.

Tetra Tech, Inc. (Tetra Tech) 2022. “Targeted Brownfields Assessment – Phase I Environmental Site Assessment Petroleum County Courthouse.” October.

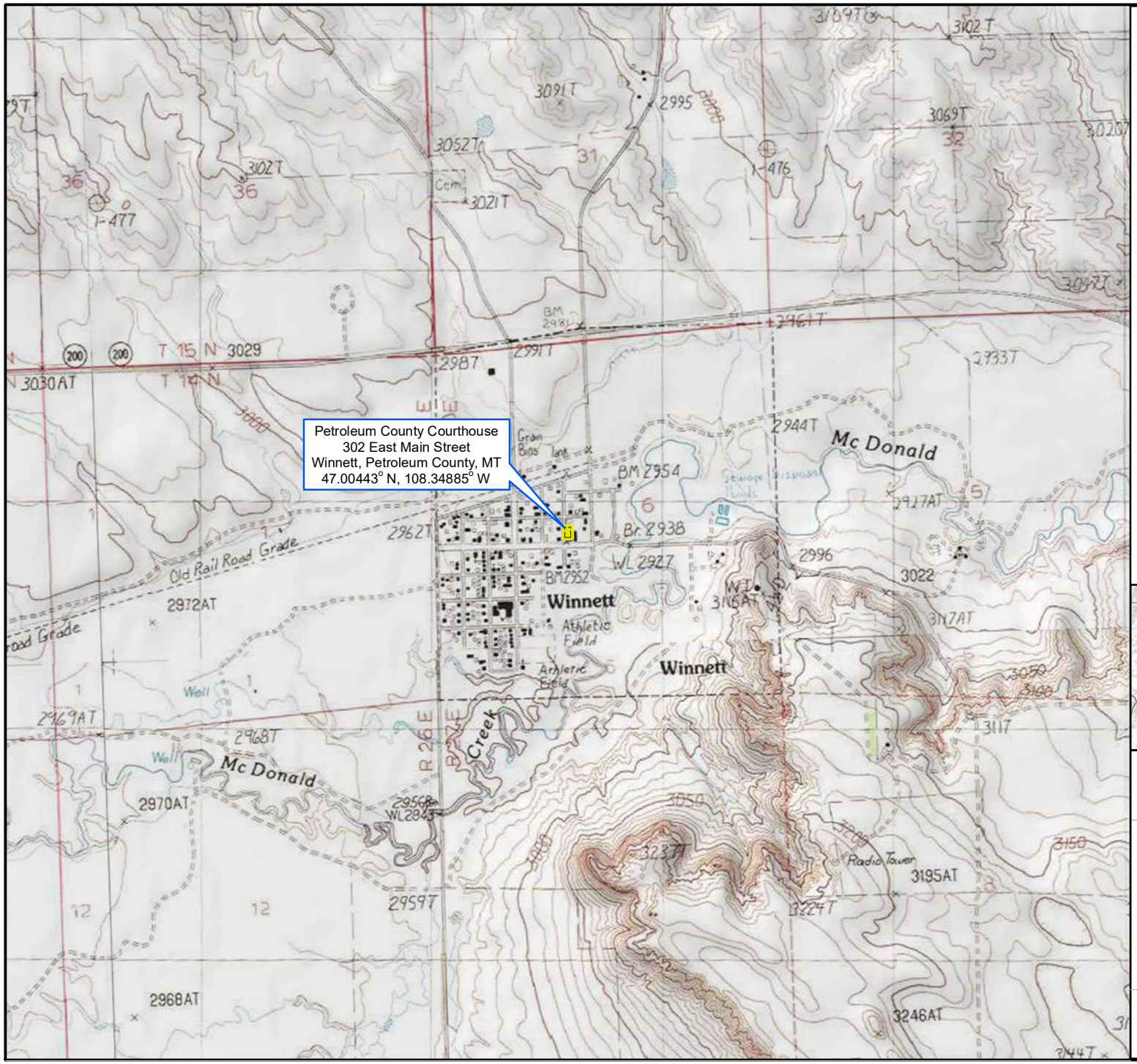
Tetra Tech. 2022. “Laboratory Analytical Data Verification – Minimum Requirements, Standard Operating Procedure No. 203.” Revision No. 2. March.

U.S. Department of Housing and Urban Development. 2012. *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*. Second Edition. July.

U.S. Environmental Protection Agency. 2022b. “Vapor Intrusion Screening Levels Calculator.” Accessed July 22. https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculator.

APPENDIX A: FIGURES

Figure 1: Subject Property Location



Subject Property Boundary

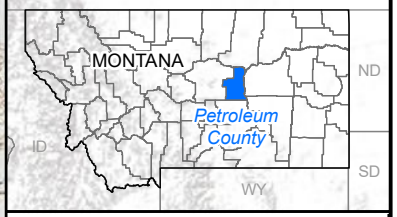
N

0 1,000 2,000

Feet

Note:
Coordinates provided are the geographic center of site boundary shown.

Map Source:
USGS 7.5 Minute Topographic Quadrangle Maps: Winnett North & Winnett South, MT



United States Environmental Protection Agency Region 8

FIGURE 1
Subject Property Location

Site Name: Petroleum County Courthouse

TOLIN No.: 82-2204-12

City:	County:	State:
Winnett	Petroleum	Montana

TETRA TECH

Date: 6/14/2022

Analyst: dale.vonbusch

File: C:\CADD\\9035\0F0082220412\mxd\site_location.mxd

Figure 2: Subject Property Layout

Storm Drain
Pole-Mounted Transformer
Subject Property Boundary

N

0 50 100
Feet

Map Source:
Bing Aerial Imagery, 2018-2019.

United States Environmental Protection Agency Region 8

FIGURE 2

Subject Property Layout

Site Name: Petroleum County Courthouse

TOLIN No.: 82-2204-12

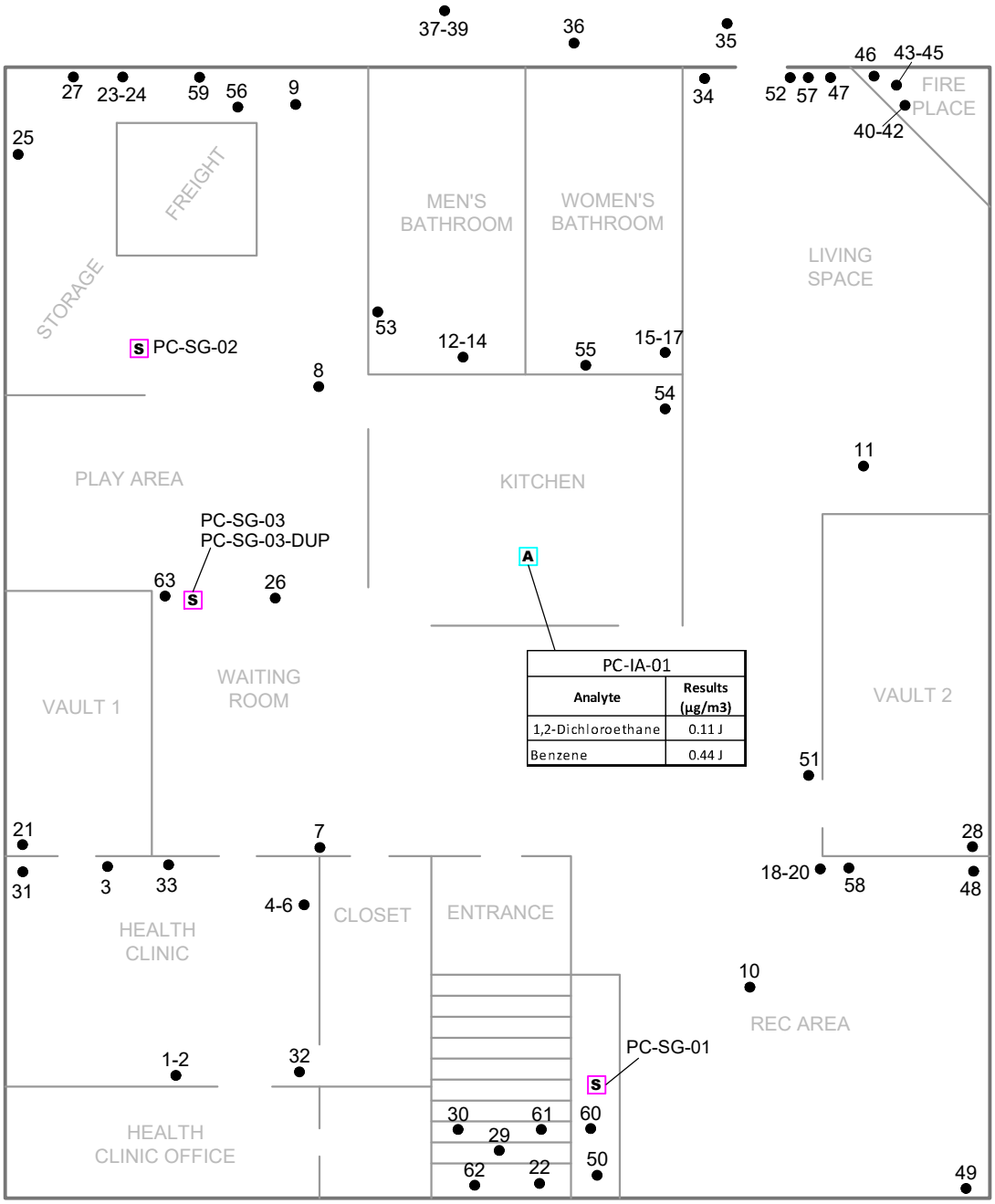
City:	County:	State:
Winnett	Petroleum	Montana

TETRA TECH

Date: 6/15/2022
Analyst: dale.vonbusch

File: C:\CADD\\9035\0F0082220412\mxd\site_layout.mxd

Figure 3: Basement Sample Locations with Indoor Air Exceedances



● SAMPLE LOCATION NON-DETECT ASBESTOS OR <1%

S SUB-SLAB SOIL GAS SAMPLE LOCATION

A INDOOR AIR SAMPLE LOCATION

NOTES:
Air sampling results shown exceed Residential EPA VISL.
(µg/m3) - micrograms per meter cubed

N

NOT TO SCALE

TETRA TECH

Date: 11/10/22
Analyst: DVB

United States Environmental Protection Agency
Region 8

FIGURE 3

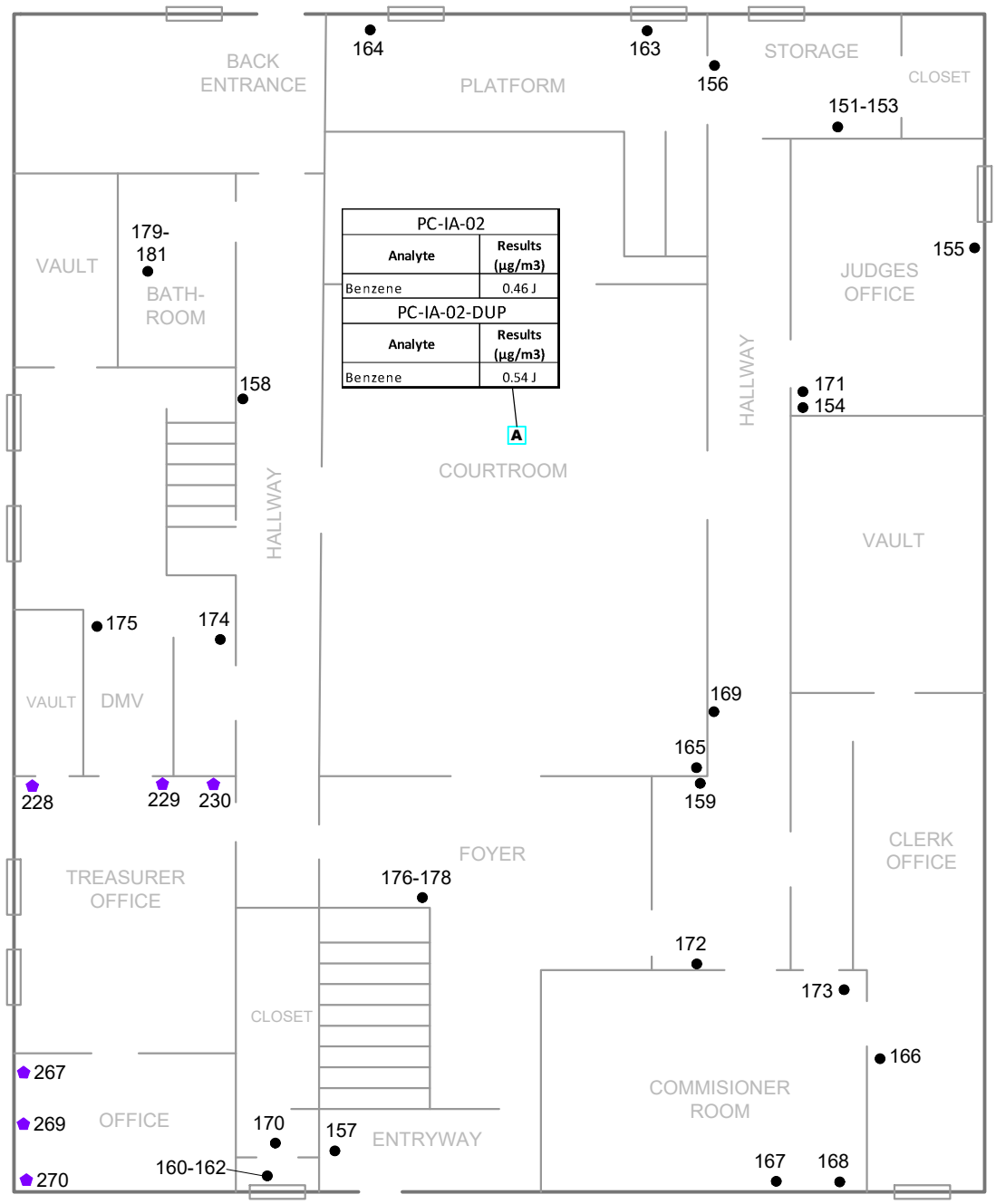
Sampling Locations with Indoor Air Exceedances
Petroleum County Courthouse
Basement

Subject Property: Petroleum County Courthouse
TD No.: 2082-2209-10

City:	County:	State:
Winnet	Petroleum	Montana

C:\CADD\W0350\F0082220412\cad\PETROL_CO_ACM-LBP_20221110_DVB.dwg, 11/10/2022 1:31:38 PM

Figure 4: First Floor Sample and Screening Locations with Indoor Air Exceedances



● SAMPLE LOCATION NON-DETECT ASBESTOS OR <1%

⬟ LEAD-BASED PAINT SCREENING LOCATION > 1 mg/cm^2

A INDOOR AIR SAMPLE LOCATION

NOTES:
Air sampling results shown exceed Residential EPA VISL.
(µg/m3) - micrograms per meter cubed

N

NOT TO SCALE

TETRA TECH

Date: 11/10/22
Analyst: DVB

United States Environmental Protection Agency
Region 8

FIGURE 4

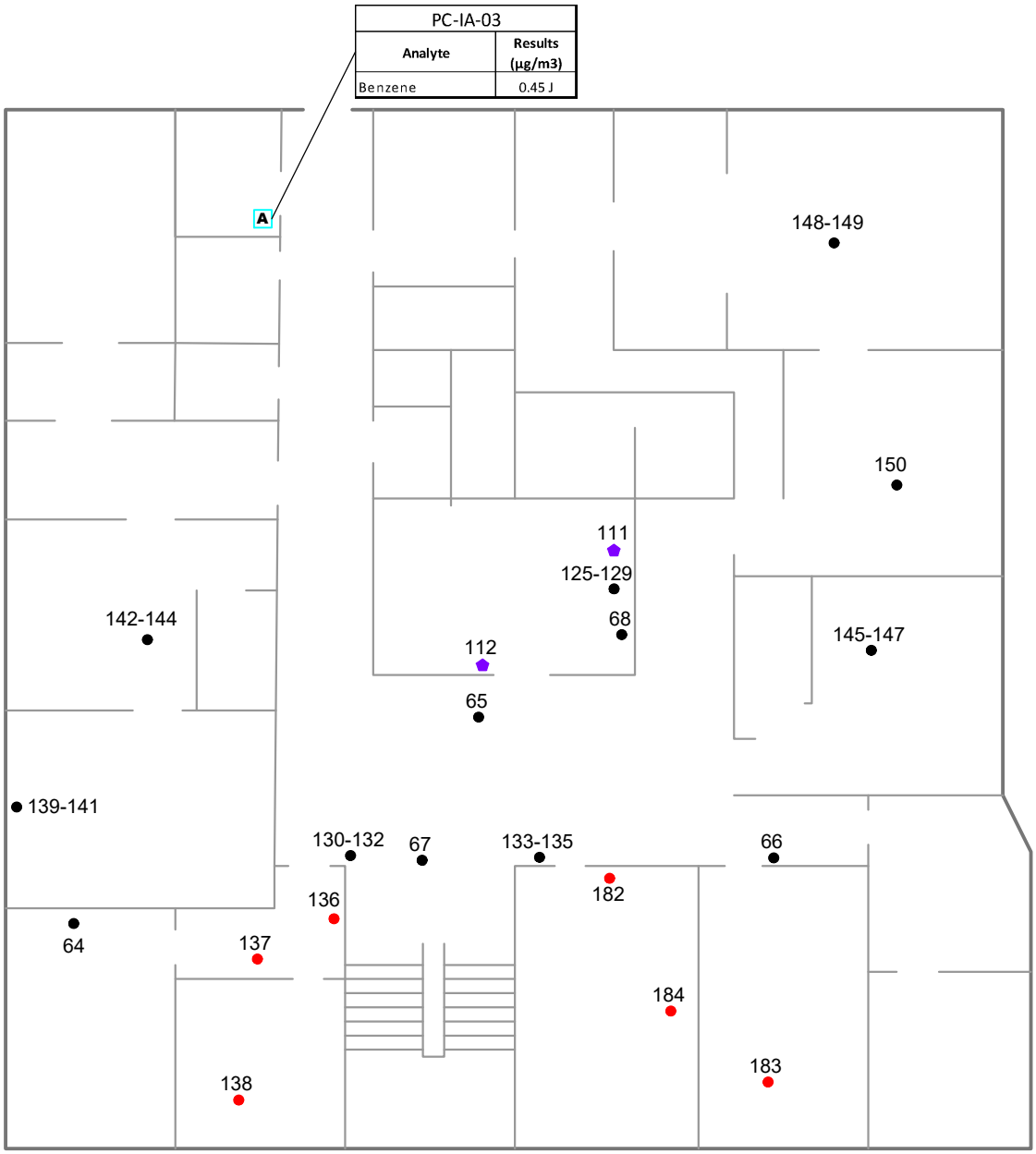
Sampling and Screening Locations with Indoor Exceedances
Petroleum County Courthouse
1st Floor

Subject Property: Petroleum County Courthouse
TD No.: 2082-2209-10

City: Winnet
County: Petroleum
State: Montana

C:\CADD\W0350\F0082220412\cad\PETROL_CO_ACM-LBP_20221110_DVB.dwg, 11/10/2022 1:31:55 PM

Figure 5: Second Floor Sample and Screening Locations with Indoor Air Exceedances



- SAMPLE LOCATION WITH > 1% ASBESTOS DETECTED
- SAMPLE LOCATION NON-DETECT ASBESTOS OR <1%
- LEAD-BASED PAINT SCREENING LOCATION > 1 mg/cm^2
- A INDOOR AIR SAMPLE LOCATION

NOTES:
Air sampling results shown exceed Residential EPA VISL.
(µg/m3) - micrograms per meter cubed

N

NOT TO SCALE

TETRA TECH

Date: 11/10/22
Analyst: DVB

United States Environmental Protection Agency
Region 8

FIGURE 5

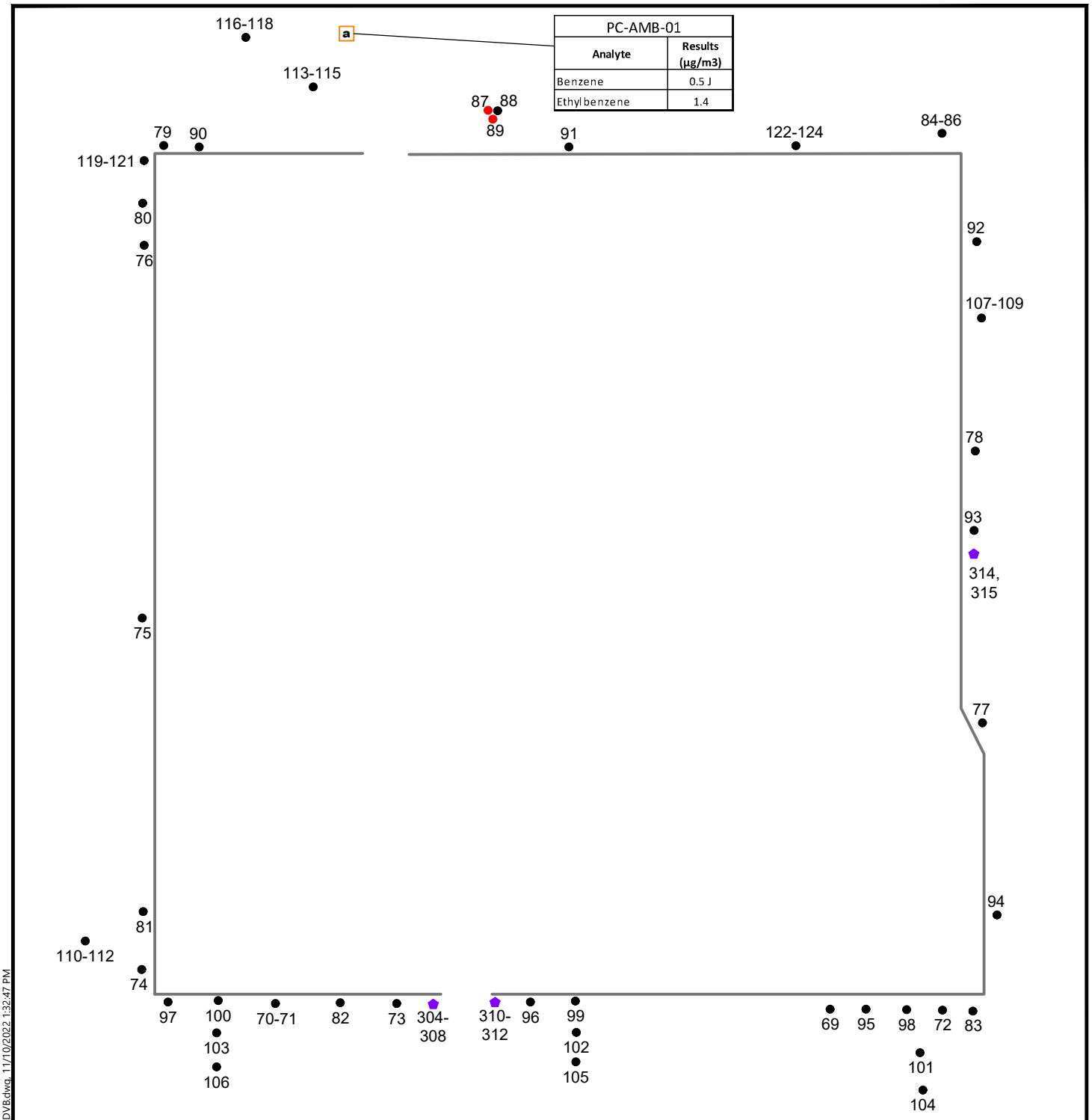
Sampling and Screening Locations with Indoor Air Exceedances
Petroleum County Courthouse
2nd Floor

Subject Property: Petroleum County Courthouse
TD No.: 2082-2209-10

City: Winnet
County: Petroleum
State: Montana

C:\CADD\W0350\F0082220412\cad\PETROL_CO_ACM-LBP_20221110_DVB.dwg, 11/10/2022 1:32:10 PM

Figure 6: Exterior Sample and Screening Locations with Ambient Air Exceedances



PC-AMB-01	
Analyte	Results (µg/m3)
Benzene	0.5 J
Ethylbenzene	1.4

- SAMPLE LOCATION WITH > 1% ASBESTOS DETECTED
- SAMPLE LOCATION NON-DETECT ASBESTOS OR <1%
- LEAD-BASED PAINT SCREENING LOCATION > 1 mg/cm^2
- [a] AMBIENT AIR SAMPLE LOCATION

N

NOT TO SCALE

United States Environmental Protection Agency
Region 8

FIGURE 6

Sampling and Screening Locations
with Ambient Air Exceedances
Petroleum County Courthouse
Exterior

Subject Property: Petroleum County Courthouse
TD No.: 2082-2209-10

City:	County:	State:
Winnet	Petroleum	Montana

TETRA TECH

Date: 11/10/22
Analyst: DVB

C:\CADD\V\90350\F008220412\cad\PETROL_CO_ACM-LBP_20221110_DVB.dwg, 11/10/2022 1:32:47 PM

APPENDIX B: PHOTOGRAPHIC DOCUMENTATION

Phase II ESA Photo Documentation Log
Petroleum County Courthouse
316 East Main Street
Winnett, Montana

Photo: 1	
Direction: North	
Description: Overview of subject property.	
Date: August 23, 2022	

Photo: 2	
Direction: East	
Description: Asbestos containing green floor tile represented by sample IDs PCC-FT-04-A, -B, and -C and sample numbers 182, 183, and 184.	
Date: August 23, 2022	

Phase II ESA Photo Documentation Log
Petroleum County Courthouse
316 East Main Street
Winnett, Montana

Photo: 3	
Direction: South	
Description: Asbestos containing blue floor tile represented by sample IDs PCC-FT-02-A, -B, and -C and sample numbers 136, 137, and 138.	
Date: August 23, 2022	

Photo: 4	
Direction: North	
Description: Vermiculite insulation containing trace amounts of asbestos represented by sample IDs PCC-TSI-02-B, -C, and -E and sample numbers 126, 127, and 129.	
Date: August 23, 2022	

Phase II ESA Photo Documentation Log
Petroleum County Courthouse
316 East Main Street
Winnett, Montana

Photo: 5	
Direction: South	
Description: Windows with glazing that contains trace amounts of asbestos represented by sample IDs PCC-WG-01-A,-B, and -C and sample numbers 122, 123, and 124.	
Date: August 23, 2022	

Photo: 6	
Direction: NA	
Description: Skylight frame in room 6 on the second floor that tested positive for lead containing paint.	
Date: September 13, 2022	

Phase II ESA Photo Documentation Log
Petroleum County Courthouse
316 East Main Street
Winnett, Montana

Photo: 7	
Direction: North	
Description: Window frame on the exterior that tested positive for lead containing paint.	
Date: September 2022	

APPENDIX C: INSPECTOR CERTIFICATIONS

JAMES GORDON

has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).

MTA-6023

Asbestos Inspector 03/02/2023

MT DEQ Asbestos Control Program

Colorado Department
of Public Health
and Environment

LEAD-BASED PAINT CERTIFICATION*

This certifies that

Chandler Broome

Certification No.: 28194

has met the requirements of 25-7-1104, C.R.S. and Air Quality Control Commission Regulation No. 19, and is hereby certified by the state of Colorado in the following discipline:

Inspector*

Issued: **September 06, 2022**

Expires: **September 06, 2023**

** This certificate is valid only with the possession of a valid lead-based paint training certificate in the discipline specified above, issued by either a Colorado approved training provider, an EPA approved training provider, or a training provider approved by another EPA authorized program.*

Authorized APCD Representative

SEAL

APPENDIX D: ACM ANALYTICAL PACKAGE

TETRA TECH
825 W. Custer Ave
Helena, Montana 59602
Phone: 406.442.5588 Fax 406.442.7182

003020045

ASBESTOS PLM CHAIN OF CUSTODY

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	**Phone:**	406.442.5588
Primary Contact:	Amanda Dones	**Phone / Email:**	Amanda.dones@tetratech.com 502-714-4729
Additional Contact:	Jimi Gordon	**Phone / Email:**	Jimi.gordon@tetratech.com 360-320-4427
Sampler Name(s) (print):	Jimi Gordon	**Sampler Signature(s):**	

PROJECT INFORMATION

Client:	START8	**Project Name:**	Petroleum County Courthouse
Project Location:	302 E Main St, Winnett MT 59087	**Project Number:**	103X903520F0082220412

PLM INSTRUCTIONS

☒ **PLM EPA 600/R-93/116**

☐ **PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 1%)**

☒ **Multi-Layered Samples:**

☒ Analyze and Report All Separable Layers per EPA 600 ☐ Report Composite for Drywall System per NESHAP (where applicable) ☐ Only Analyze specifically noted layer

☒ **Analyze Until Positive Stop:** Positive Stop by Material Type as Noted

TURNAROUND TIME

☒ 10 Day ☐ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ RUSH, Results by: _____

Relinquished By	Date & Time	VIA	Received By	Date & Time
Jimi Gordon	8/31/2022 16:00	FEDEX	SEP 01 2022 1000 EZRA RINNAN	

TETRA TECH
7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-CT-01-A		CEILING TILE 2'x4' WHITE	BASEMENT TELE-HEALTH CENTER
PCC-CT-01-B		CEILING TILE 2'x4' WHITE	BASEMENT TELE-HEALTH CENTER
PCC-CT-01-C		CEILING TILE 2'x4' WHITE	BASEMENT TELE-HEALTH CENTER
PCC-CT-02-A		CEILING TILE 2'x4' BRIGHT WHITE	BASEMENT TELE-HEALTH CENTER
PCC-CT-02-B		CEILING TILE 2'x4' BRIGHT WHITE	BASEMENT TELE-HEALTH CENTER
PCC-CT-02-C		CEILING TILE 2'x4' BRIGHT WHITE	BASEMENT TELE-HEALTH CENTER
PCC-CT-03-A		CEILING TILE 2'x4' WHITE PATTERNED	THROUGHOUT BASEMENT
PCC-CT-03-B		CEILING TILE 2'x4' WHITE PATTERNED	THROUGHOUT BASEMENT
PCC-CT-03-C		CEILING TILE 2'x4' WHITE PATTERNED	THROUGHOUT BASEMENT
PCC-CT-03-D		CEILING TILE 2'x4' WHITE PATTERNED	THROUGHOUT BASEMENT
PCC-CT-03-E		CEILING TILE 2'x4' WHITE PATTERNED	THROUGHOUT BASEMENT
PCC-CT-04-A		CEILING TILE 12"x12" WHITE W/ HOLES	BASEMENT MEN'S BATHROOM

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-CT-04-B		CEILING TILE 12"x12" WHITE W/ HOLES	BASEMENT MEN'S BATHROOM
PCC-CT-04-C		CEILING TILE 12"x12" WHITE W/ HOLES	BASEMENT MEN'S BATHROOM
PCC-CT-05-A		CEILING TILE 2'x4' WHITE W/ HOLES	BASEMENT WOMEN'S BATHROOM
PCC-CT-05-B		CEILING TILE 2'x4' WHITE W/ HOLES	BASEMENT WOMEN'S BATHROOM
PCC-CT-05-C		CEILING TILE 2'x4' WHITE W/ HOLES	BASEMENT WOMEN'S BATHROOM
PCC-CT-06-A		CEILING TILE 12"x12" SMOOTH	BASEMENT BINGO AREA
PCC-CT-06-B		CEILING TILE 12"x12" SMOOTH	BASEMENT BINGO AREA
PCC-CT-06-C		CEILING TILE 12"x12" SMOOTH	BASEMENT BINGO AREA
PCC-CON-01-A		CONCRETE GREY	BASEMENT WALLS
PCC-CON-01-B		CONCRETE GREY	BASEMENT WALLS
PCC-CON-01-C		CONCRETE GREY	BASEMENT WALLS
PCC-CON-01-D		CONCRETE GREY	BASEMENT WALLS

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HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-CON-01-E		CONCRETE GREY	BASEMENT WALLS
PCC-CON-02-A		CONCRETE GREY	BASEMENT SLAB
PCC-CON-02-B		CONCRETE GREY	BASEMENT SLAB
PCC-CON-02-C		CONCRETE GREY	BASEMENT SLAB
PCC-CON-02-D		CONCRETE GREY	BASEMENT SLAB
PCC-CON-02-E		CONCRETE GREY	BASEMENT SLAB
PCC-DWS-01-A		DRYWALL SYSTEM	BASEMENT TELE-HEALTH CENTER
PCC-DWS-01-B		DRYWALL SYSTEM	BASEMENT TELE-HEALTH CENTER
PCC-DWS-01-C		DRYWALL SYSTEM	BASEMENT TELE-HEALTH CENTER
PCC-CON-03-A		CONCRETE GREY	BASEMENT NORTH EXIT STAIRS AND LANDING
PCC-CON-03-B		CONCRETE GREY	BASEMENT NORTH EXIT STAIRS AND LANDING
PCC-CON-03-C		CONCRETE GREY	BASEMENT NORTH EXIT STAIRS AND LANDING

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-GRT-01-A		GROUT GREY	BASMENT NORTH EXIT CINDER BLOCKS
PCC-GRT-01-B		GROUT GREY	BASMENT NORTH EXIT CINDER BLOCKS
PCC-GRT-01-C		GROUT GREY	BASMENT NORTH EXIT CINDER BLOCKS
PCC-GRT-02-A		GROUT GREY	BASEMENT FIREPLACE BRICK
PCC-GRT-02-B		GROUT GREY	BASEMENT FIREPLACE BRICK
PCC-GRT-02-C		GROUT GREY	BASEMENT FIREPLACE BRICK
PCC-MAS-01-A		MASTIC TAN	BASEMENT FIREPLACE WOODEN MOULDING
PCC-MAS-01-B		MASTIC TAN	BASEMENT FIREPLACE WOODEN MOULDING
PCC-MAS-01-C		MASTIC TAN	BASEMENT FIREPLACE WOODEN MOULDING
PCC-CPT-01-A		CARPET W/ MASTIC BLUE	BASEMENT DINING AREA AND BINGO AREA
PCC-CPT-01-B		CARPET W/ MASTIC BLUE	BASEMENT DINING AREA AND BINGO AREA
PCC-CPT-01-C		CARPET W/ MASTIC BLUE	BASEMENT DINING AREA AND BINGO AREA

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HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-CPT-01-D		CARPET W/ MASTIC BLUE	BASEMENT DINING AREA AND BINGO AREA
PCC-CPT-01-E		CARPET W/ MASTIC BLUE	BASEMENT DINING AREA AND BINGO AREA
PCC-FT-01-A		FLOOR TILE W/ MASTIC 12"x12" BLUE	THROUGHOUT BASEMENT
PCC-FT-01-B		FLOOR TILE W/ MASTIC 12"x12" BLUE	THROUGHOUT BASEMENT
PCC-FT-01-C		FLOOR TILE W/ MASTIC 12"x12" BLUE	THROUGHOUT BASEMENT
PCC-FT-01-D		FLOOR TILE W/ MASTIC 12"x12" BLUE	THROUGHOUT BASEMENT
PCC-FT-01-E		FLOOR TILE W/ MASTIC 12"x12" BLUE	THROUGHOUT BASEMENT
PCC-DWS-02-A		DRYWALL SYSTEM	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT
PCC-DWS-02-B		DRYWALL SYSTEM	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT
PCC-DWS-02-C		DRYWALL SYSTEM	BASEMENT ELEVATOR, DINING AREA, RECORD STORAGE VAULT
PCC-DWS-03-A		DRYWALL SYSTEM	BASEMENT PRISONER CAGE AREA AND BINGO AREA
PCC-DWS-03-B		DRYWALL SYSTEM	BASEMENT PRISONER CAGE AREA AND BINGO AREA

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HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-DWS-03-C		DRYWALL SYSTEM	BASEMENT PRISONER CAGE AREA AND BINGO AREA
PCC-PLAS-01-A		LATHE & PLASTER COATING	THROUGHOUT ENTIRE BUILDING
PCC-PLAS-01-B		LATHE & PLASTER COATING	THROUGHOUT ENTIRE BUILDING
PCC-PLAS-01-C		LATHE & PLASTER COATING	THROUGHOUT ENTIRE BUILDING
PCC-PLAS-01-D		LATHE & PLASTER COATING	THROUGHOUT ENTIRE BUILDING
PCC-PLAS-01-E		LATHE & PLASTER COATING	THROUGHOUT ENTIRE BUILDING
PCC-PLAS-01-F		LATHE & PLASTER COATING	THROUGHOUT ENTIRE BUILDING
PCC-PLAS-01-G		LATHE & PLASTER COATING	THROUGHOUT ENTIRE BUILDING
PCC-CON-04-A		CONCRETE STUCCO FINISH PAINTED TAN	EXTERIOR SOUTH SIDE
PCC-CON-04-B		CONCRETE STUCCO FINISH PAINTED TAN	EXTERIOR SOUTH SIDE
PCC-CON-04-C		CONCRETE STUCCO FINISH PAINTED TAN	EXTERIOR SOUTH SIDE
PCC-GRT-03-A		GROUT GREY NEWER	EXTERIOR SOUTH AND WEST SIDES

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-GRT-03-B		GROUT GREY NEWER	EXTERIOR SOUTH AND WEST SIDES
PCC-GRT-03-C		GROUT GREY NEWER	EXTERIOR SOUTH AND WEST SIDES
PCC-GRT-03-D		GROUT GREY NEWER	EXTERIOR SOUTH AND WEST SIDES
PCC-GRT-03-E		GROUT GREY NEWER	EXTERIOR SOUTH AND WEST SIDES
PCC-GRT-04-A		GROUT TAN ORIGINAL (VERY DETERIORATED)	THROUGHOUT EXTERIOR BLOCKS
PCC-GRT-04-B		GROUT TAN ORIGINAL (VERY DETERIORATED)	THROUGHOUT EXTERIOR BLOCKS
PCC-GRT-04-C		GROUT TAN ORIGINAL (VERY DETERIORATED)	THROUGHOUT EXTERIOR BLOCKS
PCC-GRT-04-D		GROUT TAN ORIGINAL (VERY DETERIORATED)	THROUGHOUT EXTERIOR BLOCKS
PCC-GRT-04-E		GROUT TAN ORIGINAL (VERY DETERIORATED)	THROUGHOUT EXTERIOR BLOCKS
PCC-GRT-04-F		GROUT TAN ORIGINAL (VERY DETERIORATED)	THROUGHOUT EXTERIOR BLOCKS
PCC-GRT-04-G		GROUT TAN ORIGINAL (VERY DETERIORATED)	THROUGHOUT EXTERIOR BLOCKS
PCC-GRT-05-A		GROUT GREY	EXTERIOR CHIMNEY BRICKS

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-GRT-05-B		GROUT GREY	EXTERIOR CHIMNEY BRICKS
PCC-GRT-05-C		GROUT GREY	EXTERIOR CHIMNEY BRICKS
PCC-RM-01-A		ROOFING MATERIAL GREY	EXTERIOR ROOF OF STAIRWAY TO BASEMENT NORTH EXIT
PCC-RM-01-B		ROOFING MATERIAL GREY	EXTERIOR ROOF OF STAIRWAY TO BASEMENT NORTH EXIT
PCC-RM-01-C		ROOFING MATERIAL GREY	EXTERIOR ROOF OF STAIRWAY TO BASEMENT NORTH EXIT
PCC-CON-05-A		CONCRETE GREY	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES
PCC-CON-05-B		CONCRETE GREY	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES
PCC-CON-05-C		CONCRETE GREY	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES
PCC-CON-05-D		CONCRETE GREY	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES
PCC-CON-05-E		CONCRETE GREY	EXTERIOR COATING OVER BLOCKS NORTH AND EAST SIDES
PCC-CON-06-A		CONCRETE GREY	EXTERIOR SOUTH SIDE WINDOW SILLS AND TOE STEP
PCC-CON-06-B		CONCRETE GREY	EXTERIOR SOUTH SIDE WINDOW SILLS AND TOE STEP

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-CON-06-C		CONCRETE GREY	EXTERIOR SOUTH SIDE WINDOW SILLS AND TOE STEP
PCC-CON-07-A		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (NEAREST BUILDING)
PCC-CON-07-B		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (NEAREST BUILDING)
PCC-CON-07-C		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (NEAREST BUILDING)
PCC-CON-08-A		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (MIDDLE)
PCC-CON-08-B		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (MIDDLE)
PCC-CON-08-C		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (MIDDLE)
PCC-CON-09-A		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (FURTHEST FROM BUILDING)
PCC-CON-09-B		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (FURTHEST FROM BUILDING)
PCC-CON-09-C		CONCRETE GREY	EXTERIOR SOUTH SIDE SIDEWALK (FURTHEST FROM BUILDING)
PCC-CON-10-A		CONCRETE GREY	EXTERIOR EAST SIDE PAD
PCC-CON-10-B		CONCRETE GREY	EXTERIOR EAST SIDE PAD

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-CON-10-C		CONCRETE GREY	EXTERIOR EAST SIDE PAD
PCC-CON-11-A		CONCRETE PINK	EXTERIOR FLAGPOLE PAD
PCC-CON-11-B		CONCRETE PINK	EXTERIOR FLAGPOLE PAD
PCC-CON-11-C		CONCRETE PINK	EXTERIOR FLAGPOLE PAD
PCC-CON-12-A		CONCRETE GREY	EXTERIOR NORTH SIDE ADA PARKING
PCC-CON-12-B		CONCRETE GREY	EXTERIOR NORTH SIDE ADA PARKING
PCC-CON-12-C		CONCRETE GREY	EXTERIOR NORTH SIDE ADA PARKING
PCC-CON-13-A		CONCRETE GREY	EXTERIOR NORTH SIDE PARKING PAD
PCC-CON-13-B		CONCRETE GREY	EXTERIOR NORTH SIDE PARKING PAD
PCC-CON-13-C		CONCRETE GREY	EXTERIOR NORTH SIDE PARKING PAD
PCC-CON-14-A		CONCRETE GREY/BROWN	EXTERIOR BUILDING REPAIR NW CORNER
PCC-CON-14-B		CONCRETE GREY/BROWN	EXTERIOR BUILDING REPAIR NW CORNER

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-CON-14-C		CONCRETE GREY/BROWN	EXTERIOR BUILDING REPAIR NW CORNER
PCC-WG-01-A		WINDOW GLAZE WHITE	EXTERIOR NORTH SIDE WINDOWS
PCC-WG-01-B		WINDOW GLAZE WHITE	EXTERIOR NORTH SIDE WINDOWS
PCC-WG-01-C		WINDOW GLAZE WHITE	EXTERIOR NORTH SIDE WINDOWS
PCC-TSI-01-A		THERMAL INSULATION VERMICULITE	ROOF INSULATION ACCESSED FROM 2ND FLOOR
PCC-TSI-01-B		THERMAL INSULATION VERMICULITE	ROOF INSULATION ACCESSED FROM 2ND FLOOR
PCC-TSI-01-C		THERMAL INSULATION VERMICULITE	ROOF INSULATION ACCESSED FROM 2ND FLOOR
PCC-TSI-01-D		THERMAL INSULATION VERMICULITE	ROOF INSULATION ACCESSED FROM 2ND FLOOR
PCC-TSI-01-E		THERMAL INSULATION VERMICULITE	ROOF INSULATION ACCESSED FROM 2ND FLOOR
PCC-DWS-04-A		DRYWALL SYSTEM	2ND FLOOR NO ADMITTANCE AREA REPAIR
PCC-DWS-04-B		DRYWALL SYSTEM	2ND FLOOR NO ADMITTANCE AREA REPAIR
PCC-DWS-04-C		DRYWALL SYSTEM	2ND FLOOR NO ADMITTANCE AREA REPAIR WEST

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-DWS-05-A		DRYWALL SYSTEM	2ND FLOOR NO ADMITTANCE AREA REPAIR EAST
PCC-DWS-05-B		DRYWALL SYSTEM	2ND FLOOR NO ADMITTANCE AREA REPAIR EAST
PCC-DWS-05-C		DRYWALL SYSTEM	2ND FLOOR NO ADMITTANCE AREA REPAIR EAST
PCC-FT-02-A		FLOOR TILE W/ MASTIC 9"x9" BLUE	2ND FLOOR SHERIFF STORAGE ROOM
PCC-FT-02-B		FLOOR TILE W/ MASTIC 9"x9" BLUE	2ND FLOOR SHERIFF STORAGE ROOM
PCC-FT-02-C		FLOOR TILE W/ MASTIC 9"x9" BLUE	2ND FLOOR SHERIFF STORAGE ROOM
PCC-CT-07-A		CEILING TILE 12"x12" WHITE	2ND FLOOR SHERIFF STORAGE, SHERIFF OFFICE, CHRISTMAS RM, 1ST FLOOR JURY RM
PCC-CT-07-B		CEILING TILE 12"x12" WHITE	2ND FLOOR SHERIFF STORAGE, SHERIFF OFFICE, CHRISTMAS RM, 1ST FLOOR JURY RM
PCC-CT-07-C		CEILING TILE 12"x12" WHITE	2ND FLOOR SHERIFF STORAGE, SHERIFF OFFICE, CHRISTMAS RM, 1ST FLOOR JURY RM
PCC-DWS-06-A		DRYWALL SYSTEM	2ND FLOOR WALKER/CRUTCHES ROOM ON CEILING
PCC-DWS-06-B		DRYWALL SYSTEM	2ND FLOOR WALKER/CRUTCHES ROOM ON CEILING
PCC-DWS-06-C		DRYWALL SYSTEM	2ND FLOOR WALKER/CRUTCHES ROOM ON CEILING

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HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-DWS-07-A		DRYWALL SYSTEM	2ND FLOOR COUNTY ATTORNEY ROOM ON CEILING
PCC-DWS-07-B		DRYWALL SYSTEM	2ND FLOOR COUNTY ATTORNEY ROOM ON CEILING
PCC-DWS-07-C		DRYWALL SYSTEM	2ND FLOOR COUNTY ATTORNEY ROOM ON CEILING
PCC-CT-08-A		CEILING TILE 16"x32" WHITE	2ND FLOOR BLUE ROOM AND LIBRARY
PCC-CT-08-B		CEILING TILE 16"x32" WHITE	2ND FLOOR BLUE ROOM AND LIBRARY
PCC-CT-08-C		CEILING TILE 16"x32" WHITE	2ND FLOOR BLUE ROOM AND LIBRARY
PCC-MAS-02-A		MASTIC WHITE	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR
PCC-MAS-02-B		MASTIC WHITE	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR
PCC-MAS-02-C		MASTIC WHITE	1ST FLOOR JURY ROOM ON UNFINISHED FLOOR
PCC-CPT-02-A		CARPET W/ MASTIC ORANGE	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER
PCC-CPT-02-B		CARPET W/ MASTIC ORANGE	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER
PCC-CPT-02-C		CARPET W/ MASTIC ORANGE	1ST FLOOR JURY ROOM STEP AND JUDGE'S CHAMBER

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ASBESTOS PLM CHAIN OF CUSTODY

HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-CPT-03-A		CARPET W/ MASTIC BROWN	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE
PCC-CPT-03-B		CARPET W/ MASTIC BROWN	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE
PCC-CPT-03-C		CARPET W/ MASTIC BROWN	1ST FLOOR HALLWAYS, ENTRYWAY, IT OFFICE
PCC-CPT-04-A		CARPET W/ MASTIC GREEN	1ST FLOOR JANITOR AREA
PCC-CPT-04-B		CARPET W/ MASTIC GREEN	1ST FLOOR JANITOR AREA
PCC-CPT-04-C		CARPET W/ MASTIC GREEN	1ST FLOOR JANITOR AREA
PCC-CPT-05-A		CARPET W/ MASTIC BLUE	1ST FLOOR COURT ROOM
PCC-CPT-05-B		CARPET W/ MASTIC BLUE	1ST FLOOR COURT ROOM
PCC-CPT-05-C		CARPET W/ MASTIC BLUE	1ST FLOOR COURT ROOM
PCC-DWS-08-A		DRYWALL SYSTEM	THROUGHOUT 1ST FLOOR
PCC-DWS-08-B		DRYWALL SYSTEM	THROUGHOUT 1ST FLOOR
PCC-DWS-08-C		DRYWALL SYSTEM	THROUGHOUT 1ST FLOOR

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HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-DWS-08-D		DRYWALL SYSTEM	THROUGHOUT 1ST FLOOR
PCC-DWS-08-E		DRYWALL SYSTEM	THROUGHOUT 1ST FLOOR
PCC-CT-09-A		CEILING TILE 2'x2' WHITE	THROUGHOUT 1ST FLOOR
PCC-CT-09-B		CEILING TILE 2'x2' WHITE	THROUGHOUT 1ST FLOOR
PCC-CT-09-C		CEILING TILE 2'x2' WHITE	THROUGHOUT 1ST FLOOR
PCC-CT-09-D		CEILING TILE 2'x2' WHITE	THROUGHOUT 1ST FLOOR
PCC-CT-09-E		CEILING TILE 2'x2' WHITE	THROUGHOUT 1ST FLOOR
PCC-DWS-09-A		DRYWALL SYSTEM 2'x2' PANELS	1ST FLOOR ENTRYWALL CEILING
PCC-DWS-09-B		DRYWALL SYSTEM 2'x2' PANELS	1ST FLOOR ENTRYWALL CEILING
PCC-DWS-09-C		DRYWALL SYSTEM 2'x2' PANELS	1ST FLOOR ENTRYWALL CEILING
PCC-FT-03-A		FLOOR TILES W/ MASTIC 12"x12" TAN	1ST FLOOR EMPLOYEE'S BATHROOM
PCC-FT-03-B		FLOOR TILES W/ MASTIC 12"x12" TAN	1ST FLOOR EMPLOYEE'S BATHROOM

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HA ID	LAB ID	SAMPLE DESCRIPTION	NOTES
PCC-FT-03-C		FLOOR TILES W/ MASTIC 12"x12" TAN	1ST FLOOR EMPLOYEE'S BATHROOM
PCC-FT-04-A		FLOOR TILES W/ MASTIC 9"x9" GREEN	2ND FLOOR SHERIFF'S OFFICE
PCC-FT-04-B		FLOOR TILES W/ MASTIC 9"x9" GREEN	2ND FLOOR SHERIFF'S OFFICE
PCC-FT-04-C		FLOOR TILES W/ MASTIC 9"x9" GREEN	2ND FLOOR SHERIFF'S OFFICE

eurofins | EMLab P&K

Report for:

Amanda Dones
Tetra Tech: SA-Region 8
3101 Zinfandel Dr. Bldg B, Ste 200
Rancho Cordova, CA 95670

Regarding: Project: 103X903520F0082220412; START8, Petroleum County Courthouse, 302 E Main St, Winnett MT 59087
EML ID: 3020045

Approved by:

Approved Signatory
Danny Li

Dates of Analysis:
Asbestos-EPA 400 point count: 09-22-2022

Service SOPs: Asbestos-EPA 400 point count (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1262)
NVLAP Lab Code 200757-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins EMLab P&K
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech: SA-Region 8
C/O: Amanda Dones
Re: 103X903520F0082220412; START8, Petroleum County Courthouse, 302 E Main St, Winnett MT 59087

Date of Submittal: 08-31-2022
Date of Receipt: 09-01-2022
Date of Report: 09-23-2022

ASBESTOS POINT COUNT REPORT

Location:	PCC-RM-01-A Roofing material grey, exterior roof of stairway to basement North exit		
Total Points Counted:	400		
Lab ID-Version‡:	14627224-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Black Roofing Mastic	Chrysotile	13	3.25
Layer Totals:		13	3.25

Location:	PCC-RM-01-C Roofing material grey, exterior roof of stairway to basement North exit		
Total Points Counted:	400		
Lab ID-Version‡:	14627225-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Black Roofing Mastic	Chrysotile	16	4
Layer Totals:		16	4

Location:	PCC-WG-01-A Window glaze white, exterior North side windows		
Total Points Counted:	400		
Lab ID-Version‡:	14627292-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
White Window Glazing	Chrysotile	3	0.75
Layer Totals:		3	0.75

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: Tetra Tech: SA-Region 8
C/O: Amanda Dones
Re: 103X903520F0082220412; START8, Petroleum County Courthouse, 302 E Main St, Winnett MT 59087

Date of Submittal: 08-31-2022
Date of Receipt: 09-01-2022
Date of Report: 09-23-2022

ASBESTOS POINT COUNT REPORT

Location:	PCC-WG-01-B Window glaze white, exterior North side windows		
Total Points Counted:	400		
Lab ID-Version‡:	14627293-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
White Window Glazing	Chrysotile	2	0.5
Layer Totals:		2	0.5

Location:	PCC-WG-01-C Window glaze white, exterior North side windows		
Total Points Counted:	400		
Lab ID-Version‡:	14627294-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
White Window Glazing	Chrysotile	2	0.5
Layer Totals:		2	0.5

Location:	PCC-FT-02-A Floor tile with mastic 9"x9" blue, 2nd floor sheriff storage room		
Total Points Counted:	400		
Lab ID-Version‡:	14627226-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Blue Floor Tile	Chrysotile	7	1.75
Layer Totals:		7	1.75

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

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Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech: SA-Region 8
C/O: Amanda Dones
Re: 103X903520F0082220412; START8, Petroleum County Courthouse, 302 E Main St, Winnett MT 59087

Date of Submittal: 08-31-2022
Date of Receipt: 09-01-2022
Date of Report: 09-23-2022

ASBESTOS POINT COUNT REPORT

Location:	PCC-FT-02-B Floor tile with mastic 9"x9" blue, 2nd floor sheriff storage room		
Total Points Counted:	400		
Lab ID-Version‡:	14627227-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Blue Floor Tile	Chrysotile	9	2.25
Layer Totals:		9	2.25

Location:	PCC-FT-02-C Floor tile with mastic 9"x9" blue, 2nd floor sheriff storage room		
Total Points Counted:	400		
Lab ID-Version‡:	14627228-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Blue Floor Tile	Chrysotile	9	2.25
Layer Totals:		9	2.25

Location:	PCC-FT-04-A Floor tiles with mastic 9"x9" green, 2nd floor sherriff's office		
Total Points Counted:	400		
Lab ID-Version‡:	14627229-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Green Floor Tile	Chrysotile	11	2.75
Layer Totals:		11	2.75

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

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Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech: SA-Region 8
C/O: Amanda Dones
Re: 103X903520F0082220412; START8, Petroleum County Courthouse, 302 E Main St, Winnett MT 59087

Date of Submittal: 08-31-2022
Date of Receipt: 09-01-2022
Date of Report: 09-23-2022

ASBESTOS POINT COUNT REPORT

Location:	PCC-FT-04-B Floor tiles with mastic 9"x9" green, 2nd floor sherriff's office		
Total Points Counted:	400		
Lab ID-Version‡:	14627230-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Green Floor Tile	Chrysotile	10	2.5
Layer Totals:		10	2.5

Location:	PCC-FT-04-C Floor tiles with mastic 9"x9" green, 2nd floor sherriff's office		
Total Points Counted:	400		
Lab ID-Version‡:	14627231-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Green Floor Tile	Chrysotile	8	2
Layer Totals:		8	2

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

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All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TETRA TECH

November 1, 2022

Mr. Greg Davis
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 8
Superfund and Emergency Management Division
1595 Wynkoop Street
Denver, CO 80202

Subject: **Data Validation Report**
Petroleum County Courthouse
EPA Contract No.: 68HE0820D0001
Task Order/Technical Direction No.: 68HE0820F0082 / 2082-2204-12
Document Tracking No. 0807b

Dear Mr. Davis:

Tetra Tech, Inc. (Tetra Tech) is submitting these data validation reports for nine air samples (including two field duplicates and one ambient air) and 184 bulk building material samples, collected at the Petroleum County Courthouse site. The air samples were collected on September 13, 2022 and were analyzed for volatile organic compounds by ALS Environmental, Simi Valley, CA. The bulk building material samples were submitted on August 31, 2022 and were analyzed for asbestos by Eurofins EMLab P&K, Tustin, CA. The air final laboratory data package was received on October 5, 2022. The asbestos final laboratory data packages were received on October 16 and 22, 2022.

Analytical data were evaluated in general accordance with the Tetra Tech Pr*ogrammatic Quality Assurance Project Plan for EPA Region 8 START V Brownfields Task Order, Superfund Technical Assessment and Response Team (START V), EPA Region 8, Revision 4* (April 2022), and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort.

If you have any questions regarding this data validation report, please call me at (312) 201-7452.

Sincerely,

Carlos Menor Salazar
Environmental Scientist

Tetra Tech, Inc.
1560 Broadway, Suite 1400, Denver, CO 80202
Tel 303.312.8800
www.tetratech.com

Enclosure
cc: Didi Fung, Tetra Tech Program Manager
Amanda Dones, Tetra Tech Project Manager
Clayton Longest, Tetra Tech Project Document Control Coordinator
TO/TD File

ATTACHMENT 2

DATA VALIDATION REPORT
EUROFINS EMLAB P&K REPORT NO. 3020045

Stage 1 Verification Checklist

Petroleum County Courthouse - Asbestos Samples

2081-2101-05

Reviewed by:

10/25/2022

Eurofins EMLab P&K, Tustin, CA
Report No. 3020045

Carlos Menor Salazar
Environmental Scientist

√	1.	Chain of custody (CoC) documentation is present. See Notes.
√	2.	Sample receipt condition information is present and acceptable. See Notes.
√	3.	Laboratory conducting the analysis is identified.
√	4.	All samples submitted to the laboratory are accounted for.
√	5.	Requested analytical methods were performed.
√	6.	Analysis dates are provided.
√	7.	Analyte results are provided.
√	8.	Result qualifiers and definitions are provided.
√	9.	Result units are reported.
NA	10.	Requested reporting limits are present. See Notes.
NA	11.	Method detection limits are present. See Notes.
X	12.	Sample collection date and time are present.

Discrepancies:

12. Samples collection date and time are not present in the laboratory data packages nor electronic data deliverables (EDDs) because the field personnel did not include these on the chain of custody (COC) form. The data user should refer to the date of submittal as of August 31, 2022 at 16:00 for all the samples collected.

Notes:

1. The COC form specifies analysis instructions for bulk building material samples via Polarized Light Microscopy (PLM) method EPA 600/R-93/116s. However, based on the results obtained via PLM, the Tetra Tech Project Manager requested via email on September 20, 2022, analysis of the asbestos-containing building material samples via PLM Point Count. The laboratory analyzed and reported these results on September 22, 2022.

2. The laboratory stated that all samples were received in acceptable condition unless otherwise noted. There were no additional details; therefore, it is assumed the samples met method criteria for analysis.

   The laboratory included the following comment on three samples (PCC-DWS-07-A, PCC-DWS-07-B, and PCC-DWS-07-C): "Drywall System not detected". The data user should know that the sample description included on the COC form as "Drywall System" differ from the observation by the laboratory analyst.

10/11. The reporting limits and method detection limits are not applicable for bulk building material samples for asbestos analysis. Instead, per the Tetra Tech P*rogrammatic Quality Assurance Project Plan for EPA Region 8 START V Brownfields Task Order, Superfund Technical Assessment and Response Team (START V), EPA Region 8, Revision 4* (April 2022), the threshold definition of 1% by volume applies.

APPENDIX E: SOIL VAPOR AND INDOOR AIR ANALYTICAL PACKAGES

Air - Chain of Custody Record & Analytical Service Request

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

PZ204136

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

ALS Project No.

Company Name & Address (Reporting Information)	Tetra Tech
Project Name	Petroleum County Courthouse
Project Number	103x9035 20F008 2220412
Project Manager	Amanda Dones
P.O. # / Billing Information	
Phone	502 714 4729
Fax	
Email Address for Result Reporting	amanda.dones@tetratech.com
Sampler (Print & Sign)	Matt LaFemina
ALS Contact:	

Analysis Method

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	TO-15 SIM		Comments e.g. Actual Preservative or specific instructions
PC-SG-01	1	9/13/22	1804	AC02404	OA01345	-3	0		X		Box 4/4
PC-AMB-01	2	9/13/22	1825	AC00295	SFC00314	-27	-4		X		Box 2/4
PC-SG-02	3	9/13/22	1049	AC02308	OA00281	-25	-5		X		Box 2/4
PC-SG-03	4	9/13/22	1043	AC01821	OA00068	-28	-5		X		Box 2/4
PC-SG-03-DUP	5	9/13/22	1043	AS00764	OA00907	-26	-4		X		Box 2/4
PC-IA-01	6	9/13/22	1815	AS01583	SFC00291	-27	-4		X		Box 3/4
PC-IA-02	7	9/13/22	1819	AC02136	SFC00180	-27.5	-4		X		Box 3/4
PC-IA-02-DUP	8	9/13/22	1819	AC01836	SFC00196	-28	-4		X		Box 3/4
PC-IA-03	9	9/13/22	1822	AC01862	SFC00323	-29	-4		X		Box 3/4

Report Tier Levels - please select

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

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

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

	Date	Time		Date	Time
Relinquished by: (Signature) Matt LaFemina	9/15/22	1430	Received by: (Signature)	9-19-22	1032
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank Temperature ____ °C

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

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LABORATORY REPORT

September 28, 2022

Amanda Dones
Tetra Tech
1560 Broadway, Suite 1400
Denver, CO 80202

RE: Petroleum County Courthouse / 103X903520F0082220412

Dear Amanda:

Enclosed are the results of the samples submitted to our laboratory on September 19, 2022. For your reference, these analyses have been assigned our service request number P2204136.

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

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

ALS | Environmental

By Sue Anderson at 12:52 pm, Sep 28, 2022

Sue Anderson
Project Manager

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

right solutions.
right partner.

Client: Tetra Tech Service Request No: P2204136
Project: Petroleum County Courthouse / 103X903520F0082220412

CASE NARRATIVE

The samples were received intact under chain of custody on September 19, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

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

The analyte Vinyl Acetate could not be reported for this data set, due to a vendor anomaly found in the new standard being used. Once the issue has been resolved subsequent reports will include the compound in question.

The upper control criterion was exceeded for benzyl chloride in the Continuing Calibration Verification (CCV) and in the Laboratory Control Samples (LCS/LCSD) analyzed on September 26, 2022. Since the apparent problem equates to a potential high bias and the field samples analyzed in this sequence did not contain the analyte in question, the data quality has not been affected. No corrective action was required.

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

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

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CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413-19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA016272019-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

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

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

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Tetra Tech
Service Request: P2204136
Project ID: Petroleum County Courthouse / 103X903520F0082220412

Date Received: 9/19/2022
Time Received: 10:32

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pfl (psig)	TO-15 - VOC Cans 62
PC-SG-01	P2204136-001	Air	9/13/2022	18:04	AC02404	-0.16	3.90	X
PC-AMB-01	P2204136-002	Air	9/13/2022	18:25	AC00295	-2.65	3.69	X
PC-SG-02	P2204136-003	Air	9/13/2022	10:49	AC02308	-2.52	3.58	X
PC-SG-03	P2204136-004	Air	9/13/2022	10:43	AC01821	-3.27	3.85	X
PC-SG-03-DUP	P2204136-005	Air	9/13/2022	10:43	AS00764	-2.48	3.87	X
PC-IA-01	P2204136-006	Air	9/13/2022	18:15	AS01583	-2.40	3.83	X
PC-IA-02	P2204136-007	Air	9/13/2022	18:19	AC02136	-2.23	4.38	X
PC-IA-02-DUP	P2204136-008	Air	9/13/2022	18:19	AC01836	-2.12	3.70	X
PC-IA-03	P2204136-009	Air	9/13/2022	18:22	AC01862	-2.16	3.98	X

Air - Chain of Custody Record & Analytical Service Request

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

PZ204136

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

ALS Project No.

Company Name & Address (Reporting Information)	Tetra Tech
Project Name	Petroleum County Courthouse
Project Number	103x9035 20F008 2220412
Project Manager	Amanda Dones
P.O. # / Billing Information	
Phone	502 714 4729
Fax	
Email Address for Result Reporting	amanda.dones@tetratech.com
Sampler (Print & Sign)	Matt LaFemina
ALS Contact:	

Analysis Method

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	TO-15 SIM		Comments e.g. Actual Preservative or specific instructions
PC-SG-01	1	9/13/22	1804	AC02404	OA01345	-3	0		X		Box 4/4
PC-AMB-01	2	9/13/22	1825	AC00295	SFC00314	-27	-4		X		Box 2/4
PC-SG-02	3	9/13/22	1049	AC02308	OA00281	-25	-5		X		Box 2/4
PC-SG-03	4	9/13/22	1043	AC01821	OA00068	-28	-5		X		Box 2/4
PC-SG-03-DUP	5	9/13/22	1043	AS00764	OA00907	-26	-4		X		Box 2/4
PC-IA-01	6	9/13/22	1815	AS01583	SFC00291	-27	-4		X		Box 3/4
PC-IA-02	7	9/13/22	1819	AC02136	SFC00180	-27.5	-4		X		Box 3/4
PC-IA-02-DUP	8	9/13/22	1819	AC01836	SFC00196	-28	-4		X		Box 3/4
PC-IA-03	9	9/13/22	1822	AC01862	SFC00323	-29	-4		X		Box 3/4

Report Tier Levels - please select

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

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

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

	Date:	Time:		Date:	Time:
Relinquished by: (Signature) Matt LaFemina	9/15/22	1430	Received by: (Signature)	9-19-22	1032
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank Temperature ____ °C

ALS Environmental
Sample Acceptance Check Form

Client: Tetra Tech Work order: P2204136

Project: Petroleum County Courthouse / 103X903520F0082220412

Sample(s) received on: 9/19/22 Date opened: 9/19/22 by: KYLE.WOODIN

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

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

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2204136-001.01	6.0 L Ambient Can					
P2204136-002.01	6.0 L Ambient Can					
P2204136-003.01	6.0 L Ambient Can					
P2204136-004.01	6.0 L Ambient Can					
P2204136-005.01	6.0 L Silonite Can					
P2204136-006.01	6.0 L Silonite Can					
P2204136-007.01	6.0 L Ambient Can					
P2204136-008.01	6.0 L Ambient Can					
P2204136-009.01	6.0 L Ambient Can					

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

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

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-SG-01** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-001

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02404

Initial Pressure (psig): -0.16 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.67	0.67	0.17	0.39	0.39	0.097	**U**
75-71-8	Dichlorodifluoromethane (CFC 12)	0.68	0.68	0.11	0.14	0.14	0.023	**U**
74-87-3	Chloromethane	0.65	0.65	0.11	0.32	0.32	0.053	**U**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.69	0.69	0.11	0.099	0.099	0.015	**U**
75-01-4	Vinyl Chloride	0.67	0.67	0.073	0.26	0.26	0.029	**U**
106-99-0	1,3-Butadiene	0.67	0.67	0.11	0.30	0.30	0.051	**U**
74-83-9	Bromomethane	0.65	0.65	0.095	0.17	0.17	0.024	**U**
75-00-3	Chloroethane	0.65	0.65	0.084	0.25	0.25	0.032	**U**
67-64-1	Acetone	6.7	6.7	1.5	2.8	2.8	0.65	**U**
75-69-4	Trichlorofluoromethane (CFC 11)	0.67	0.67	0.10	0.12	0.12	0.018	**U**
67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	1.3	0.28	0.52	0.52	0.11	**U**
75-35-4	1,1-Dichloroethene	0.69	0.69	0.095	0.17	0.17	0.024	**U**
75-09-2	Methylene Chloride	0.67	0.67	0.19	0.19	0.19	0.055	**U**
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.69	0.69	0.097	0.090	0.090	0.013	**U**
75-15-0	Carbon Disulfide	1.4	1.4	0.20	0.45	0.45	0.066	**U**
156-60-5	trans-1,2-Dichloroethene	0.68	0.68	0.095	0.17	0.17	0.024	**U**
75-34-3	1,1-Dichloroethane	0.68	0.68	0.10	0.17	0.17	0.025	**U**
1634-04-4	Methyl tert-Butyl Ether	0.68	0.68	0.081	0.19	0.19	0.022	**U**
78-93-3	2-Butanone (MEK)	1.3	1.3	0.14	0.43	0.43	0.048	**U**
156-59-2	cis-1,2-Dichloroethene	0.67	0.67	0.096	0.17	0.17	0.024	**U**
141-78-6	Ethyl Acetate	**0.53**	2.7	0.36	**0.15**	0.75	0.099	**J**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **PC-SG-01** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-001

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02404

Initial Pressure (psig): -0.16 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	0.68	0.68	0.14	0.19	0.19	0.040	**U**
67-66-3	Chloroform	0.69	0.69	0.091	0.14	0.14	0.019	**U**
109-99-9	Tetrahydrofuran (THF)	1.3	1.3	0.086	0.43	0.43	0.029	**U**
107-06-2	1,2-Dichloroethane	0.68	0.68	0.076	0.17	0.17	0.019	**U**
71-55-6	1,1,1-Trichloroethane	0.67	0.67	0.084	0.12	0.12	0.015	**U**
71-43-2	Benzene	0.64	0.64	0.099	0.20	0.20	0.031	**U**
56-23-5	Carbon Tetrachloride	0.64	0.64	0.095	0.10	0.10	0.015	**U**
110-82-7	Cyclohexane	1.4	1.4	0.19	0.41	0.41	0.056	**U**
78-87-5	1,2-Dichloropropane	0.64	0.64	0.084	0.14	0.14	0.018	**U**
75-27-4	Bromodichloromethane	0.68	0.68	0.099	0.10	0.10	0.015	**U**
79-01-6	Trichloroethene	0.67	0.67	0.092	0.12	0.12	0.017	**U**
123-91-1	1,4-Dioxane	0.67	0.67	0.081	0.18	0.18	0.022	**U**
142-82-5	n-Heptane	0.68	0.68	0.11	0.17	0.17	0.027	**U**
10061-01-5	cis-1,3-Dichloropropene	0.64	0.64	0.11	0.14	0.14	0.023	**U**
108-10-1	4-Methyl-2-pentanone	1.4	1.4	0.093	0.34	0.34	0.023	**U**
10061-02-6	trans-1,3-Dichloropropene	0.65	0.65	0.14	0.14	0.14	0.031	**U**
79-00-5	1,1,2-Trichloroethane	0.67	0.67	0.069	0.12	0.12	0.013	**U**
108-88-3	Toluene	**0.22**	0.67	0.083	**0.058**	0.18	0.022	**J**
591-78-6	2-Hexanone	1.4	1.4	0.084	0.34	0.34	0.021	**U**
124-48-1	Dibromochloromethane	0.68	0.68	0.090	0.080	0.080	0.011	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **PC-SG-01** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-001

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02404

Initial Pressure (psig): -0.16 Final Pressure (psig): 3.90

Canister Dilution Factor: 1.28

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.67	0.67	0.079	0.087	0.087	0.010	U
127-18-4	Tetrachloroethene	0.67	0.67	0.088	0.098	0.098	0.013	U
108-90-7	Chlorobenzene	0.67	0.67	0.091	0.14	0.14	0.020	U
100-41-4	Ethylbenzene	0.67	0.67	0.096	0.15	0.15	0.022	U
179601-23-1	m,p-Xylenes	1.4	1.4	0.18	0.32	0.32	0.041	U
75-25-2	Bromoform	0.67	0.67	0.14	0.064	0.064	0.014	U
100-42-5	Styrene	0.64	0.64	0.11	0.15	0.15	0.026	U
95-47-6	o-Xylene	0.67	0.67	0.099	0.15	0.15	0.023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.67	0.67	0.095	0.097	0.097	0.014	U
98-82-8	Cumene	0.67	0.67	0.099	0.14	0.14	0.020	U
622-96-8	4-Ethyltoluene	0.68	0.68	0.11	0.14	0.14	0.022	U
108-67-8	1,3,5-Trimethylbenzene	0.67	0.67	0.099	0.14	0.14	0.020	U
95-63-6	1,2,4-Trimethylbenzene	0.67	0.67	0.095	0.14	0.14	0.019	U
100-44-7	Benzyl Chloride	1.4	1.4	0.15	0.27	0.27	0.030	U
541-73-1	1,3-Dichlorobenzene	0.67	0.67	0.10	0.11	0.11	0.017	U
106-46-7	1,4-Dichlorobenzene	0.67	0.67	0.10	0.11	0.11	0.017	U
95-50-1	1,2-Dichlorobenzene	0.68	0.68	0.10	0.11	0.11	0.017	U
120-82-1	1,2,4-Trichlorobenzene	1.4	1.4	0.17	0.19	0.19	0.022	U
91-20-3	Naphthalene	0.67	0.67	0.17	0.13	0.13	0.032	U
87-68-3	Hexachlorobutadiene	0.67	0.67	0.14	0.062	0.062	0.013	U

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-AMB-01** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-002

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00295

Initial Pressure (psig): -2.65 Final Pressure (psig): 3.69

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**4.6**	0.80	0.20	**2.7**	0.46	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.3**	0.81	0.13	**0.47**	0.16	0.027	
74-87-3	Chloromethane	**0.44**	0.78	0.13	**0.21**	0.38	0.064	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.83	0.83	0.13	0.12	0.12	0.018	**U**
75-01-4	Vinyl Chloride	0.80	0.80	0.087	0.31	0.31	0.034	**U**
106-99-0	1,3-Butadiene	0.80	0.80	0.13	0.36	0.36	0.061	**U**
74-83-9	Bromomethane	0.78	0.78	0.11	0.20	0.20	0.029	**U**
75-00-3	Chloroethane	0.78	0.78	0.10	0.30	0.30	0.038	**U**
67-64-1	Acetone	**130**	8.0	1.8	**55**	3.4	0.77	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.1**	0.80	0.12	**0.20**	0.14	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**11**	1.5	0.34	**4.4**	0.62	0.14	
75-35-4	1,1-Dichloroethene	0.83	0.83	0.11	0.21	0.21	0.029	**U**
75-09-2	Methylene Chloride	**0.79**	0.80	0.23	**0.23**	0.23	0.066	**J**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.50**	0.83	0.12	**0.066**	0.11	0.015	**J**
75-15-0	Carbon Disulfide	**0.35**	1.7	0.24	**0.11**	0.54	0.079	**J**
156-60-5	trans-1,2-Dichloroethene	**0.21**	0.81	0.11	**0.053**	0.20	0.029	**J**
75-34-3	1,1-Dichloroethane	0.81	0.81	0.12	0.20	0.20	0.029	**U**
1634-04-4	Methyl tert-Butyl Ether	0.81	0.81	0.096	0.23	0.23	0.027	**U**
78-93-3	2-Butanone (MEK)	**5.7**	1.5	0.17	**1.9**	0.52	0.057	**B**
156-59-2	cis-1,2-Dichloroethene	0.80	0.80	0.11	0.20	0.20	0.029	**U**
141-78-6	Ethyl Acetate	**170**	3.2	0.43	**46**	0.89	0.12	

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-AMB-01** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-002

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00295

Initial Pressure (psig): -2.65 Final Pressure (psig): 3.69

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	**0.64**	0.81	0.17	**0.18**	0.23	0.048	**J**
67-66-3	Chloroform	0.83	0.83	0.11	0.17	0.17	0.022	**U**
109-99-9	Tetrahydrofuran (THF)	**0.46**	1.5	0.10	**0.16**	0.52	0.035	**J**
107-06-2	1,2-Dichloroethane	**0.099**	0.81	0.090	**0.025**	0.20	0.022	**J**
71-55-6	1,1,1-Trichloroethane	0.80	0.80	0.10	0.15	0.15	0.019	**U**
71-43-2	Benzene	**0.50**	0.77	0.12	**0.16**	0.24	0.037	**J**
56-23-5	Carbon Tetrachloride	**0.42**	0.77	0.11	**0.067**	0.12	0.018	**J**
110-82-7	Cyclohexane	**2.3**	1.7	0.23	**0.66**	0.49	0.067	
78-87-5	1,2-Dichloropropane	**0.17**	0.77	0.10	**0.037**	0.17	0.022	**J**
75-27-4	Bromodichloromethane	0.81	0.81	0.12	0.12	0.12	0.018	**U**
79-01-6	Trichloroethene	0.80	0.80	0.11	0.15	0.15	0.021	**U**
123-91-1	1,4-Dioxane	0.80	0.80	0.096	0.22	0.22	0.027	**U**
142-82-5	n-Heptane	**0.40**	0.81	0.13	**0.097**	0.20	0.032	**J**
10061-01-5	cis-1,3-Dichloropropene	0.77	0.77	0.13	0.17	0.17	0.028	**U**
108-10-1	4-Methyl-2-pentanone	**0.92**	1.7	0.11	**0.22**	0.41	0.027	**J**
10061-02-6	trans-1,3-Dichloropropene	0.78	0.78	0.17	0.17	0.17	0.037	**U**
79-00-5	1,1,2-Trichloroethane	0.80	0.80	0.083	0.15	0.15	0.015	**U**
108-88-3	Toluene	**55**	0.80	0.099	**15**	0.21	0.026	
591-78-6	2-Hexanone	**0.31**	1.7	0.10	**0.075**	0.41	0.025	**J**
124-48-1	Dibromochloromethane	0.81	0.81	0.11	0.095	0.095	0.013	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **PC-AMB-01** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-002

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC00295

Initial Pressure (psig): -2.65 Final Pressure (psig): 3.69

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.80	0.80	0.095	0.10	0.10	0.012	**U**
127-18-4	Tetrachloroethene	**0.16**	0.80	0.11	**0.024**	0.12	0.016	**J**
108-90-7	Chlorobenzene	0.80	0.80	0.11	0.17	0.17	0.024	**U**
100-41-4	Ethylbenzene	**1.4**	0.80	0.11	**0.32**	0.18	0.026	
179601-23-1	m,p-Xylenes	**4.5**	1.7	0.21	**1.0**	0.39	0.049	
75-25-2	Bromoform	0.80	0.80	0.17	0.077	0.077	0.016	**U**
100-42-5	Styrene	**0.78**	0.77	0.13	**0.18**	0.18	0.031	
95-47-6	o-Xylene	**2.2**	0.80	0.12	**0.51**	0.18	0.027	
79-34-5	1,1,2,2-Tetrachloroethane	0.80	0.80	0.11	0.12	0.12	0.016	**U**
98-82-8	Cumene	0.80	0.80	0.12	0.16	0.16	0.024	**U**
622-96-8	4-Ethyltoluene	**0.14**	0.81	0.13	**0.028**	0.17	0.026	**J**
108-67-8	1,3,5-Trimethylbenzene	**0.12**	0.80	0.12	**0.025**	0.16	0.024	**J**
95-63-6	1,2,4-Trimethylbenzene	**0.47**	0.80	0.11	**0.096**	0.16	0.023	**J**
100-44-7	Benzyl Chloride	1.7	1.7	0.18	0.33	0.33	0.035	**U**
541-73-1	1,3-Dichlorobenzene	0.80	0.80	0.12	0.13	0.13	0.020	**U**
106-46-7	1,4-Dichlorobenzene	0.80	0.80	0.13	0.13	0.13	0.021	**U**
95-50-1	1,2-Dichlorobenzene	0.81	0.81	0.12	0.13	0.13	0.020	**U**
120-82-1	1,2,4-Trichlorobenzene	1.7	1.7	0.20	0.23	0.23	0.027	**U**
91-20-3	Naphthalene	0.80	0.80	0.20	0.15	0.15	0.038	**U**
87-68-3	Hexachlorobutadiene	0.80	0.80	0.17	0.075	0.075	0.016	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-SG-02** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-003

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.10 Liter(s)
Container ID: AC02308

Initial Pressure (psig): -2.52 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**25**	0.78	0.20	**15**	0.45	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.80	0.13	**0.44**	0.16	0.026	
74-87-3	Chloromethane	0.77	0.77	0.13	0.37	0.37	0.062	**U**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.81	0.81	0.13	0.12	0.12	0.018	**U**
75-01-4	Vinyl Chloride	0.78	0.78	0.086	0.31	0.31	0.033	**U**
106-99-0	1,3-Butadiene	0.78	0.78	0.13	0.35	0.35	0.060	**U**
74-83-9	Bromomethane	0.77	0.77	0.11	0.20	0.20	0.029	**U**
75-00-3	Chloroethane	0.77	0.77	0.099	0.29	0.29	0.038	**U**
67-64-1	Acetone	**500**	7.8	1.8	**210**	3.3	0.76	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.1**	0.78	0.12	**0.20**	0.14	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**110**	1.5	0.33	**44**	0.61	0.13	
75-35-4	1,1-Dichloroethene	0.81	0.81	0.11	0.20	0.20	0.028	**U**
75-09-2	Methylene Chloride	**2.2**	0.78	0.23	**0.63**	0.22	0.065	
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.47**	0.81	0.11	**0.061**	0.11	0.015	**J**
75-15-0	Carbon Disulfide	**3.1**	1.7	0.24	**1.0**	0.53	0.077	
156-60-5	trans-1,2-Dichloroethene	**0.76**	0.80	0.11	**0.19**	0.20	0.028	**J**
75-34-3	1,1-Dichloroethane	0.80	0.80	0.12	0.20	0.20	0.029	**U**
1634-04-4	Methyl tert-Butyl Ether	0.80	0.80	0.095	0.22	0.22	0.026	**U**
78-93-3	2-Butanone (MEK)	**20**	1.5	0.17	**6.8**	0.51	0.056	**B**
156-59-2	cis-1,2-Dichloroethene	0.78	0.78	0.11	0.20	0.20	0.028	**U**
141-78-6	Ethyl Acetate	**600**	3.2	0.42	**170**	0.87	0.12	

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Tetra Tech**

Client Sample ID: **PC-SG-02** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-003

Test Code:	EPA TO-15	Date Collected:	9/13/22
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9	Date Received:	9/19/22
Analyst:	Wida Ang	Date Analyzed:	9/26/22
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:			0.10 Liter(s)
Container ID:	AC02308		

Initial Pressure (psig): -2.52 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	**14**	0.80	0.17	**4.0**	0.23	0.047	
67-66-3	Chloroform	**0.30**	0.81	0.11	**0.061**	0.17	0.022	**J**
109-99-9	Tetrahydrofuran (THF)	**3.7**	1.5	0.10	**1.2**	0.51	0.034	
107-06-2	1,2-Dichloroethane	0.80	0.80	0.089	0.20	0.20	0.022	**U**
71-55-6	1,1,1-Trichloroethane	0.78	0.78	0.099	0.14	0.14	0.018	**U**
71-43-2	Benzene	**7.8**	0.75	0.12	**2.5**	0.23	0.036	
56-23-5	Carbon Tetrachloride	**0.33**	0.75	0.11	**0.052**	0.12	0.018	**J**
110-82-7	Cyclohexane	**11**	1.7	0.23	**3.3**	0.48	0.065	
78-87-5	1,2-Dichloropropane	**0.71**	0.75	0.099	**0.15**	0.16	0.021	**J**
75-27-4	Bromodichloromethane	0.80	0.80	0.12	0.12	0.12	0.017	**U**
79-01-6	Trichloroethene	0.78	0.78	0.11	0.15	0.15	0.020	**U**
123-91-1	1,4-Dioxane	**0.26**	0.78	0.095	**0.073**	0.22	0.026	**J**
142-82-5	n-Heptane	**12**	0.80	0.13	**2.8**	0.19	0.031	
10061-01-5	cis-1,3-Dichloropropene	0.75	0.75	0.12	0.17	0.17	0.027	**U**
108-10-1	4-Methyl-2-pentanone	**5.6**	1.7	0.11	**1.4**	0.40	0.027	
10061-02-6	trans-1,3-Dichloropropene	0.77	0.77	0.17	0.17	0.17	0.036	**U**
79-00-5	1,1,2-Trichloroethane	0.78	0.78	0.081	0.14	0.14	0.015	**U**
108-88-3	Toluene	**230**	7.8	0.98	**60**	2.1	0.26	**D**
591-78-6	2-Hexanone	1.7	1.7	0.099	0.40	0.40	0.024	**U**
124-48-1	Dibromochloromethane	0.80	0.80	0.11	0.093	0.093	0.012	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
D = The reported result is from a dilution.

Client: **Tetra Tech**

Client Sample ID: **PC-SG-02** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-003

Test Code:	EPA TO-15	Date Collected:	9/13/22
Instrument ID:	Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9	Date Received:	9/19/22
Analyst:	Wida Ang	Date Analyzed:	9/26/22
Sample Type:	6.0 L Summa Canister	Volume(s) Analyzed:	1.00 Liter(s)
Test Notes:			0.10 Liter(s)
Container ID:	AC02308		

Initial Pressure (psig): -2.52 Final Pressure (psig): 3.58

Canister Dilution Factor: 1.50

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.78	0.78	0.093	0.10	0.10	0.012	**U**
127-18-4	Tetrachloroethene	**0.66**	0.78	0.10	**0.097**	0.12	0.015	**J**
108-90-7	Chlorobenzene	**0.23**	0.78	0.11	**0.051**	0.17	0.023	**J**
100-41-4	Ethylbenzene	**7.6**	0.78	0.11	**1.7**	0.18	0.026	
179601-23-1	m,p-Xylenes	**42**	1.7	0.21	**9.7**	0.38	0.048	
75-25-2	Bromoform	0.78	0.78	0.17	0.075	0.075	0.016	**U**
100-42-5	Styrene	**2.8**	0.75	0.13	**0.65**	0.18	0.030	
95-47-6	o-Xylene	**16**	0.78	0.12	**3.6**	0.18	0.027	
79-34-5	1,1,2,2-Tetrachloroethane	0.78	0.78	0.11	0.11	0.11	0.016	**U**
98-82-8	Cumene	**0.56**	0.78	0.12	**0.11**	0.16	0.024	**J**
622-96-8	4-Ethyltoluene	**2.0**	0.80	0.13	**0.41**	0.16	0.026	
108-67-8	1,3,5-Trimethylbenzene	**7.0**	0.78	0.12	**1.4**	0.16	0.024	
95-63-6	1,2,4-Trimethylbenzene	**14**	0.78	0.11	**2.9**	0.16	0.023	
100-44-7	Benzyl Chloride	1.7	1.7	0.18	0.32	0.32	0.035	**U**
541-73-1	1,3-Dichlorobenzene	0.78	0.78	0.12	0.13	0.13	0.020	**U**
106-46-7	1,4-Dichlorobenzene	0.78	0.78	0.12	0.13	0.13	0.020	**U**
95-50-1	1,2-Dichlorobenzene	0.80	0.80	0.12	0.13	0.13	0.020	**U**
120-82-1	1,2,4-Trichlorobenzene	1.7	1.7	0.20	0.22	0.22	0.026	**U**
91-20-3	Naphthalene	**1.2**	0.78	0.20	**0.23**	0.15	0.037	
87-68-3	Hexachlorobutadiene	0.78	0.78	0.17	0.073	0.073	0.015	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-SG-03** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-004

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01821

Initial Pressure (psig): -3.27 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**15**	0.84	0.21	**8.6**	0.49	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.86	0.14	**0.44**	0.17	0.029	
74-87-3	Chloromethane	0.83	0.83	0.14	0.40	0.40	0.067	**U**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.87	0.87	0.14	0.13	0.13	0.019	**U**
75-01-4	Vinyl Chloride	0.84	0.84	0.092	0.33	0.33	0.036	**U**
106-99-0	1,3-Butadiene	0.84	0.84	0.14	0.38	0.38	0.064	**U**
74-83-9	Bromomethane	0.83	0.83	0.12	0.21	0.21	0.031	**U**
75-00-3	Chloroethane	0.83	0.83	0.11	0.31	0.31	0.041	**U**
67-64-1	Acetone	**57**	8.4	1.9	**24**	3.5	0.82	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.2**	0.84	0.13	**0.22**	0.15	0.023	
67-63-0	2-Propanol (Isopropyl Alcohol)	**48**	1.6	0.36	**20**	0.66	0.15	
75-35-4	1,1-Dichloroethene	0.87	0.87	0.12	0.22	0.22	0.030	**U**
75-09-2	Methylene Chloride	0.84	0.84	0.24	0.24	0.24	0.070	**U**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.45**	0.87	0.12	**0.058**	0.11	0.016	**J**
75-15-0	Carbon Disulfide	**3.2**	1.8	0.26	**1.0**	0.57	0.083	
156-60-5	trans-1,2-Dichloroethene	0.86	0.86	0.12	0.22	0.22	0.030	**U**
75-34-3	1,1-Dichloroethane	0.86	0.86	0.13	0.21	0.21	0.031	**U**
1634-04-4	Methyl tert-Butyl Ether	0.86	0.86	0.10	0.24	0.24	0.028	**U**
78-93-3	2-Butanone (MEK)	**5.2**	1.6	0.18	**1.8**	0.55	0.060	**B**
156-59-2	cis-1,2-Dichloroethene	0.84	0.84	0.12	0.21	0.21	0.031	**U**
141-78-6	Ethyl Acetate	**0.87**	3.4	0.45	**0.24**	0.94	0.13	**J**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Tetra Tech**

Client Sample ID: **PC-SG-03** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-004

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01821

Initial Pressure (psig): -3.27 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	**5.9**	0.86	0.18	**1.7**	0.24	0.051	
67-66-3	Chloroform	0.87	0.87	0.12	0.18	0.18	0.024	**U**
109-99-9	Tetrahydrofuran (THF)	**0.65**	1.6	0.11	**0.22**	0.55	0.037	**J**
107-06-2	1,2-Dichloroethane	0.86	0.86	0.096	0.21	0.21	0.024	**U**
71-55-6	1,1,1-Trichloroethane	0.84	0.84	0.11	0.15	0.15	0.020	**U**
71-43-2	Benzene	**4.4**	0.81	0.12	**1.4**	0.25	0.039	
56-23-5	Carbon Tetrachloride	**0.30**	0.81	0.12	**0.048**	0.13	0.019	**J**
110-82-7	Cyclohexane	**7.3**	1.8	0.24	**2.1**	0.52	0.071	
78-87-5	1,2-Dichloropropane	0.81	0.81	0.11	0.18	0.18	0.023	**U**
75-27-4	Bromodichloromethane	0.86	0.86	0.12	0.13	0.13	0.019	**U**
79-01-6	Trichloroethene	**0.13**	0.84	0.12	**0.024**	0.16	0.022	**J**
123-91-1	1,4-Dioxane	**0.23**	0.84	0.10	**0.065**	0.23	0.028	**J**
142-82-5	n-Heptane	**3.9**	0.86	0.14	**0.96**	0.21	0.034	
10061-01-5	cis-1,3-Dichloropropene	0.81	0.81	0.13	0.18	0.18	0.030	**U**
108-10-1	4-Methyl-2-pentanone	**2.5**	1.8	0.12	**0.61**	0.44	0.029	
10061-02-6	trans-1,3-Dichloropropene	0.83	0.83	0.18	0.18	0.18	0.039	**U**
79-00-5	1,1,2-Trichloroethane	0.84	0.84	0.087	0.15	0.15	0.016	**U**
108-88-3	Toluene	**11**	0.84	0.11	**2.9**	0.22	0.028	
591-78-6	2-Hexanone	1.8	1.8	0.11	0.44	0.44	0.026	**U**
124-48-1	Dibromochloromethane	0.86	0.86	0.11	0.10	0.10	0.013	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **PC-SG-03** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-004

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01821

Initial Pressure (psig): -3.27 Final Pressure (psig): 3.85

Canister Dilution Factor: 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.84	0.84	0.10	0.11	0.11	0.013	**U**
127-18-4	Tetrachloroethene	**0.29**	0.84	0.11	**0.043**	0.12	0.016	**J**
108-90-7	Chlorobenzene	**0.57**	0.84	0.12	**0.12**	0.18	0.025	**J**
100-41-4	Ethylbenzene	**2.2**	0.84	0.12	**0.50**	0.19	0.028	
179601-23-1	m,p-Xylenes	**8.9**	1.8	0.23	**2.1**	0.41	0.052	
75-25-2	Bromoform	0.84	0.84	0.18	0.082	0.082	0.017	**U**
100-42-5	Styrene	**0.22**	0.81	0.14	**0.052**	0.19	0.033	**J**
95-47-6	o-Xylene	**3.0**	0.84	0.12	**0.69**	0.19	0.029	
79-34-5	1,1,2,2-Tetrachloroethane	0.84	0.84	0.12	0.12	0.12	0.017	**U**
98-82-8	Cumene	**0.24**	0.84	0.12	**0.048**	0.17	0.025	**J**
622-96-8	4-Ethyltoluene	**0.85**	0.86	0.14	**0.17**	0.17	0.028	**J**
108-67-8	1,3,5-Trimethylbenzene	**2.1**	0.84	0.12	**0.43**	0.17	0.025	
95-63-6	1,2,4-Trimethylbenzene	**4.8**	0.84	0.12	**0.97**	0.17	0.024	
100-44-7	Benzyl Chloride	1.8	1.8	0.19	0.34	0.34	0.038	**U**
541-73-1	1,3-Dichlorobenzene	0.84	0.84	0.13	0.14	0.14	0.022	**U**
106-46-7	1,4-Dichlorobenzene	0.84	0.84	0.13	0.14	0.14	0.022	**U**
95-50-1	1,2-Dichlorobenzene	0.86	0.86	0.13	0.14	0.14	0.021	**U**
120-82-1	1,2,4-Trichlorobenzene	1.8	1.8	0.21	0.24	0.24	0.028	**U**
91-20-3	Naphthalene	**0.70**	0.84	0.21	**0.13**	0.16	0.040	**J**
87-68-3	Hexachlorobutadiene	0.84	0.84	0.18	0.079	0.079	0.017	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-SG-03-DUP** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-005

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00764

Initial Pressure (psig): -2.48 Final Pressure (psig): 3.87

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**15**	0.79	0.20	**8.5**	0.46	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.81	0.13	**0.44**	0.16	0.027	
74-87-3	Chloromethane	0.78	0.78	0.13	0.38	0.38	0.063	**U**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.82	0.82	0.13	0.12	0.12	0.018	**U**
75-01-4	Vinyl Chloride	0.79	0.79	0.087	0.31	0.31	0.034	**U**
106-99-0	1,3-Butadiene	0.79	0.79	0.13	0.36	0.36	0.060	**U**
74-83-9	Bromomethane	0.78	0.78	0.11	0.20	0.20	0.029	**U**
75-00-3	Chloroethane	0.78	0.78	0.10	0.29	0.29	0.038	**U**
67-64-1	Acetone	**120**	7.9	1.8	**52**	3.3	0.77	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.2**	0.79	0.12	**0.22**	0.14	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**58**	1.5	0.33	**24**	0.62	0.14	
75-35-4	1,1-Dichloroethene	0.82	0.82	0.11	0.21	0.21	0.028	**U**
75-09-2	Methylene Chloride	**0.40**	0.79	0.23	**0.11**	0.23	0.066	**J**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.48**	0.82	0.12	**0.062**	0.11	0.015	**J**
75-15-0	Carbon Disulfide	**4.2**	1.7	0.24	**1.3**	0.54	0.078	
156-60-5	trans-1,2-Dichloroethene	**0.12**	0.81	0.11	**0.031**	0.20	0.028	**J**
75-34-3	1,1-Dichloroethane	0.81	0.81	0.12	0.20	0.20	0.029	**U**
1634-04-4	Methyl tert-Butyl Ether	0.81	0.81	0.096	0.22	0.22	0.027	**U**
78-93-3	2-Butanone (MEK)	**7.4**	1.5	0.17	**2.5**	0.52	0.057	**B**
156-59-2	cis-1,2-Dichloroethene	0.79	0.79	0.11	0.20	0.20	0.029	**U**
141-78-6	Ethyl Acetate	**94**	3.2	0.43	**26**	0.89	0.12	

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Tetra Tech**

Client Sample ID: **PC-SG-03-DUP** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-005

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00764

Initial Pressure (psig): -2.48 Final Pressure (psig): 3.87

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	**6.1**	0.81	0.17	**1.7**	0.23	0.047	
67-66-3	Chloroform	**0.11**	0.82	0.11	**0.022**	0.17	0.022	**J**
109-99-9	Tetrahydrofuran (THF)	**0.90**	1.5	0.10	**0.31**	0.52	0.035	**J**
107-06-2	1,2-Dichloroethane	0.81	0.81	0.090	0.20	0.20	0.022	**U**
71-55-6	1,1,1-Trichloroethane	0.79	0.79	0.10	0.14	0.14	0.018	**U**
71-43-2	Benzene	**4.4**	0.76	0.12	**1.4**	0.24	0.037	
56-23-5	Carbon Tetrachloride	**0.33**	0.76	0.11	**0.052**	0.12	0.018	**J**
110-82-7	Cyclohexane	**8.1**	1.7	0.23	**2.3**	0.49	0.066	
78-87-5	1,2-Dichloropropane	0.76	0.76	0.10	0.16	0.16	0.022	**U**
75-27-4	Bromodichloromethane	0.81	0.81	0.12	0.12	0.12	0.017	**U**
79-01-6	Trichloroethene	**0.19**	0.79	0.11	**0.036**	0.15	0.020	**J**
123-91-1	1,4-Dioxane	**0.28**	0.79	0.096	**0.079**	0.22	0.027	**J**
142-82-5	n-Heptane	**4.0**	0.81	0.13	**0.98**	0.20	0.032	
10061-01-5	cis-1,3-Dichloropropene	0.76	0.76	0.13	0.17	0.17	0.028	**U**
108-10-1	4-Methyl-2-pentanone	**2.9**	1.7	0.11	**0.72**	0.41	0.027	
10061-02-6	trans-1,3-Dichloropropene	0.78	0.78	0.17	0.17	0.17	0.037	**U**
79-00-5	1,1,2-Trichloroethane	0.79	0.79	0.082	0.14	0.14	0.015	**U**
108-88-3	Toluene	**42**	0.79	0.099	**11**	0.21	0.026	
591-78-6	2-Hexanone	1.7	1.7	0.10	0.41	0.41	0.024	**U**
124-48-1	Dibromochloromethane	0.81	0.81	0.11	0.095	0.095	0.012	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-SG-03-DUP** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-005

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00764

Initial Pressure (psig): -2.48 Final Pressure (psig): 3.87

Canister Dilution Factor: 1.52

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.79	0.79	0.094	0.10	0.10	0.012	**U**
127-18-4	Tetrachloroethene	**0.27**	0.79	0.10	**0.039**	0.12	0.015	**J**
108-90-7	Chlorobenzene	**0.60**	0.79	0.11	**0.13**	0.17	0.023	**J**
100-41-4	Ethylbenzene	**3.0**	0.79	0.11	**0.68**	0.18	0.026	
179601-23-1	m,p-Xylenes	**12**	1.7	0.21	**2.7**	0.39	0.049	
75-25-2	Bromoform	0.79	0.79	0.17	0.076	0.076	0.016	**U**
100-42-5	Styrene	**0.63**	0.76	0.13	**0.15**	0.18	0.031	**J**
95-47-6	o-Xylene	**4.2**	0.79	0.12	**0.97**	0.18	0.027	
79-34-5	1,1,2,2-Tetrachloroethane	0.79	0.79	0.11	0.12	0.12	0.016	**U**
98-82-8	Cumene	**0.27**	0.79	0.12	**0.055**	0.16	0.024	**J**
622-96-8	4-Ethyltoluene	**0.93**	0.81	0.13	**0.19**	0.16	0.026	
108-67-8	1,3,5-Trimethylbenzene	**2.2**	0.79	0.12	**0.45**	0.16	0.024	
95-63-6	1,2,4-Trimethylbenzene	**5.1**	0.79	0.11	**1.0**	0.16	0.023	
100-44-7	Benzyl Chloride	1.7	1.7	0.18	0.32	0.32	0.035	**U**
541-73-1	1,3-Dichlorobenzene	0.79	0.79	0.12	0.13	0.13	0.020	**U**
106-46-7	1,4-Dichlorobenzene	0.79	0.79	0.12	0.13	0.13	0.021	**U**
95-50-1	1,2-Dichlorobenzene	0.81	0.81	0.12	0.13	0.13	0.020	**U**
120-82-1	1,2,4-Trichlorobenzene	1.7	1.7	0.20	0.23	0.23	0.027	**U**
91-20-3	Naphthalene	**0.79**	0.79	0.20	**0.15**	0.15	0.038	**J**
87-68-3	Hexachlorobutadiene	0.79	0.79	0.17	0.074	0.074	0.016	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-IA-01** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-006

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS01583

Initial Pressure (psig): -2.40 Final Pressure (psig): 3.83

Canister Dilution Factor: 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**40**	0.79	0.20	**23**	0.46	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.2**	0.80	0.13	**0.45**	0.16	0.027	
74-87-3	Chloromethane	**0.43**	0.77	0.13	**0.21**	0.37	0.063	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.82	0.82	0.13	0.12	0.12	0.018	**U**
75-01-4	Vinyl Chloride	0.79	0.79	0.086	0.31	0.31	0.034	**U**
106-99-0	1,3-Butadiene	0.79	0.79	0.13	0.36	0.36	0.060	**U**
74-83-9	Bromomethane	0.77	0.77	0.11	0.20	0.20	0.029	**U**
75-00-3	Chloroethane	0.77	0.77	0.10	0.29	0.29	0.038	**U**
67-64-1	Acetone	**19**	7.9	1.8	**7.9**	3.3	0.76	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.2**	0.79	0.12	**0.21**	0.14	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**180**	1.5	0.33	**73**	0.61	0.14	
75-35-4	1,1-Dichloroethene	0.82	0.82	0.11	0.21	0.21	0.028	**U**
75-09-2	Methylene Chloride	**0.34**	0.79	0.23	**0.098**	0.23	0.065	**J**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.46**	0.82	0.11	**0.060**	0.11	0.015	**J**
75-15-0	Carbon Disulfide	1.7	1.7	0.24	0.53	0.53	0.078	**U**
156-60-5	trans-1,2-Dichloroethene	0.80	0.80	0.11	0.20	0.20	0.028	**U**
75-34-3	1,1-Dichloroethane	0.80	0.80	0.12	0.20	0.20	0.029	**U**
1634-04-4	Methyl tert-Butyl Ether	0.80	0.80	0.095	0.22	0.22	0.026	**U**
78-93-3	2-Butanone (MEK)	**1.4**	1.5	0.17	**0.49**	0.51	0.056	**J, B**
156-59-2	cis-1,2-Dichloroethene	0.79	0.79	0.11	0.20	0.20	0.029	**U**
141-78-6	Ethyl Acetate	3.2	3.2	0.42	0.88	0.88	0.12	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Tetra Tech**

Client Sample ID: **PC-IA-01** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-006

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01583

Initial Pressure (psig): -2.40 Final Pressure (psig): 3.83

Canister Dilution Factor: 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	**0.39**	0.80	0.17	**0.11**	0.23	0.047	**J**
67-66-3	Chloroform	0.82	0.82	0.11	0.17	0.17	0.022	**U**
109-99-9	Tetrahydrofuran (THF)	1.5	1.5	0.10	0.51	0.51	0.034	**U**
107-06-2	1,2-Dichloroethane	**0.11**	0.80	0.089	**0.028**	0.20	0.022	**J**
71-55-6	1,1,1-Trichloroethane	0.79	0.79	0.10	0.14	0.14	0.018	**U**
71-43-2	Benzene	**0.44**	0.76	0.12	**0.14**	0.24	0.036	**J**
56-23-5	Carbon Tetrachloride	**0.43**	0.76	0.11	**0.068**	0.12	0.018	**J**
110-82-7	Cyclohexane	1.7	1.7	0.23	0.48	0.48	0.066	**U**
78-87-5	1,2-Dichloropropane	0.76	0.76	0.10	0.16	0.16	0.022	**U**
75-27-4	Bromodichloromethane	0.80	0.80	0.12	0.12	0.12	0.017	**U**
79-01-6	Trichloroethene	0.79	0.79	0.11	0.15	0.15	0.020	**U**
123-91-1	1,4-Dioxane	0.79	0.79	0.095	0.22	0.22	0.026	**U**
142-82-5	n-Heptane	**0.19**	0.80	0.13	**0.045**	0.20	0.031	**J**
10061-01-5	cis-1,3-Dichloropropene	0.76	0.76	0.13	0.17	0.17	0.028	**U**
108-10-1	4-Methyl-2-pentanone	1.7	1.7	0.11	0.41	0.41	0.027	**U**
10061-02-6	trans-1,3-Dichloropropene	0.77	0.77	0.17	0.17	0.17	0.037	**U**
79-00-5	1,1,2-Trichloroethane	0.79	0.79	0.082	0.14	0.14	0.015	**U**
108-88-3	Toluene	**1.2**	0.79	0.098	**0.32**	0.21	0.026	
591-78-6	2-Hexanone	**0.14**	1.7	0.10	**0.034**	0.41	0.024	**J**
124-48-1	Dibromochloromethane	0.80	0.80	0.11	0.094	0.094	0.012	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **PC-IA-01** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-006

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01583

Initial Pressure (psig): -2.40 Final Pressure (psig): 3.83

Canister Dilution Factor: 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.79	0.79	0.094	0.10	0.10	0.012	**U**
127-18-4	Tetrachloroethene	0.79	0.79	0.10	0.12	0.12	0.015	**U**
108-90-7	Chlorobenzene	0.79	0.79	0.11	0.17	0.17	0.023	**U**
100-41-4	Ethylbenzene	**0.18**	0.79	0.11	**0.040**	0.18	0.026	**J**
179601-23-1	m,p-Xylenes	**0.54**	1.7	0.21	**0.12**	0.38	0.049	**J**
75-25-2	Bromoform	0.79	0.79	0.17	0.076	0.076	0.016	**U**
100-42-5	Styrene	**0.21**	0.76	0.13	**0.049**	0.18	0.031	**J**
95-47-6	o-Xylene	**0.23**	0.79	0.12	**0.054**	0.18	0.027	**J**
79-34-5	1,1,2,2-Tetrachloroethane	0.79	0.79	0.11	0.11	0.11	0.016	**U**
98-82-8	Cumene	0.79	0.79	0.12	0.16	0.16	0.024	**U**
622-96-8	4-Ethyltoluene	0.80	0.80	0.13	0.16	0.16	0.026	**U**
108-67-8	1,3,5-Trimethylbenzene	0.79	0.79	0.12	0.16	0.16	0.024	**U**
95-63-6	1,2,4-Trimethylbenzene	**0.23**	0.79	0.11	**0.046**	0.16	0.023	**J**
100-44-7	Benzyl Chloride	1.7	1.7	0.18	0.32	0.32	0.035	**U**
541-73-1	1,3-Dichlorobenzene	0.79	0.79	0.12	0.13	0.13	0.020	**U**
106-46-7	1,4-Dichlorobenzene	0.79	0.79	0.12	0.13	0.13	0.021	**U**
95-50-1	1,2-Dichlorobenzene	0.80	0.80	0.12	0.13	0.13	0.020	**U**
120-82-1	1,2,4-Trichlorobenzene	1.7	1.7	0.20	0.22	0.22	0.026	**U**
91-20-3	Naphthalene	**1.1**	0.79	0.20	**0.21**	0.15	0.037	
87-68-3	Hexachlorobutadiene	0.79	0.79	0.17	0.074	0.074	0.016	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-IA-02** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-007

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02136

Initial Pressure (psig): -2.23 Final Pressure (psig): 4.38

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**23**	0.80	0.20	**13**	0.46	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.3**	0.81	0.13	**0.46**	0.16	0.027	
74-87-3	Chloromethane	**0.47**	0.78	0.13	**0.23**	0.38	0.064	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.83	0.83	0.13	0.12	0.12	0.018	**U**
75-01-4	Vinyl Chloride	0.80	0.80	0.087	0.31	0.31	0.034	**U**
106-99-0	1,3-Butadiene	0.80	0.80	0.13	0.36	0.36	0.061	**U**
74-83-9	Bromomethane	0.78	0.78	0.11	0.20	0.20	0.029	**U**
75-00-3	Chloroethane	0.78	0.78	0.10	0.30	0.30	0.038	**U**
67-64-1	Acetone	**29**	8.0	1.8	**12**	3.4	0.77	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.1**	0.80	0.12	**0.20**	0.14	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	**74**	1.5	0.34	**30**	0.62	0.14	
75-35-4	1,1-Dichloroethene	0.83	0.83	0.11	0.21	0.21	0.029	**U**
75-09-2	Methylene Chloride	**0.45**	0.80	0.23	**0.13**	0.23	0.066	**J**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.51**	0.83	0.12	**0.066**	0.11	0.015	**J**
75-15-0	Carbon Disulfide	**0.42**	1.7	0.24	**0.14**	0.54	0.079	**J**
156-60-5	trans-1,2-Dichloroethene	**0.14**	0.81	0.11	**0.036**	0.20	0.029	**J**
75-34-3	1,1-Dichloroethane	0.81	0.81	0.12	0.20	0.20	0.029	**U**
1634-04-4	Methyl tert-Butyl Ether	0.81	0.81	0.096	0.23	0.23	0.027	**U**
78-93-3	2-Butanone (MEK)	**6.0**	1.5	0.17	**2.0**	0.52	0.057	**B**
156-59-2	cis-1,2-Dichloroethene	0.80	0.80	0.11	0.20	0.20	0.029	**U**
141-78-6	Ethyl Acetate	**3.8**	3.2	0.43	**1.1**	0.89	0.12	

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Tetra Tech**

Client Sample ID: **PC-IA-02** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-007

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02136

Initial Pressure (psig): -2.23 Final Pressure (psig): 4.38

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	**2.4**	0.81	0.17	**0.69**	0.23	0.048	
67-66-3	Chloroform	0.83	0.83	0.11	0.17	0.17	0.022	**U**
109-99-9	Tetrahydrofuran (THF)	**1.0**	1.5	0.10	**0.34**	0.52	0.035	**J**
107-06-2	1,2-Dichloroethane	0.81	0.81	0.090	0.20	0.20	0.022	**U**
71-55-6	1,1,1-Trichloroethane	0.80	0.80	0.10	0.15	0.15	0.019	**U**
71-43-2	Benzene	**0.46**	0.77	0.12	**0.15**	0.24	0.037	**J**
56-23-5	Carbon Tetrachloride	**0.41**	0.77	0.11	**0.066**	0.12	0.018	**J**
110-82-7	Cyclohexane	**1.2**	1.7	0.23	**0.34**	0.49	0.067	**J**
78-87-5	1,2-Dichloropropane	**0.15**	0.77	0.10	**0.033**	0.17	0.022	**J**
75-27-4	Bromodichloromethane	0.81	0.81	0.12	0.12	0.12	0.018	**U**
79-01-6	Trichloroethene	**0.20**	0.80	0.11	**0.038**	0.15	0.021	**J**
123-91-1	1,4-Dioxane	0.80	0.80	0.096	0.22	0.22	0.027	**U**
142-82-5	n-Heptane	**1.2**	0.81	0.13	**0.28**	0.20	0.032	
10061-01-5	cis-1,3-Dichloropropene	0.77	0.77	0.13	0.17	0.17	0.028	**U**
108-10-1	4-Methyl-2-pentanone	**0.85**	1.7	0.11	**0.21**	0.41	0.027	**J**
10061-02-6	trans-1,3-Dichloropropene	0.78	0.78	0.17	0.17	0.17	0.037	**U**
79-00-5	1,1,2-Trichloroethane	0.80	0.80	0.083	0.15	0.15	0.015	**U**
108-88-3	Toluene	**14**	0.80	0.099	**3.8**	0.21	0.026	
591-78-6	2-Hexanone	**0.29**	1.7	0.10	**0.072**	0.41	0.025	**J**
124-48-1	Dibromochloromethane	0.81	0.81	0.11	0.095	0.095	0.013	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **PC-IA-02** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-007

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02136

Initial Pressure (psig): -2.23 Final Pressure (psig): 4.38

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.80	0.80	0.095	0.10	0.10	0.012	**U**
127-18-4	Tetrachloroethene	0.80	0.80	0.11	0.12	0.12	0.016	**U**
108-90-7	Chlorobenzene	0.80	0.80	0.11	0.17	0.17	0.024	**U**
100-41-4	Ethylbenzene	**0.94**	0.80	0.11	**0.22**	0.18	0.026	
179601-23-1	m,p-Xylenes	**2.7**	1.7	0.21	**0.62**	0.39	0.049	
75-25-2	Bromoform	0.80	0.80	0.17	0.077	0.077	0.016	**U**
100-42-5	Styrene	**0.50**	0.77	0.13	**0.12**	0.18	0.031	**J**
95-47-6	o-Xylene	**1.5**	0.80	0.12	**0.35**	0.18	0.027	
79-34-5	1,1,2,2-Tetrachloroethane	0.80	0.80	0.11	0.12	0.12	0.016	**U**
98-82-8	Cumene	0.80	0.80	0.12	0.16	0.16	0.024	**U**
622-96-8	4-Ethyltoluene	0.81	0.81	0.13	0.17	0.17	0.026	**U**
108-67-8	1,3,5-Trimethylbenzene	0.80	0.80	0.12	0.16	0.16	0.024	**U**
95-63-6	1,2,4-Trimethylbenzene	**0.40**	0.80	0.11	**0.082**	0.16	0.023	**J**
100-44-7	Benzyl Chloride	1.7	1.7	0.18	0.33	0.33	0.035	**U**
541-73-1	1,3-Dichlorobenzene	0.80	0.80	0.12	0.13	0.13	0.020	**U**
106-46-7	1,4-Dichlorobenzene	0.80	0.80	0.13	0.13	0.13	0.021	**U**
95-50-1	1,2-Dichlorobenzene	0.81	0.81	0.12	0.13	0.13	0.020	**U**
120-82-1	1,2,4-Trichlorobenzene	1.7	1.7	0.20	0.23	0.23	0.027	**U**
91-20-3	Naphthalene	**0.27**	0.80	0.20	**0.052**	0.15	0.038	**J**
87-68-3	Hexachlorobutadiene	0.80	0.80	0.17	0.075	0.075	0.016	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-IA-02-DUP** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-008

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Chase Griffin Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01836

Initial Pressure (psig): -2.12 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**19**	0.76	0.19	**11**	0.44	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	0.77	0.13	**0.43**	0.16	0.026	
74-87-3	Chloromethane	**0.45**	0.74	0.13	**0.22**	0.36	0.061	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.79	0.79	0.12	0.11	0.11	0.018	**U**
75-01-4	Vinyl Chloride	0.76	0.76	0.083	0.30	0.30	0.033	**U**
106-99-0	1,3-Butadiene	0.76	0.76	0.13	0.34	0.34	0.058	**U**
74-83-9	Bromomethane	0.74	0.74	0.11	0.19	0.19	0.028	**U**
75-00-3	Chloroethane	0.74	0.74	0.096	0.28	0.28	0.037	**U**
67-64-1	Acetone	**15**	7.6	1.8	**6.3**	3.2	0.74	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.1**	0.76	0.12	**0.19**	0.14	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**69**	1.5	0.32	**28**	0.59	0.13	
75-35-4	1,1-Dichloroethene	0.79	0.79	0.11	0.20	0.20	0.027	**U**
75-09-2	Methylene Chloride	**0.29**	0.76	0.22	**0.082**	0.22	0.063	**J**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.49**	0.79	0.11	**0.063**	0.10	0.014	**J**
75-15-0	Carbon Disulfide	1.6	1.6	0.23	0.52	0.52	0.075	**U**
156-60-5	trans-1,2-Dichloroethene	0.77	0.77	0.11	0.20	0.20	0.027	**U**
75-34-3	1,1-Dichloroethane	0.77	0.77	0.11	0.19	0.19	0.028	**U**
1634-04-4	Methyl tert-Butyl Ether	0.77	0.77	0.092	0.21	0.21	0.026	**U**
78-93-3	2-Butanone (MEK)	**1.3**	1.5	0.16	**0.44**	0.50	0.054	**J, B**
156-59-2	cis-1,2-Dichloroethene	0.76	0.76	0.11	0.19	0.19	0.028	**U**
141-78-6	Ethyl Acetate	**0.54**	3.1	0.41	**0.15**	0.85	0.11	**J**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Tetra Tech**

Client Sample ID: **PC-IA-02-DUP** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-008

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Chase Griffin Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01836

Initial Pressure (psig): -2.12 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	**0.96**	0.77	0.16	**0.27**	0.22	0.046	
67-66-3	Chloroform	0.79	0.79	0.10	0.16	0.16	0.021	**U**
109-99-9	Tetrahydrofuran (THF)	1.5	1.5	0.098	0.50	0.50	0.033	**U**
107-06-2	1,2-Dichloroethane	0.77	0.77	0.086	0.19	0.19	0.021	**U**
71-55-6	1,1,1-Trichloroethane	0.76	0.76	0.096	0.14	0.14	0.018	**U**
71-43-2	Benzene	**0.54**	0.73	0.11	**0.17**	0.23	0.035	**J**
56-23-5	Carbon Tetrachloride	**0.41**	0.73	0.11	**0.065**	0.12	0.017	**J**
110-82-7	Cyclohexane	**0.29**	1.6	0.22	**0.083**	0.47	0.064	**J**
78-87-5	1,2-Dichloropropane	0.73	0.73	0.096	0.16	0.16	0.021	**U**
75-27-4	Bromodichloromethane	0.77	0.77	0.11	0.12	0.12	0.017	**U**
79-01-6	Trichloroethene	0.76	0.76	0.11	0.14	0.14	0.020	**U**
123-91-1	1,4-Dioxane	0.76	0.76	0.092	0.21	0.21	0.026	**U**
142-82-5	n-Heptane	**0.36**	0.77	0.12	**0.088**	0.19	0.030	**J**
10061-01-5	cis-1,3-Dichloropropene	0.73	0.73	0.12	0.16	0.16	0.027	**U**
108-10-1	4-Methyl-2-pentanone	**0.35**	1.6	0.11	**0.086**	0.39	0.026	**J**
10061-02-6	trans-1,3-Dichloropropene	0.74	0.74	0.16	0.16	0.16	0.035	**U**
79-00-5	1,1,2-Trichloroethane	0.76	0.76	0.079	0.14	0.14	0.014	**U**
108-88-3	Toluene	**2.0**	0.76	0.095	**0.52**	0.20	0.025	
591-78-6	2-Hexanone	**0.18**	1.6	0.096	**0.044**	0.39	0.024	**J**
124-48-1	Dibromochloromethane	0.77	0.77	0.10	0.091	0.091	0.012	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **PC-IA-02-DUP** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-008

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Chase Griffin Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01836

Initial Pressure (psig): -2.12 Final Pressure (psig): 3.70

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.76	0.76	0.091	0.099	0.099	0.012	**U**
127-18-4	Tetrachloroethene	0.76	0.76	0.10	0.11	0.11	0.015	**U**
108-90-7	Chlorobenzene	0.76	0.76	0.10	0.16	0.16	0.023	**U**
100-41-4	Ethylbenzene	**0.33**	0.76	0.11	**0.077**	0.17	0.025	**J**
179601-23-1	m,p-Xylenes	**0.93**	1.6	0.20	**0.21**	0.37	0.047	**J**
75-25-2	Bromoform	0.76	0.76	0.16	0.073	0.073	0.016	**U**
100-42-5	Styrene	**0.21**	0.73	0.13	**0.050**	0.17	0.030	**J**
95-47-6	o-Xylene	**0.35**	0.76	0.11	**0.082**	0.17	0.026	**J**
79-34-5	1,1,2,2-Tetrachloroethane	0.76	0.76	0.11	0.11	0.11	0.016	**U**
98-82-8	Cumene	0.76	0.76	0.11	0.15	0.15	0.023	**U**
622-96-8	4-Ethyltoluene	0.77	0.77	0.12	0.16	0.16	0.025	**U**
108-67-8	1,3,5-Trimethylbenzene	0.76	0.76	0.11	0.15	0.15	0.023	**U**
95-63-6	1,2,4-Trimethylbenzene	**0.32**	0.76	0.11	**0.065**	0.15	0.022	**J**
100-44-7	Benzyl Chloride	1.6	1.6	0.18	0.31	0.31	0.034	**U**
541-73-1	1,3-Dichlorobenzene	0.76	0.76	0.12	0.13	0.13	0.019	**U**
106-46-7	1,4-Dichlorobenzene	0.76	0.76	0.12	0.13	0.13	0.020	**U**
95-50-1	1,2-Dichlorobenzene	0.77	0.77	0.12	0.13	0.13	0.019	**U**
120-82-1	1,2,4-Trichlorobenzene	1.6	1.6	0.19	0.22	0.22	0.026	**U**
91-20-3	Naphthalene	**0.43**	0.76	0.19	**0.082**	0.14	0.036	**J**
87-68-3	Hexachlorobutadiene	0.76	0.76	0.16	0.071	0.071	0.015	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech**
Client Sample ID: **PC-IA-03** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-009

Test Code: EPA TO-15 Date Collected: 9/13/22
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22
Analyst: Chase Griffin Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01862

Initial Pressure (psig): -2.16 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**5.2**	0.77	0.19	**3.0**	0.45	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.3**	0.79	0.13	**0.46**	0.16	0.026	
74-87-3	Chloromethane	**0.46**	0.76	0.13	**0.22**	0.37	0.062	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.80	0.80	0.13	0.12	0.12	0.018	**U**
75-01-4	Vinyl Chloride	0.77	0.77	0.085	0.30	0.30	0.033	**U**
106-99-0	1,3-Butadiene	0.77	0.77	0.13	0.35	0.35	0.059	**U**
74-83-9	Bromomethane	0.76	0.76	0.11	0.20	0.20	0.028	**U**
75-00-3	Chloroethane	0.76	0.76	0.098	0.29	0.29	0.037	**U**
67-64-1	Acetone	**13**	7.7	1.8	**5.5**	3.3	0.75	
75-69-4	Trichlorofluoromethane (CFC 11)	**1.1**	0.77	0.12	**0.20**	0.14	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	**13**	1.5	0.33	**5.2**	0.61	0.13	
75-35-4	1,1-Dichloroethene	0.80	0.80	0.11	0.20	0.20	0.028	**U**
75-09-2	Methylene Chloride	**0.25**	0.77	0.22	**0.071**	0.22	0.064	**J**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.48**	0.80	0.11	**0.063**	0.11	0.015	**J**
75-15-0	Carbon Disulfide	1.6	1.6	0.24	0.53	0.53	0.077	**U**
156-60-5	trans-1,2-Dichloroethene	0.79	0.79	0.11	0.20	0.20	0.028	**U**
75-34-3	1,1-Dichloroethane	0.79	0.79	0.12	0.20	0.20	0.029	**U**
1634-04-4	Methyl tert-Butyl Ether	0.79	0.79	0.094	0.22	0.22	0.026	**U**
78-93-3	2-Butanone (MEK)	**1.2**	1.5	0.16	**0.41**	0.51	0.056	**J, B**
156-59-2	cis-1,2-Dichloroethene	0.77	0.77	0.11	0.20	0.20	0.028	**U**
141-78-6	Ethyl Acetate	3.1	3.1	0.42	0.87	0.87	0.12	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
B = Analyte detected in both the sample and associated method blank.

Client: **Tetra Tech**

Client Sample ID: **PC-IA-03** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-009

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Chase Griffin Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01862

Initial Pressure (psig): -2.16 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	**0.41**	0.79	0.16	**0.12**	0.22	0.047	**J**
67-66-3	Chloroform	0.80	0.80	0.11	0.16	0.16	0.022	**U**
109-99-9	Tetrahydrofuran (THF)	1.5	1.5	0.10	0.51	0.51	0.034	**U**
107-06-2	1,2-Dichloroethane	0.79	0.79	0.088	0.20	0.20	0.022	**U**
71-55-6	1,1,1-Trichloroethane	0.77	0.77	0.098	0.14	0.14	0.018	**U**
71-43-2	Benzene	**0.45**	0.75	0.11	**0.14**	0.23	0.036	**J**
56-23-5	Carbon Tetrachloride	**0.43**	0.75	0.11	**0.069**	0.12	0.018	**J**
110-82-7	Cyclohexane	1.6	1.6	0.22	0.48	0.48	0.065	**U**
78-87-5	1,2-Dichloropropane	0.75	0.75	0.098	0.16	0.16	0.021	**U**
75-27-4	Bromodichloromethane	0.79	0.79	0.11	0.12	0.12	0.017	**U**
79-01-6	Trichloroethene	0.77	0.77	0.11	0.14	0.14	0.020	**U**
123-91-1	1,4-Dioxane	0.77	0.77	0.094	0.22	0.22	0.026	**U**
142-82-5	n-Heptane	**0.13**	0.79	0.13	**0.032**	0.19	0.031	**J**
10061-01-5	cis-1,3-Dichloropropene	0.75	0.75	0.12	0.16	0.16	0.027	**U**
108-10-1	4-Methyl-2-pentanone	**0.12**	1.6	0.11	**0.030**	0.40	0.027	**J**
10061-02-6	trans-1,3-Dichloropropene	0.76	0.76	0.16	0.17	0.17	0.036	**U**
79-00-5	1,1,2-Trichloroethane	0.77	0.77	0.080	0.14	0.14	0.015	**U**
108-88-3	Toluene	**1.1**	0.77	0.097	**0.29**	0.21	0.026	
591-78-6	2-Hexanone	**0.15**	1.6	0.098	**0.037**	0.40	0.024	**J**
124-48-1	Dibromochloromethane	0.79	0.79	0.10	0.093	0.093	0.012	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **PC-IA-03** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P2204136-009

Test Code: EPA TO-15 Date Collected: 9/13/22

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 9/19/22

Analyst: Chase Griffin Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01862

Initial Pressure (psig): -2.16 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.77	0.77	0.092	0.10	0.10	0.012	**U**
127-18-4	Tetrachloroethene	0.77	0.77	0.10	0.11	0.11	0.015	**U**
108-90-7	Chlorobenzene	0.77	0.77	0.11	0.17	0.17	0.023	**U**
100-41-4	Ethylbenzene	**0.14**	0.77	0.11	**0.033**	0.18	0.026	**J**
179601-23-1	m,p-Xylenes	**0.45**	1.6	0.21	**0.10**	0.38	0.048	**J**
75-25-2	Bromoform	0.77	0.77	0.16	0.075	0.075	0.016	**U**
100-42-5	Styrene	**0.19**	0.75	0.13	**0.044**	0.18	0.030	**J**
95-47-6	o-Xylene	**0.19**	0.77	0.11	**0.044**	0.18	0.026	**J**
79-34-5	1,1,2,2-Tetrachloroethane	0.77	0.77	0.11	0.11	0.11	0.016	**U**
98-82-8	Cumene	0.77	0.77	0.11	0.16	0.16	0.023	**U**
622-96-8	4-Ethyltoluene	0.79	0.79	0.13	0.16	0.16	0.026	**U**
108-67-8	1,3,5-Trimethylbenzene	0.77	0.77	0.11	0.16	0.16	0.023	**U**
95-63-6	1,2,4-Trimethylbenzene	**0.26**	0.77	0.11	**0.053**	0.16	0.022	**J**
100-44-7	Benzyl Chloride	1.6	1.6	0.18	0.32	0.32	0.035	**U**
541-73-1	1,3-Dichlorobenzene	0.77	0.77	0.12	0.13	0.13	0.020	**U**
106-46-7	1,4-Dichlorobenzene	0.77	0.77	0.12	0.13	0.13	0.020	**U**
95-50-1	1,2-Dichlorobenzene	0.79	0.79	0.12	0.13	0.13	0.020	**U**
120-82-1	1,2,4-Trichlorobenzene	1.6	1.6	0.19	0.22	0.22	0.026	**U**
91-20-3	Naphthalene	**0.32**	0.77	0.19	**0.061**	0.15	0.037	**J**
87-68-3	Hexachlorobutadiene	0.77	0.77	0.16	0.073	0.073	0.015	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **Method Blank** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P220926-MB

Test Code: EPA TO-15 Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.52	0.52	0.13	0.30	0.30	0.076	**U**
75-71-8	Dichlorodifluoromethane (CFC 12)	0.53	0.53	0.087	0.11	0.11	0.018	**U**
74-87-3	Chloromethane	0.51	0.51	0.086	0.25	0.25	0.042	**U**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.54	0.54	0.084	0.077	0.077	0.012	**U**
75-01-4	Vinyl Chloride	0.52	0.52	0.057	0.20	0.20	0.022	**U**
106-99-0	1,3-Butadiene	0.52	0.52	0.088	0.24	0.24	0.040	**U**
74-83-9	Bromomethane	0.51	0.51	0.074	0.13	0.13	0.019	**U**
75-00-3	Chloroethane	0.51	0.51	0.066	0.19	0.19	0.025	**U**
67-64-1	Acetone	5.2	5.2	1.2	2.2	2.2	0.51	**U**
75-69-4	Trichlorofluoromethane (CFC 11)	0.52	0.52	0.081	0.093	0.093	0.014	**U**
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	1.0	0.22	0.41	0.41	0.090	**U**
75-35-4	1,1-Dichloroethene	0.54	0.54	0.074	0.14	0.14	0.019	**U**
75-09-2	Methylene Chloride	0.52	0.52	0.15	0.15	0.15	0.043	**U**
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.54	0.54	0.076	0.070	0.070	0.0099	**U**
75-15-0	Carbon Disulfide	1.1	1.1	0.16	0.35	0.35	0.051	**U**
156-60-5	trans-1,2-Dichloroethene	0.53	0.53	0.074	0.13	0.13	0.019	**U**
75-34-3	1,1-Dichloroethane	0.53	0.53	0.078	0.13	0.13	0.019	**U**
1634-04-4	Methyl tert-Butyl Ether	0.53	0.53	0.063	0.15	0.15	0.017	**U**
78-93-3	2-Butanone (MEK)	**0.11**	1.0	0.11	**0.037**	0.34	0.037	**J**
156-59-2	cis-1,2-Dichloroethene	0.52	0.52	0.075	0.13	0.13	0.019	**U**
141-78-6	Ethyl Acetate	2.1	2.1	0.28	0.58	0.58	0.078	**U**

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Client: **Tetra Tech**

Client Sample ID: **Method Blank** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P220926-MB

Test Code: EPA TO-15 Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
110-54-3	n-Hexane	0.53	0.53	0.11	0.15	0.15	0.031	U
67-66-3	Chloroform	0.54	0.54	0.071	0.11	0.11	0.015	U
109-99-9	Tetrahydrofuran (THF)	1.0	1.0	0.067	0.34	0.34	0.023	U
107-06-2	1,2-Dichloroethane	0.53	0.53	0.059	0.13	0.13	0.015	U
71-55-6	1,1,1-Trichloroethane	0.52	0.52	0.066	0.095	0.095	0.012	U
71-43-2	Benzene	0.50	0.50	0.077	0.16	0.16	0.024	U
56-23-5	Carbon Tetrachloride	0.50	0.50	0.074	0.080	0.080	0.012	U
110-82-7	Cyclohexane	1.1	1.1	0.15	0.32	0.32	0.044	U
78-87-5	1,2-Dichloropropane	0.50	0.50	0.066	0.11	0.11	0.014	U
75-27-4	Bromodichloromethane	0.53	0.53	0.077	0.079	0.079	0.011	U
79-01-6	Trichloroethene	0.52	0.52	0.072	0.097	0.097	0.013	U
123-91-1	1,4-Dioxane	0.52	0.52	0.063	0.14	0.14	0.017	U
142-82-5	n-Heptane	0.53	0.53	0.085	0.13	0.13	0.021	U
10061-01-5	cis-1,3-Dichloropropene	0.50	0.50	0.083	0.11	0.11	0.018	U
108-10-1	4-Methyl-2-pentanone	1.1	1.1	0.073	0.27	0.27	0.018	U
10061-02-6	trans-1,3-Dichloropropene	0.51	0.51	0.11	0.11	0.11	0.024	U
79-00-5	1,1,2-Trichloroethane	0.52	0.52	0.054	0.095	0.095	0.0099	U
108-88-3	Toluene	0.52	0.52	0.065	0.14	0.14	0.017	U
591-78-6	2-Hexanone	1.1	1.1	0.066	0.27	0.27	0.016	U
124-48-1	Dibromochloromethane	0.53	0.53	0.070	0.062	0.062	0.0082	U

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

Client: **Tetra Tech**

Client Sample ID: **Method Blank** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P220926-MB

Test Code: EPA TO-15 Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
106-93-4	1,2-Dibromoethane	0.52	0.52	0.062	0.068	0.068	0.0081	U
127-18-4	Tetrachloroethene	0.52	0.52	0.069	0.077	0.077	0.010	U
108-90-7	Chlorobenzene	0.52	0.52	0.071	0.11	0.11	0.015	U
100-41-4	Ethylbenzene	0.52	0.52	0.075	0.12	0.12	0.017	U
179601-23-1	m,p-Xylenes	1.1	1.1	0.14	0.25	0.25	0.032	U
75-25-2	Bromoform	0.52	0.52	0.11	0.050	0.050	0.011	U
100-42-5	Styrene	0.50	0.50	0.086	0.12	0.12	0.020	U
95-47-6	o-Xylene	0.52	0.52	0.077	0.12	0.12	0.018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.52	0.52	0.074	0.076	0.076	0.011	U
98-82-8	Cumene	0.52	0.52	0.077	0.11	0.11	0.016	U
622-96-8	4-Ethyltoluene	0.53	0.53	0.085	0.11	0.11	0.017	U
108-67-8	1,3,5-Trimethylbenzene	0.52	0.52	0.077	0.11	0.11	0.016	U
95-63-6	1,2,4-Trimethylbenzene	0.52	0.52	0.074	0.11	0.11	0.015	U
100-44-7	Benzyl Chloride	1.1	1.1	0.12	0.21	0.21	0.023	U
541-73-1	1,3-Dichlorobenzene	0.52	0.52	0.080	0.087	0.087	0.013	U
106-46-7	1,4-Dichlorobenzene	0.52	0.52	0.082	0.087	0.087	0.014	U
95-50-1	1,2-Dichlorobenzene	0.53	0.53	0.079	0.088	0.088	0.013	U
120-82-1	1,2,4-Trichlorobenzene	1.1	1.1	0.13	0.15	0.15	0.018	U
91-20-3	Naphthalene	0.52	0.52	0.13	0.099	0.099	0.025	U
87-68-3	Hexachlorobutadiene	0.52	0.52	0.11	0.049	0.049	0.010	U

U = Compound was analyzed for, but not detected above the laboratory detection limit.

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

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Tetra Tech**

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Project ID: P2204136

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 9/13/22
Analyst: Wida Ang Date(s) Received: 9/19/22
Sample Type: 6.0 L Summa Canister(s) / 6.0 L Silonite Canister(s) Date(s) Analyzed: 9/26/22
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P220926-MB	**98**	**104**	**104**	70-130	
Lab Control Sample	P220926-LCS	**97**	**103**	**105**	70-130	
Duplicate Lab Control Sample	P220926-DLCS	**98**	**103**	**104**	70-130	
PC-SG-01	P2204136-001	**100**	**106**	**101**	70-130	
PC-AMB-01	P2204136-002	**99**	**105**	**102**	70-130	
PC-SG-02	P2204136-003	**98**	**105**	**100**	70-130	
PC-SG-03	P2204136-004	**99**	**104**	**100**	70-130	
PC-SG-03-DUP	P2204136-005	**98**	**106**	**100**	70-130	
PC-IA-01	P2204136-006	**98**	**108**	**101**	70-130	
PC-IA-02	P2204136-007	**97**	**107**	**100**	70-130	
PC-IA-02-DUP	P2204136-008	**97**	**108**	**101**	70-130	
PC-IA-03	P2204136-009	**97**	**108**	**100**	70-130	

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

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **Tetra Tech**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P220926-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
115-07-1	Propene	212	202	203	**95**	**96**	56-128	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	212	192	191	**91**	**90**	71-112	1	25	
74-87-3	Chloromethane	206	192	194	**93**	**94**	53-126	1	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	206	194	195	**94**	**95**	62-121	1	25	
75-01-4	Vinyl Chloride	204	187	192	**92**	**94**	63-123	2	25	
106-99-0	1,3-Butadiene	212	209	215	**99**	**101**	63-135	2	25	
74-83-9	Bromomethane	206	195	196	**95**	**95**	71-112	0	25	
75-00-3	Chloroethane	208	188	190	**90**	**91**	66-117	1	25	
67-64-1	Acetone	1,060	891	905	**84**	**85**	60-117	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	210	188	187	**90**	**89**	71-114	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	412	354	360	**86**	**87**	61-124	1	25	
75-35-4	1,1-Dichloroethene	216	201	202	**93**	**94**	74-114	1	25	
75-09-2	Methylene Chloride	212	194	196	**92**	**92**	75-112	0	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	216	203	203	**94**	**94**	73-114	0	25	
75-15-0	Carbon Disulfide	426	391	394	**92**	**92**	70-113	0	25	
156-60-5	trans-1,2-Dichloroethene	216	202	204	**94**	**94**	76-119	0	25	
75-34-3	1,1-Dichloroethane	216	196	198	**91**	**92**	70-114	1	25	
1634-04-4	Methyl tert-Butyl Ether	214	202	205	**94**	**96**	72-118	2	25	
78-93-3	2-Butanone (MEK)	418	401	404	**96**	**97**	74-121	1	25	
156-59-2	cis-1,2-Dichloroethene	214	195	197	**91**	**92**	73-117	1	25	
141-78-6	Ethyl Acetate	856	559	566	**65**	**66**	59-161	2	25	

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

Client: **Tetra Tech**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P220926-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
110-54-3	n-Hexane	212	189	191	**89**	**90**	55-130	1	25	
67-66-3	Chloroform	212	195	196	**92**	**92**	71-114	0	25	
109-99-9	Tetrahydrofuran (THF)	412	394	399	**96**	**97**	73-114	1	25	
107-06-2	1,2-Dichloroethane	216	199	199	**92**	**92**	71-119	0	25	
71-55-6	1,1,1-Trichloroethane	210	200	200	**95**	**95**	73-119	0	25	
71-43-2	Benzene	216	196	197	**91**	**91**	72-113	0	25	
56-23-5	Carbon Tetrachloride	206	195	194	**95**	**94**	67-123	1	25	
110-82-7	Cyclohexane	422	390	392	**92**	**93**	70-119	1	25	
78-87-5	1,2-Dichloropropane	212	191	194	**90**	**92**	70-118	2	25	
75-27-4	Bromodichloromethane	216	210	209	**97**	**97**	74-119	0	25	
79-01-6	Trichloroethene	212	204	204	**96**	**96**	74-115	0	25	
123-91-1	1,4-Dioxane	212	210	212	**99**	**100**	77-124	1	25	
142-82-5	n-Heptane	212	200	200	**94**	**94**	70-119	0	25	
10061-01-5	cis-1,3-Dichloropropene	216	220	220	**102**	**102**	81-126	0	25	
108-10-1	4-Methyl-2-pentanone	432	416	420	**96**	**97**	73-129	1	25	
10061-02-6	trans-1,3-Dichloropropene	206	222	223	**108**	**108**	80-127	0	25	
79-00-5	1,1,2-Trichloroethane	212	202	203	**95**	**96**	78-117	1	25	
108-88-3	Toluene	212	206	207	**97**	**98**	70-118	1	25	
591-78-6	2-Hexanone	426	427	435	**100**	**102**	74-132	2	25	
124-48-1	Dibromochloromethane	216	225	227	**104**	**105**	69-137	1	25	

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

Client: **Tetra Tech**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P2204136
Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412** ALS Sample ID: P220926-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/m³	Result LCS µg/m³	Result DLCS µg/m³	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
106-93-4	1,2-Dibromoethane	208	213	215	**102**	**103**	76-128	1	25	
127-18-4	Tetrachloroethene	212	216	218	**102**	**103**	63-130	1	25	
108-90-7	Chlorobenzene	212	210	211	**99**	**100**	70-118	1	25	
100-41-4	Ethylbenzene	210	214	215	**102**	**102**	71-123	0	25	
179601-23-1	m,p-Xylenes	420	434	436	**103**	**104**	67-127	1	25	
75-25-2	Bromoform	214	239	239	**112**	**112**	65-149	0	25	
100-42-5	Styrene	212	231	232	**109**	**109**	76-132	0	25	
95-47-6	o-Xylene	212	215	217	**101**	**102**	69-124	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	212	218	221	**103**	**104**	69-128	1	25	
98-82-8	Cumene	212	214	216	**101**	**102**	69-125	1	25	
622-96-8	4-Ethyltoluene	216	225	225	**104**	**104**	69-127	0	25	
108-67-8	1,3,5-Trimethylbenzene	210	222	224	**106**	**107**	66-129	0.9	25	
95-63-6	1,2,4-Trimethylbenzene	208	226	227	**109**	**109**	63-142	0	25	
100-44-7	Benzyl Chloride	420	613	618	**146**	**147**	73-145	0.7	25	**L**
541-73-1	1,3-Dichlorobenzene	210	233	234	**111**	**111**	67-136	0	25	
106-46-7	1,4-Dichlorobenzene	212	232	234	**109**	**110**	63-134	0.9	25	
95-50-1	1,2-Dichlorobenzene	212	226	227	**107**	**107**	64-139	0	25	
120-82-1	1,2,4-Trichlorobenzene	412	554	555	**134**	**135**	62-154	0.7	25	
91-20-3	Naphthalene	216	316	318	**146**	**147**	62-156	0.7	25	
87-68-3	Hexachlorobutadiene	210	227	226	**108**	**108**	55-142	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.
L = Laboratory control sample recovery outside the specified limits, results may be biased high.

Client: **Tetra Tech** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412**

Method Blank Summary

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 09262203.D

Analyst: Wida Ang Date Analyzed: 9/26/22

Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 04:40

Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
Lab Control Sample	P220926-LCS	09262204.D	05:12
Duplicate Lab Control Sample	P220926-DLCS	09262205.D	05:44
PC-SG-02 (Dilution)	P2204136-003	09262211.D	09:45
PC-SG-01	P2204136-001	09262213.D	10:49
PC-AMB-01	P2204136-002	09262215.D	11:53
PC-SG-03	P2204136-004	09262217.D	12:57
PC-SG-03-DUP	P2204136-005	09262218.D	13:29
PC-IA-01	P2204136-006	09262219.D	14:01
PC-IA-02	P2204136-007	09262221.D	15:05
PC-SG-02	P2204136-003	09262222.D	15:37
PC-IA-02-DUP	P2204136-008	09262223.D	17:07
PC-IA-03	P2204136-009	09262224.D	17:39

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Tetra Tech** ALS Project ID: P2204136

Client Project ID: **Petroleum County Courthouse / 103X903520F0082220412**

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Lab File ID: 09262201.D
Analyst: Wida Ang Date Analyzed: 9/26/22
Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 03:35
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	163662	7.24	701856	9.29	140104	14.82
	Upper Limit	229127	7.57	982598	9.62	196146	15.15
	Lower Limit	98197	6.91	421114	8.96	84062	14.49
	Client Sample ID						
01	Method Blank	151971	7.19	648627	9.26	128635	14.81
02	Lab Control Sample	158442	7.24	674708	9.29	135033	14.82
03	Duplicate Lab Control Sample	159409	7.24	682552	9.29	135588	14.82
04	PC-SG-02 (Dilution)	145052	7.21	625861	9.28	119989	14.81
05	PC-SG-01	144897	7.20	625719	9.26	120052	14.81
06	PC-AMB-01	144016	7.23	621005	9.29	120348	14.81
07	PC-SG-03	148436	7.21	631316	9.27	125248	14.81
08	PC-SG-03-DUP	150744	7.23	651989	9.28	125727	14.81
09	PC-IA-01	152516	7.20	657720	9.27	125357	14.81
10	PC-IA-02	149974	7.20	641419	9.27	122933	14.81
11	PC-SG-02	147456	7.25	640484	9.30	125513	14.82
12	PC-IA-02-DUP	160928	7.20	693102	9.26	131649	14.81
13	PC-IA-03	149770	7.20	644929	9.26	122914	14.81
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
AREA LOWER LIMIT = 60% of internal standard area
RT UPPER LIMIT = 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an I.
I = Internal standard not within the specified limits.

TETRA TECH

November 1, 2022

Mr. Greg Davis
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 8
Superfund and Emergency Management Division
1595 Wynkoop Street
Denver, CO 80202

Subject: **Data Validation Report**
Petroleum County Courthouse
EPA Contract No.: 68HE0820D0001
Task Order/Technical Direction No.: 68HE0820F0082 / 2082-2209-10
Document Tracking No. 0807b

Dear Mr. Davis:

Tetra Tech, Inc. (Tetra Tech) is submitting these data validation reports for nine air samples (including two field duplicates and one ambient air) and 184 bulk building material samples, collected at the Petroleum County Courthouse site. The air samples were collected on September 13, 2022 and were analyzed for volatile organic compounds by ALS Environmental, Simi Valley, CA. The bulk building material samples were submitted on August 31, 2022 and were analyzed for asbestos by Eurofins EMLab P&K, Tustin, CA. The air final laboratory data package was received on October 5, 2022. The asbestos final laboratory data packages were received on October 16 and 22, 2022.

Analytical data were evaluated in general accordance with the Tetra Tech Pr*ogrammatic Quality Assurance Project Plan for EPA Region 8 START V Brownfields Task Order, Superfund Technical Assessment and Response Team (START V), EPA Region 8, Revision 4* (April 2022), and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort.

If you have any questions regarding this data validation report, please call me at (312) 201-7452.

Sincerely,

Carlos Menor Salazar
Environmental Scientist

Tetra Tech, Inc.
1560 Broadway, Suite 1400, Denver, CO 80202
Tel 303.312.8800
www.tetratech.com

Enclosure
cc: Didi Fung, Tetra Tech Program Manager
Amanda Dones, Tetra Tech Project Manager
Clayton Longest, Tetra Tech Project Document Control Coordinator
TO/TD File

ATTACHMENT 1

DATA VALIDATION REPORT
ALS ENVIRONMENTAL REPORT NO. P2204136

DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 8 START CONTRACT

Site Name	Petroleum County Courthouse	**TO/TD No.**	68HE0820F0082 / 2082-2209-10
Document Tracking No.	0807b		
Data Reviewer (signature and date)	October 19, 2022	**Technical Reviewer (signature and date)**	October 31, 2022
Laboratory Report No.	P2204136	**Laboratory**	ALS Environmental, Simi Valley, CA
Analyses	Volatile organic compounds by EPA Method TO-15		
Samples and Matrix	Nine air samples, including two field duplicates and one ambient air sample		
Collection Date(s)	September 13, 2022		
Field Duplicate Pairs	PC-SG-03 / PC-SG-03-DUP and PC-IA-02 / PC-IA-02-DUP		
Field QC Blanks	None		

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Programmatic Quality Assurance Project Plan (QAPP) for EPA Region 8 START V Brownfields Task Order, Superfund Technical Assessment and Response Team (START V), EPA Region 8, Revision 4* (April 2022), and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of results was required for this data set. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
N	The laboratory case narrative states that vinyl acetate could not be reported for the dataset due to a vendor anomaly found in the new standard being used. The LCS recovery for vinyl acetate was above acceptance criteria. No qualifications were necessary as vinyl acetate is not included in the list of analytes reported for the project samples.

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	The chain-of-custody (COC) form specifies the analysis method as TO-15 via selected ion monitoring (SIM); however, the laboratory analyzed the samples with TO-15 in scan mode. Per consultation with the project manager, TO-15 was confirmed to be in the scope of work for this project. No qualifications were applied. The COC form states that the canister starting pressure for sample "PC-SG-01" was -3 inches of mercury, which is lower than the recommended starting pressure of -30 to -25 inches of mercury. The canister end pressure was 0 inches of mercury. Per consultation with the field team, the canister had a leak and arrived depressurized before sampling. While no qualifications were applied for this circumstance, the data user should use the results for this sample with caution because this could indicate that the leak allowed air to enter the canister before sampling commenced, possibly contaminating or diluting the sample.

Method blanks:

Within Criteria	Exceedance/Notes
N	The analyte 2-Butanone (MEK) was detected in method blank P220926-MB at a concentration at the method detection limit (MDL). However, 2-butanone (MEK) detections in the associated field samples exceed 10 times the method blank concentration; therefore, no qualifications were applied.

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
Y	

MS/MSDs:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
N	The field duplicate pair PC-IA-02/ PC-IA-02-DUP relative percent differences (RPDs) or absolute differences are outside QAPP acceptance criteria for 2-butanone (MEK), acetone, ethyl acetate, hexane, m,p-xylenes, n-heptane, o-xylene, and toluene. Therefore, the field duplicate pair results for these analytes were qualified as estimated (flagged J) unless overridden by more specific qualifiers. The field duplicate pair PC-SG-03 / PC-SG-03-DUP RPDs or absolute differences are outside QAPP acceptance criteria for acetone, ethyl acetate, and toluene. Therefore, the field duplicate pair results for these analytes were qualified as estimated (flagged J) unless overridden by more specific qualifiers.

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
N	The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) percent recoveries (%Rs) are above QAPP acceptance criteria for 1,2,4-trichlorobenzene, benzyl chloride, and naphthalene. Therefore, the naphthalene results for samples PC-IA-01, PC-IA-02, PC-IA-02-DUP, PC-IA-03, PC-SG-02, PC-SG-03, and PC-SG-03-DUP were qualified as estimated, possibly biased high (flagged J+). The remaining associated sample results are nondetect; therefore, no qualifications were applied. The LCS and LCSD %Rs were below the QAPP acceptance criteria for ethyl acetate. Therefore, the ethyl acetate results were qualified as estimated, possibly biased low (flagged J-/UJ).

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	The canister dilution factors ranged between 1.28 to 1.62. The toluene result for sample PC-SG-02 was reported with an analysis volume of 0.1 liter, with an effective 10-fold dilution. The rest of VOCs in this sample were reported and analyzed at 1.0 liter.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Non-detect results are reported at the reporting limit (RL) (identified as "MRL" in the laboratory report) and flagged U by the laboratory in the report and EDD. MDLs and RLs are provided in the attached qualified data table. The laboratory report presents the field sample results in units of both micrograms per cubic meter (µg/m^3) and parts per billion by volume; however, the EDD and hence the qualified data table only present the sample results in units of µg/m^3.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [CCV]:

Within Criteria	Exceedance/Notes
N	The laboratory case narrative states that continuing calibration verification (CCV) result for benzyl chloride exceeds acceptance criteria. However, benzyl chloride was not detected in the project samples; therefore, no qualifications were applied.

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-AMB-01	TO-15	71-55-6	1,1,1-Trichloroethane	0.8	U	0.1	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	79-00-5	1,1,2-Trichloroethane	0.8	U	0.083	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	J	0.12	0.83	UG/M3	0.50	J
PC-AMB-01	TO-15	75-34-3	1,1-Dichloroethane	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-AMB-01	TO-15	75-35-4	1,1-Dichloroethene	0.83	U	0.11	0.83	UG/M3	0.83	U
PC-AMB-01	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.2	1.7	UG/M3	1.7	U
PC-AMB-01	TO-15	95-63-6	1,2,4-Trimethylbenzene	0.47	J	0.11	0.8	UG/M3	0.47	J
PC-AMB-01	TO-15	106-93-4	1,2-Dibromoethane	0.8	U	0.095	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.83	U	0.13	0.83	UG/M3	0.83	U
PC-AMB-01	TO-15	95-50-1	1,2-Dichlorobenzene	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-AMB-01	TO-15	107-06-2	1,2-Dichloroethane	0.099	J	0.09	0.81	UG/M3	0.099	J
PC-AMB-01	TO-15	78-87-5	1,2-Dichloropropane	0.17	J	0.1	0.77	UG/M3	0.17	J
PC-AMB-01	TO-15	108-67-8	1,3,5-Trimethylbenzene	0.12	J	0.12	0.8	UG/M3	0.12	J
PC-AMB-01	TO-15	106-99-0	1,3-Butadiene	0.8	U	0.13	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	541-73-1	1,3-Dichlorobenzene	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	106-46-7	1,4-Dichlorobenzene	0.8	U	0.13	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	123-91-1	1,4-Dioxane	0.8	U	0.096	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	78-93-3	2-Butanone (MEK)	5.7	B	0.17	1.5	UG/M3	5.7	
PC-AMB-01	TO-15	591-78-6	2-Hexanone	0.31	J	0.1	1.7	UG/M3	0.31	J
PC-AMB-01	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	11		0.34	1.5	UG/M3	11	
PC-AMB-01	TO-15	622-96-8	4-Ethyltoluene	0.14	J	0.13	0.81	UG/M3	0.14	J
PC-AMB-01	TO-15	108-10-1	4-Methyl-2-pentanone	0.92	J	0.11	1.7	UG/M3	0.92	J
PC-AMB-01	TO-15	67-64-1	Acetone	130		1.8	8	UG/M3	130	
PC-AMB-01	TO-15	71-43-2	Benzene	0.5	J	0.12	0.77	UG/M3	0.50	J
PC-AMB-01	TO-15	100-44-7	Benzyl Chloride	1.7	U	0.18	1.7	UG/M3	1.7	U
PC-AMB-01	TO-15	75-27-4	Bromodichloromethane	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-AMB-01	TO-15	75-25-2	Bromoform	0.8	U	0.17	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	74-83-9	Bromomethane	0.78	U	0.11	0.78	UG/M3	0.78	U
PC-AMB-01	TO-15	75-15-0	Carbon Disulfide	0.35	J	0.24	1.7	UG/M3	0.35	J
PC-AMB-01	TO-15	56-23-5	Carbon Tetrachloride	0.42	J	0.11	0.77	UG/M3	0.42	J
PC-AMB-01	TO-15	108-90-7	Chlorobenzene	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	75-00-3	Chloroethane	0.78	U	0.1	0.78	UG/M3	0.78	U
PC-AMB-01	TO-15	67-66-3	Chloroform	0.83	U	0.11	0.83	UG/M3	0.83	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-AMB-01	TO-15	74-87-3	Chloromethane	0.44	J	0.13	0.78	UG/M3	0.44	J
PC-AMB-01	TO-15	156-59-2	cis-1,2-Dichloroethene	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.77	U	0.13	0.77	UG/M3	0.77	U
PC-AMB-01	TO-15	98-82-8	Cumene	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	110-82-7	Cyclohexane	2.3		0.23	1.7	UG/M3	2.3	
PC-AMB-01	TO-15	124-48-1	Dibromochloromethane	0.81	U	0.11	0.81	UG/M3	0.81	U
PC-AMB-01	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	2.3		0.13	0.81	UG/M3	2.3	
PC-AMB-01	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	0.79	J	0.23	0.8	UG/M3	0.79	J
PC-AMB-01	TO-15	141-78-6	Ethyl Acetate	170		0.43	3.2	UG/M3	170	J-
PC-AMB-01	TO-15	100-41-4	Ethylbenzene	1.4		0.11	0.8	UG/M3	1.4	
PC-AMB-01	TO-15	87-68-3	Hexachlorobutadiene	0.8	U	0.17	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	110-54-3	Hexane	0.64	J	0.17	0.81	UG/M3	0.64	J
PC-AMB-01	TO-15	179601-23-1	m,p-Xylenes	4.5		0.21	1.7	UG/M3	4.5	
PC-AMB-01	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.81	U	0.096	0.81	UG/M3	0.81	U
PC-AMB-01	TO-15	91-20-3	Naphthalene	0.8	U	0.2	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	142-82-5	n-Heptane	0.4	J	0.13	0.81	UG/M3	0.40	J
PC-AMB-01	TO-15	95-47-6	o-Xylene	2.2		0.12	0.8	UG/M3	2.2	
PC-AMB-01	TO-15	115-07-1	Propene	4.6		0.2	0.8	UG/M3	4.6	
PC-AMB-01	TO-15	100-42-5	Styrene	0.78		0.13	0.77	UG/M3	0.78	
PC-AMB-01	TO-15	127-18-4	Tetrachloroethene	0.16	J	0.11	0.8	UG/M3	0.16	J
PC-AMB-01	TO-15	109-99-9	Tetrahydrofuran (THF)	0.46	J	0.1	1.5	UG/M3	0.46	J
PC-AMB-01	TO-15	108-88-3	Toluene	55		0.099	0.8	UG/M3	55	
PC-AMB-01	TO-15	156-60-5	trans-1,2-Dichloroethene	0.21	J	0.11	0.81	UG/M3	0.21	J
PC-AMB-01	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.78	U	0.17	0.78	UG/M3	0.78	U
PC-AMB-01	TO-15	79-01-6	Trichloroethene	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-AMB-01	TO-15	75-69-4	Trichlorofluoromethane	1.1		0.12	0.8	UG/M3	1.1	
PC-AMB-01	TO-15	75-01-4	Vinyl Chloride	0.8	U	0.087	0.8	UG/M3	0.80	U
PC-IA-01	TO-15	71-55-6	1,1,1-Trichloroethane	0.79	U	0.1	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	79-00-5	1,1,2-Trichloroethane	0.79	U	0.082	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.46	J	0.11	0.82	UG/M3	0.46	J
PC-IA-01	TO-15	75-34-3	1,1-Dichloroethane	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-IA-01	TO-15	75-35-4	1,1-Dichloroethene	0.82	U	0.11	0.82	UG/M3	0.82	U
PC-IA-01	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.2	1.7	UG/M3	1.7	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-IA-01	TO-15	95-63-6	1,2,4-Trimethylbenzene	0.23	J	0.11	0.79	UG/M3	0.23	J
PC-IA-01	TO-15	106-93-4	1,2-Dibromoethane	0.79	U	0.094	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.82	U	0.13	0.82	UG/M3	0.82	U
PC-IA-01	TO-15	95-50-1	1,2-Dichlorobenzene	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-IA-01	TO-15	107-06-2	1,2-Dichloroethane	0.11	J	0.089	0.8	UG/M3	0.11	J
PC-IA-01	TO-15	78-87-5	1,2-Dichloropropane	0.76	U	0.1	0.76	UG/M3	0.76	U
PC-IA-01	TO-15	108-67-8	1,3,5-Trimethylbenzene	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	106-99-0	1,3-Butadiene	0.79	U	0.13	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	541-73-1	1,3-Dichlorobenzene	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	106-46-7	1,4-Dichlorobenzene	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	123-91-1	1,4-Dioxane	0.79	U	0.095	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	78-93-3	2-Butanone (MEK)	1.4	J, B	0.17	1.5	UG/M3	1.4	J
PC-IA-01	TO-15	591-78-6	2-Hexanone	0.14	J	0.1	1.7	UG/M3	0.14	J
PC-IA-01	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	180		0.33	1.5	UG/M3	180	
PC-IA-01	TO-15	622-96-8	4-Ethyltoluene	0.8	U	0.13	0.8	UG/M3	0.80	U
PC-IA-01	TO-15	108-10-1	4-Methyl-2-pentanone	1.7	U	0.11	1.7	UG/M3	1.7	U
PC-IA-01	TO-15	67-64-1	Acetone	19		1.8	7.9	UG/M3	19	
PC-IA-01	TO-15	71-43-2	Benzene	0.44	J	0.12	0.76	UG/M3	0.44	J
PC-IA-01	TO-15	100-44-7	Benzyl Chloride	1.7	U	0.18	1.7	UG/M3	1.7	U
PC-IA-01	TO-15	75-27-4	Bromodichloromethane	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-IA-01	TO-15	75-25-2	Bromoform	0.79	U	0.17	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	74-83-9	Bromomethane	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-01	TO-15	75-15-0	Carbon Disulfide	1.7	U	0.24	1.7	UG/M3	1.7	U
PC-IA-01	TO-15	56-23-5	Carbon Tetrachloride	0.43	J	0.11	0.76	UG/M3	0.43	J
PC-IA-01	TO-15	108-90-7	Chlorobenzene	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	75-00-3	Chloroethane	0.77	U	0.1	0.77	UG/M3	0.77	U
PC-IA-01	TO-15	67-66-3	Chloroform	0.82	U	0.11	0.82	UG/M3	0.82	U
PC-IA-01	TO-15	74-87-3	Chloromethane	0.43	J	0.13	0.77	UG/M3	0.43	J
PC-IA-01	TO-15	156-59-2	cis-1,2-Dichloroethene	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.76	U	0.13	0.76	UG/M3	0.76	U
PC-IA-01	TO-15	98-82-8	Cumene	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	110-82-7	Cyclohexane	1.7	U	0.23	1.7	UG/M3	1.7	U
PC-IA-01	TO-15	124-48-1	Dibromochloromethane	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-IA-01	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	2.2		0.13	0.8	UG/M3	2.2	

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-IA-01	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	0.34	J	0.23	0.79	UG/M3	0.34	J
PC-IA-01	TO-15	141-78-6	Ethyl Acetate	3.2	U	0.42	3.2	UG/M3	3.2	UJ
PC-IA-01	TO-15	100-41-4	Ethylbenzene	0.18	J	0.11	0.79	UG/M3	0.18	J
PC-IA-01	TO-15	87-68-3	Hexachlorobutadiene	0.79	U	0.17	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	110-54-3	Hexane	0.39	J	0.17	0.8	UG/M3	0.39	J
PC-IA-01	TO-15	179601-23-1	m,p-Xylenes	0.54	J	0.21	1.7	UG/M3	0.54	J
PC-IA-01	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.8	U	0.095	0.8	UG/M3	0.80	U
PC-IA-01	TO-15	91-20-3	Naphthalene	1.1		0.2	0.79	UG/M3	1.1	J+
PC-IA-01	TO-15	142-82-5	n-Heptane	0.19	J	0.13	0.8	UG/M3	0.19	J
PC-IA-01	TO-15	95-47-6	o-Xylene	0.23	J	0.12	0.79	UG/M3	0.23	J
PC-IA-01	TO-15	115-07-1	Propene	40		0.2	0.79	UG/M3	40	
PC-IA-01	TO-15	100-42-5	Styrene	0.21	J	0.13	0.76	UG/M3	0.21	J
PC-IA-01	TO-15	127-18-4	Tetrachloroethene	0.79	U	0.1	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	109-99-9	Tetrahydrofuran (THF)	1.5	U	0.1	1.5	UG/M3	1.5	U
PC-IA-01	TO-15	108-88-3	Toluene	1.2		0.098	0.79	UG/M3	1.2	
PC-IA-01	TO-15	156-60-5	trans-1,2-Dichloroethene	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-IA-01	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.77	U	0.17	0.77	UG/M3	0.77	U
PC-IA-01	TO-15	79-01-6	Trichloroethene	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-IA-01	TO-15	75-69-4	Trichlorofluoromethane	1.2		0.12	0.79	UG/M3	1.2	
PC-IA-01	TO-15	75-01-4	Vinyl Chloride	0.79	U	0.086	0.79	UG/M3	0.79	U
PC-IA-02	TO-15	71-55-6	1,1,1-Trichloroethane	0.8	U	0.1	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	79-00-5	1,1,2-Trichloroethane	0.8	U	0.083	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.51	J	0.12	0.83	UG/M3	0.51	J
PC-IA-02	TO-15	75-34-3	1,1-Dichloroethane	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-IA-02	TO-15	75-35-4	1,1-Dichloroethene	0.83	U	0.11	0.83	UG/M3	0.83	U
PC-IA-02	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.2	1.7	UG/M3	1.7	U
PC-IA-02	TO-15	95-63-6	1,2,4-Trimethylbenzene	0.4	J	0.11	0.8	UG/M3	0.40	J
PC-IA-02	TO-15	106-93-4	1,2-Dibromoethane	0.8	U	0.095	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.83	U	0.13	0.83	UG/M3	0.83	U
PC-IA-02	TO-15	95-50-1	1,2-Dichlorobenzene	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-IA-02	TO-15	107-06-2	1,2-Dichloroethane	0.81	U	0.09	0.81	UG/M3	0.81	U
PC-IA-02	TO-15	78-87-5	1,2-Dichloropropane	0.15	J	0.1	0.77	UG/M3	0.15	J
PC-IA-02	TO-15	108-67-8	1,3,5-Trimethylbenzene	0.8	U	0.12	0.8	UG/M3	0.80	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-IA-02	TO-15	106-99-0	1,3-Butadiene	0.8	U	0.13	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	541-73-1	1,3-Dichlorobenzene	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	106-46-7	1,4-Dichlorobenzene	0.8	U	0.13	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	123-91-1	1,4-Dioxane	0.8	U	0.096	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	78-93-3	2-Butanone (MEK)	6	B	0.17	1.5	UG/M3	6.0	J
PC-IA-02	TO-15	591-78-6	2-Hexanone	0.29	J	0.1	1.7	UG/M3	0.29	J
PC-IA-02	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	74		0.34	1.5	UG/M3	74	
PC-IA-02	TO-15	622-96-8	4-Ethyltoluene	0.81	U	0.13	0.81	UG/M3	0.81	U
PC-IA-02	TO-15	108-10-1	4-Methyl-2-pentanone	0.85	J	0.11	1.7	UG/M3	0.85	J
PC-IA-02	TO-15	67-64-1	Acetone	29		1.8	8	UG/M3	29	J
PC-IA-02	TO-15	71-43-2	Benzene	0.46	J	0.12	0.77	UG/M3	0.46	J
PC-IA-02	TO-15	100-44-7	Benzyl Chloride	1.7	U	0.18	1.7	UG/M3	1.7	U
PC-IA-02	TO-15	75-27-4	Bromodichloromethane	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-IA-02	TO-15	75-25-2	Bromoform	0.8	U	0.17	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	74-83-9	Bromomethane	0.78	U	0.11	0.78	UG/M3	0.78	U
PC-IA-02	TO-15	75-15-0	Carbon Disulfide	0.42	J	0.24	1.7	UG/M3	0.42	J
PC-IA-02	TO-15	56-23-5	Carbon Tetrachloride	0.41	J	0.11	0.77	UG/M3	0.41	J
PC-IA-02	TO-15	108-90-7	Chlorobenzene	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	75-00-3	Chloroethane	0.78	U	0.1	0.78	UG/M3	0.78	U
PC-IA-02	TO-15	67-66-3	Chloroform	0.83	U	0.11	0.83	UG/M3	0.83	U
PC-IA-02	TO-15	74-87-3	Chloromethane	0.47	J	0.13	0.78	UG/M3	0.47	J
PC-IA-02	TO-15	156-59-2	cis-1,2-Dichloroethene	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.77	U	0.13	0.77	UG/M3	0.77	U
PC-IA-02	TO-15	98-82-8	Cumene	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	110-82-7	Cyclohexane	1.2	J	0.23	1.7	UG/M3	1.2	J
PC-IA-02	TO-15	124-48-1	Dibromochloromethane	0.81	U	0.11	0.81	UG/M3	0.81	U
PC-IA-02	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	2.3		0.13	0.81	UG/M3	2.3	
PC-IA-02	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	0.45	J	0.23	0.8	UG/M3	0.45	J
PC-IA-02	TO-15	141-78-6	Ethyl Acetate	3.8		0.43	3.2	UG/M3	3.8	J-
PC-IA-02	TO-15	100-41-4	Ethylbenzene	0.94		0.11	0.8	UG/M3	0.94	
PC-IA-02	TO-15	87-68-3	Hexachlorobutadiene	0.8	U	0.17	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	110-54-3	Hexane	2.4		0.17	0.81	UG/M3	2.4	J
PC-IA-02	TO-15	179601-23-1	m,p-Xylenes	2.7		0.21	1.7	UG/M3	2.7	J
PC-IA-02	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.81	U	0.096	0.81	UG/M3	0.81	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-IA-02	TO-15	91-20-3	Naphthalene	0.27	J	0.2	0.8	UG/M3	0.27	J+
PC-IA-02	TO-15	142-82-5	n-Heptane	1.2		0.13	0.81	UG/M3	1.2	J
PC-IA-02	TO-15	95-47-6	o-Xylene	1.5		0.12	0.8	UG/M3	1.5	J
PC-IA-02	TO-15	115-07-1	Propene	23		0.2	0.8	UG/M3	23	
PC-IA-02	TO-15	100-42-5	Styrene	0.5	J	0.13	0.77	UG/M3	0.50	J
PC-IA-02	TO-15	127-18-4	Tetrachloroethene	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-IA-02	TO-15	109-99-9	Tetrahydrofuran (THF)	1	J	0.1	1.5	UG/M3	1.0	J
PC-IA-02	TO-15	108-88-3	Toluene	14		0.099	0.8	UG/M3	14	J
PC-IA-02	TO-15	156-60-5	trans-1,2-Dichloroethene	0.14	J	0.11	0.81	UG/M3	0.14	J
PC-IA-02	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.78	U	0.17	0.78	UG/M3	0.78	U
PC-IA-02	TO-15	79-01-6	Trichloroethene	0.2	J	0.11	0.8	UG/M3	0.20	J
PC-IA-02	TO-15	75-69-4	Trichlorofluoromethane	1.1		0.12	0.8	UG/M3	1.1	
PC-IA-02	TO-15	75-01-4	Vinyl Chloride	0.8	U	0.087	0.8	UG/M3	0.80	U
PC-IA-02-DUP	TO-15	71-55-6	1,1,1-Trichloroethane	0.76	U	0.096	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.76	U	0.11	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	79-00-5	1,1,2-Trichloroethane	0.76	U	0.079	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.49	J	0.11	0.79	UG/M3	0.49	J
PC-IA-02-DUP	TO-15	75-34-3	1,1-Dichloroethane	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-02-DUP	TO-15	75-35-4	1,1-Dichloroethene	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-IA-02-DUP	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.6	U	0.19	1.6	UG/M3	1.6	U
PC-IA-02-DUP	TO-15	95-63-6	1,2,4-Trimethylbenzene	0.32	J	0.11	0.76	UG/M3	0.32	J
PC-IA-02-DUP	TO-15	106-93-4	1,2-Dibromoethane	0.76	U	0.091	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-IA-02-DUP	TO-15	95-50-1	1,2-Dichlorobenzene	0.77	U	0.12	0.77	UG/M3	0.77	U
PC-IA-02-DUP	TO-15	107-06-2	1,2-Dichloroethane	0.77	U	0.086	0.77	UG/M3	0.77	U
PC-IA-02-DUP	TO-15	78-87-5	1,2-Dichloropropane	0.73	U	0.096	0.73	UG/M3	0.73	U
PC-IA-02-DUP	TO-15	108-67-8	1,3,5-Trimethylbenzene	0.76	U	0.11	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	106-99-0	1,3-Butadiene	0.76	U	0.13	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	541-73-1	1,3-Dichlorobenzene	0.76	U	0.12	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	106-46-7	1,4-Dichlorobenzene	0.76	U	0.12	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	123-91-1	1,4-Dioxane	0.76	U	0.092	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	78-93-3	2-Butanone (MEK)	1.3	J, B	0.16	1.5	UG/M3	1.3	J
PC-IA-02-DUP	TO-15	591-78-6	2-Hexanone	0.18	J	0.096	1.6	UG/M3	0.18	J
PC-IA-02-DUP	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	69		0.32	1.5	UG/M3	69	

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-IA-02-DUP	TO-15	622-96-8	4-Ethyltoluene	0.77	U	0.12	0.77	UG/M3	0.77	U
PC-IA-02-DUP	TO-15	108-10-1	4-Methyl-2-pentanone	0.35	J	0.11	1.6	UG/M3	0.35	J
PC-IA-02-DUP	TO-15	67-64-1	Acetone	15		1.8	7.6	UG/M3	15	J
PC-IA-02-DUP	TO-15	71-43-2	Benzene	0.54	J	0.11	0.73	UG/M3	0.54	J
PC-IA-02-DUP	TO-15	100-44-7	Benzyl Chloride	1.6	U	0.18	1.6	UG/M3	1.6	U
PC-IA-02-DUP	TO-15	75-27-4	Bromodichloromethane	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-02-DUP	TO-15	75-25-2	Bromoform	0.76	U	0.16	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	74-83-9	Bromomethane	0.74	U	0.11	0.74	UG/M3	0.74	U
PC-IA-02-DUP	TO-15	75-15-0	Carbon Disulfide	1.6	U	0.23	1.6	UG/M3	1.6	U
PC-IA-02-DUP	TO-15	56-23-5	Carbon Tetrachloride	0.41	J	0.11	0.73	UG/M3	0.41	J
PC-IA-02-DUP	TO-15	108-90-7	Chlorobenzene	0.76	U	0.1	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	75-00-3	Chloroethane	0.74	U	0.096	0.74	UG/M3	0.74	U
PC-IA-02-DUP	TO-15	67-66-3	Chloroform	0.79	U	0.1	0.79	UG/M3	0.79	U
PC-IA-02-DUP	TO-15	74-87-3	Chloromethane	0.45	J	0.13	0.74	UG/M3	0.45	J
PC-IA-02-DUP	TO-15	156-59-2	cis-1,2-Dichloroethene	0.76	U	0.11	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.73	U	0.12	0.73	UG/M3	0.73	U
PC-IA-02-DUP	TO-15	98-82-8	Cumene	0.76	U	0.11	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	110-82-7	Cyclohexane	0.29	J	0.22	1.6	UG/M3	0.29	J
PC-IA-02-DUP	TO-15	124-48-1	Dibromochloromethane	0.77	U	0.1	0.77	UG/M3	0.77	U
PC-IA-02-DUP	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	2.1		0.13	0.77	UG/M3	2.1	
PC-IA-02-DUP	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	0.29	J	0.22	0.76	UG/M3	0.29	J
PC-IA-02-DUP	TO-15	141-78-6	Ethyl Acetate	0.54	J	0.41	3.1	UG/M3	0.54	J-
PC-IA-02-DUP	TO-15	100-41-4	Ethylbenzene	0.33	J	0.11	0.76	UG/M3	0.33	J
PC-IA-02-DUP	TO-15	87-68-3	Hexachlorobutadiene	0.76	U	0.16	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	110-54-3	Hexane	0.96		0.16	0.77	UG/M3	0.96	J
PC-IA-02-DUP	TO-15	179601-23-1	m,p-Xylenes	0.93	J	0.2	1.6	UG/M3	0.93	J
PC-IA-02-DUP	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.092	0.77	UG/M3	0.77	U
PC-IA-02-DUP	TO-15	91-20-3	Naphthalene	0.43	J	0.19	0.76	UG/M3	0.43	J+
PC-IA-02-DUP	TO-15	142-82-5	n-Heptane	0.36	J	0.12	0.77	UG/M3	0.36	J
PC-IA-02-DUP	TO-15	95-47-6	o-Xylene	0.35	J	0.11	0.76	UG/M3	0.35	J
PC-IA-02-DUP	TO-15	115-07-1	Propene	19		0.19	0.76	UG/M3	19	
PC-IA-02-DUP	TO-15	100-42-5	Styrene	0.21	J	0.13	0.73	UG/M3	0.21	J
PC-IA-02-DUP	TO-15	127-18-4	Tetrachloroethene	0.76	U	0.1	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	109-99-9	Tetrahydrofuran (THF)	1.5	U	0.098	1.5	UG/M3	1.5	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-IA-02-DUP	TO-15	108-88-3	Toluene	2		0.095	0.76	UG/M3	2.0	J
PC-IA-02-DUP	TO-15	156-60-5	trans-1,2-Dichloroethene	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-02-DUP	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.74	U	0.16	0.74	UG/M3	0.74	U
PC-IA-02-DUP	TO-15	79-01-6	Trichloroethene	0.76	U	0.11	0.76	UG/M3	0.76	U
PC-IA-02-DUP	TO-15	75-69-4	Trichlorofluoromethane	1.1		0.12	0.76	UG/M3	1.1	
PC-IA-02-DUP	TO-15	75-01-4	Vinyl Chloride	0.76	U	0.083	0.76	UG/M3	0.76	U
PC-IA-03	TO-15	71-55-6	1,1,1-Trichloroethane	0.77	U	0.098	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	79-00-5	1,1,2-Trichloroethane	0.77	U	0.08	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.48	J	0.11	0.8	UG/M3	0.48	J
PC-IA-03	TO-15	75-34-3	1,1-Dichloroethane	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-IA-03	TO-15	75-35-4	1,1-Dichloroethene	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-IA-03	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.6	U	0.19	1.6	UG/M3	1.6	U
PC-IA-03	TO-15	95-63-6	1,2,4-Trimethylbenzene	0.26	J	0.11	0.77	UG/M3	0.26	J
PC-IA-03	TO-15	106-93-4	1,2-Dibromoethane	0.77	U	0.092	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.8	U	0.13	0.8	UG/M3	0.80	U
PC-IA-03	TO-15	95-50-1	1,2-Dichlorobenzene	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-IA-03	TO-15	107-06-2	1,2-Dichloroethane	0.79	U	0.088	0.79	UG/M3	0.79	U
PC-IA-03	TO-15	78-87-5	1,2-Dichloropropane	0.75	U	0.098	0.75	UG/M3	0.75	U
PC-IA-03	TO-15	108-67-8	1,3,5-Trimethylbenzene	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	106-99-0	1,3-Butadiene	0.77	U	0.13	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	541-73-1	1,3-Dichlorobenzene	0.77	U	0.12	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	106-46-7	1,4-Dichlorobenzene	0.77	U	0.12	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	123-91-1	1,4-Dioxane	0.77	U	0.094	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	78-93-3	2-Butanone (MEK)	1.2	J, B	0.16	1.5	UG/M3	1.2	J
PC-IA-03	TO-15	591-78-6	2-Hexanone	0.15	J	0.098	1.6	UG/M3	0.15	J
PC-IA-03	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	13		0.33	1.5	UG/M3	13	
PC-IA-03	TO-15	622-96-8	4-Ethyltoluene	0.79	U	0.13	0.79	UG/M3	0.79	U
PC-IA-03	TO-15	108-10-1	4-Methyl-2-pentanone	0.12	J	0.11	1.6	UG/M3	0.12	J
PC-IA-03	TO-15	67-64-1	Acetone	13		1.8	7.7	UG/M3	13	
PC-IA-03	TO-15	71-43-2	Benzene	0.45	J	0.11	0.75	UG/M3	0.45	J
PC-IA-03	TO-15	100-44-7	Benzyl Chloride	1.6	U	0.18	1.6	UG/M3	1.6	U
PC-IA-03	TO-15	75-27-4	Bromodichloromethane	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-IA-03	TO-15	75-25-2	Bromoform	0.77	U	0.16	0.77	UG/M3	0.77	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-IA-03	TO-15	74-83-9	Bromomethane	0.76	U	0.11	0.76	UG/M3	0.76	U
PC-IA-03	TO-15	75-15-0	Carbon Disulfide	1.6	U	0.24	1.6	UG/M3	1.6	U
PC-IA-03	TO-15	56-23-5	Carbon Tetrachloride	0.43	J	0.11	0.75	UG/M3	0.43	J
PC-IA-03	TO-15	108-90-7	Chlorobenzene	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	75-00-3	Chloroethane	0.76	U	0.098	0.76	UG/M3	0.76	U
PC-IA-03	TO-15	67-66-3	Chloroform	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-IA-03	TO-15	74-87-3	Chloromethane	0.46	J	0.13	0.76	UG/M3	0.46	J
PC-IA-03	TO-15	156-59-2	cis-1,2-Dichloroethene	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.75	U	0.12	0.75	UG/M3	0.75	U
PC-IA-03	TO-15	98-82-8	Cumene	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	110-82-7	Cyclohexane	1.6	U	0.22	1.6	UG/M3	1.6	U
PC-IA-03	TO-15	124-48-1	Dibromochloromethane	0.79	U	0.1	0.79	UG/M3	0.79	U
PC-IA-03	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	2.3		0.13	0.79	UG/M3	2.3	
PC-IA-03	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	0.25	J	0.22	0.77	UG/M3	0.25	J
PC-IA-03	TO-15	141-78-6	Ethyl Acetate	3.1	U	0.42	3.1	UG/M3	3.1	UJ
PC-IA-03	TO-15	100-41-4	Ethylbenzene	0.14	J	0.11	0.77	UG/M3	0.14	J
PC-IA-03	TO-15	87-68-3	Hexachlorobutadiene	0.77	U	0.16	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	110-54-3	Hexane	0.41	J	0.16	0.79	UG/M3	0.41	J
PC-IA-03	TO-15	179601-23-1	m,p-Xylenes	0.45	J	0.21	1.6	UG/M3	0.45	J
PC-IA-03	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.79	U	0.094	0.79	UG/M3	0.79	U
PC-IA-03	TO-15	91-20-3	Naphthalene	0.32	J	0.19	0.77	UG/M3	0.32	J+
PC-IA-03	TO-15	142-82-5	n-Heptane	0.13	J	0.13	0.79	UG/M3	0.13	J
PC-IA-03	TO-15	95-47-6	o-Xylene	0.19	J	0.11	0.77	UG/M3	0.19	J
PC-IA-03	TO-15	115-07-1	Propene	5.2		0.19	0.77	UG/M3	5.2	
PC-IA-03	TO-15	100-42-5	Styrene	0.19	J	0.13	0.75	UG/M3	0.19	J
PC-IA-03	TO-15	127-18-4	Tetrachloroethene	0.77	U	0.1	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	109-99-9	Tetrahydrofuran (THF)	1.5	U	0.1	1.5	UG/M3	1.5	U
PC-IA-03	TO-15	108-88-3	Toluene	1.1		0.097	0.77	UG/M3	1.1	
PC-IA-03	TO-15	156-60-5	trans-1,2-Dichloroethene	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-IA-03	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.76	U	0.16	0.76	UG/M3	0.76	U
PC-IA-03	TO-15	79-01-6	Trichloroethene	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-IA-03	TO-15	75-69-4	Trichlorofluoromethane	1.1		0.12	0.77	UG/M3	1.1	
PC-IA-03	TO-15	75-01-4	Vinyl Chloride	0.77	U	0.085	0.77	UG/M3	0.77	U
PC-SG-01	TO-15	71-55-6	1,1,1-Trichloroethane	0.67	U	0.084	0.67	UG/M3	0.67	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-SG-01	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.67	U	0.095	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	79-00-5	1,1,2-Trichloroethane	0.67	U	0.069	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.69	U	0.097	0.69	UG/M3	0.69	U
PC-SG-01	TO-15	75-34-3	1,1-Dichloroethane	0.68	U	0.1	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	75-35-4	1,1-Dichloroethene	0.69	U	0.095	0.69	UG/M3	0.69	U
PC-SG-01	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.4	U	0.17	1.4	UG/M3	1.4	U
PC-SG-01	TO-15	95-63-6	1,2,4-Trimethylbenzene	0.67	U	0.095	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	106-93-4	1,2-Dibromoethane	0.67	U	0.079	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.69	U	0.11	0.69	UG/M3	0.69	U
PC-SG-01	TO-15	95-50-1	1,2-Dichlorobenzene	0.68	U	0.1	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	107-06-2	1,2-Dichloroethane	0.68	U	0.076	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	78-87-5	1,2-Dichloropropane	0.64	U	0.084	0.64	UG/M3	0.64	U
PC-SG-01	TO-15	108-67-8	1,3,5-Trimethylbenzene	0.67	U	0.099	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	106-99-0	1,3-Butadiene	0.67	U	0.11	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	541-73-1	1,3-Dichlorobenzene	0.67	U	0.1	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	106-46-7	1,4-Dichlorobenzene	0.67	U	0.1	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	123-91-1	1,4-Dioxane	0.67	U	0.081	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	78-93-3	2-Butanone (MEK)	1.3	U	0.14	1.3	UG/M3	1.3	U
PC-SG-01	TO-15	591-78-6	2-Hexanone	1.4	U	0.084	1.4	UG/M3	1.4	U
PC-SG-01	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	1.3	U	0.28	1.3	UG/M3	1.3	U
PC-SG-01	TO-15	622-96-8	4-Ethyltoluene	0.68	U	0.11	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	108-10-1	4-Methyl-2-pentanone	1.4	U	0.093	1.4	UG/M3	1.4	U
PC-SG-01	TO-15	67-64-1	Acetone	6.7	U	1.5	6.7	UG/M3	6.7	U
PC-SG-01	TO-15	71-43-2	Benzene	0.64	U	0.099	0.64	UG/M3	0.64	U
PC-SG-01	TO-15	100-44-7	Benzyl Chloride	1.4	U	0.15	1.4	UG/M3	1.4	U
PC-SG-01	TO-15	75-27-4	Bromodichloromethane	0.68	U	0.099	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	75-25-2	Bromoform	0.67	U	0.14	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	74-83-9	Bromomethane	0.65	U	0.095	0.65	UG/M3	0.65	U
PC-SG-01	TO-15	75-15-0	Carbon Disulfide	1.4	U	0.2	1.4	UG/M3	1.4	U
PC-SG-01	TO-15	56-23-5	Carbon Tetrachloride	0.64	U	0.095	0.64	UG/M3	0.64	U
PC-SG-01	TO-15	108-90-7	Chlorobenzene	0.67	U	0.091	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	75-00-3	Chloroethane	0.65	U	0.084	0.65	UG/M3	0.65	U
PC-SG-01	TO-15	67-66-3	Chloroform	0.69	U	0.091	0.69	UG/M3	0.69	U
PC-SG-01	TO-15	74-87-3	Chloromethane	0.65	U	0.11	0.65	UG/M3	0.65	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-SG-01	TO-15	156-59-2	cis-1,2-Dichloroethene	0.67	U	0.096	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.64	U	0.11	0.64	UG/M3	0.64	U
PC-SG-01	TO-15	98-82-8	Cumene	0.67	U	0.099	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	110-82-7	Cyclohexane	1.4	U	0.19	1.4	UG/M3	1.4	U
PC-SG-01	TO-15	124-48-1	Dibromochloromethane	0.68	U	0.09	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	0.68	U	0.11	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	0.67	U	0.19	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	141-78-6	Ethyl Acetate	0.53	J	0.36	2.7	UG/M3	0.53	J-
PC-SG-01	TO-15	100-41-4	Ethylbenzene	0.67	U	0.096	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	87-68-3	Hexachlorobutadiene	0.67	U	0.14	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	110-54-3	Hexane	0.68	U	0.14	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	179601-23-1	m,p-Xylenes	1.4	U	0.18	1.4	UG/M3	1.4	U
PC-SG-01	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.68	U	0.081	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	91-20-3	Naphthalene	0.67	U	0.17	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	142-82-5	n-Heptane	0.68	U	0.11	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	95-47-6	o-Xylene	0.67	U	0.099	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	115-07-1	Propene	0.67	U	0.17	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	100-42-5	Styrene	0.64	U	0.11	0.64	UG/M3	0.64	U
PC-SG-01	TO-15	127-18-4	Tetrachloroethene	0.67	U	0.088	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	109-99-9	Tetrahydrofuran (THF)	1.3	U	0.086	1.3	UG/M3	1.3	U
PC-SG-01	TO-15	108-88-3	Toluene	0.22	J	0.083	0.67	UG/M3	0.22	J
PC-SG-01	TO-15	156-60-5	trans-1,2-Dichloroethene	0.68	U	0.095	0.68	UG/M3	0.68	U
PC-SG-01	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.65	U	0.14	0.65	UG/M3	0.65	U
PC-SG-01	TO-15	79-01-6	Trichloroethene	0.67	U	0.092	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	75-69-4	Trichlorofluoromethane	0.67	U	0.1	0.67	UG/M3	0.67	U
PC-SG-01	TO-15	75-01-4	Vinyl Chloride	0.67	U	0.073	0.67	UG/M3	0.67	U
PC-SG-02	TO-15	71-55-6	1,1,1-Trichloroethane	0.78	U	0.099	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.78	U	0.11	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	79-00-5	1,1,2-Trichloroethane	0.78	U	0.081	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.47	J	0.11	0.81	UG/M3	0.47	J
PC-SG-02	TO-15	75-34-3	1,1-Dichloroethane	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-SG-02	TO-15	75-35-4	1,1-Dichloroethene	0.81	U	0.11	0.81	UG/M3	0.81	U
PC-SG-02	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.2	1.7	UG/M3	1.7	U
PC-SG-02	TO-15	95-63-6	1,2,4-Trimethylbenzene	14		0.11	0.78	UG/M3	14	

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-SG-02	TO-15	106-93-4	1,2-Dibromoethane	0.78	U	0.093	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.81	U	0.13	0.81	UG/M3	0.81	U
PC-SG-02	TO-15	95-50-1	1,2-Dichlorobenzene	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-SG-02	TO-15	107-06-2	1,2-Dichloroethane	0.8	U	0.089	0.8	UG/M3	0.80	U
PC-SG-02	TO-15	78-87-5	1,2-Dichloropropane	0.71	J	0.099	0.75	UG/M3	0.71	J
PC-SG-02	TO-15	108-67-8	1,3,5-Trimethylbenzene	7		0.12	0.78	UG/M3	7.0	
PC-SG-02	TO-15	106-99-0	1,3-Butadiene	0.78	U	0.13	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	541-73-1	1,3-Dichlorobenzene	0.78	U	0.12	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	106-46-7	1,4-Dichlorobenzene	0.78	U	0.12	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	123-91-1	1,4-Dioxane	0.26	J	0.095	0.78	UG/M3	0.26	J
PC-SG-02	TO-15	78-93-3	2-Butanone (MEK)	20	B	0.17	1.5	UG/M3	20	
PC-SG-02	TO-15	591-78-6	2-Hexanone	1.7	U	0.099	1.7	UG/M3	1.7	U
PC-SG-02	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	110		0.33	1.5	UG/M3	110	
PC-SG-02	TO-15	622-96-8	4-Ethyltoluene	2		0.13	0.8	UG/M3	2.0	
PC-SG-02	TO-15	108-10-1	4-Methyl-2-pentanone	5.6		0.11	1.7	UG/M3	5.6	
PC-SG-02	TO-15	67-64-1	Acetone	500		1.8	7.8	UG/M3	500	
PC-SG-02	TO-15	71-43-2	Benzene	7.8		0.12	0.75	UG/M3	7.8	
PC-SG-02	TO-15	100-44-7	Benzyl Chloride	1.7	U	0.18	1.7	UG/M3	1.7	U
PC-SG-02	TO-15	75-27-4	Bromodichloromethane	0.8	U	0.12	0.8	UG/M3	0.80	U
PC-SG-02	TO-15	75-25-2	Bromoform	0.78	U	0.17	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	74-83-9	Bromomethane	0.77	U	0.11	0.77	UG/M3	0.77	U
PC-SG-02	TO-15	75-15-0	Carbon Disulfide	3.1		0.24	1.7	UG/M3	3.1	
PC-SG-02	TO-15	56-23-5	Carbon Tetrachloride	0.33	J	0.11	0.75	UG/M3	0.33	J
PC-SG-02	TO-15	108-90-7	Chlorobenzene	0.23	J	0.11	0.78	UG/M3	0.23	J
PC-SG-02	TO-15	75-00-3	Chloroethane	0.77	U	0.099	0.77	UG/M3	0.77	U
PC-SG-02	TO-15	67-66-3	Chloroform	0.3	J	0.11	0.81	UG/M3	0.30	J
PC-SG-02	TO-15	74-87-3	Chloromethane	0.77	U	0.13	0.77	UG/M3	0.77	U
PC-SG-02	TO-15	156-59-2	cis-1,2-Dichloroethene	0.78	U	0.11	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.75	U	0.12	0.75	UG/M3	0.75	U
PC-SG-02	TO-15	98-82-8	Cumene	0.56	J	0.12	0.78	UG/M3	0.56	J
PC-SG-02	TO-15	110-82-7	Cyclohexane	11		0.23	1.7	UG/M3	11	
PC-SG-02	TO-15	124-48-1	Dibromochloromethane	0.8	U	0.11	0.8	UG/M3	0.80	U
PC-SG-02	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	2.2		0.13	0.8	UG/M3	2.2	
PC-SG-02	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	2.2		0.23	0.78	UG/M3	2.2	

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-SG-02	TO-15	141-78-6	Ethyl Acetate	600		0.42	3.2	UG/M3	600	J-
PC-SG-02	TO-15	100-41-4	Ethylbenzene	7.6		0.11	0.78	UG/M3	7.6	
PC-SG-02	TO-15	87-68-3	Hexachlorobutadiene	0.78	U	0.17	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	110-54-3	Hexane	14		0.17	0.8	UG/M3	14	
PC-SG-02	TO-15	179601-23-1	m,p-Xylenes	42		0.21	1.7	UG/M3	42	
PC-SG-02	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.8	U	0.095	0.8	UG/M3	0.80	U
PC-SG-02	TO-15	91-20-3	Naphthalene	1.2		0.2	0.78	UG/M3	1.2	J+
PC-SG-02	TO-15	142-82-5	n-Heptane	12		0.13	0.8	UG/M3	12	
PC-SG-02	TO-15	95-47-6	o-Xylene	16		0.12	0.78	UG/M3	16	
PC-SG-02	TO-15	115-07-1	Propene	25		0.2	0.78	UG/M3	25	
PC-SG-02	TO-15	100-42-5	Styrene	2.8		0.13	0.75	UG/M3	2.8	
PC-SG-02	TO-15	127-18-4	Tetrachloroethene	0.66	J	0.1	0.78	UG/M3	0.66	J
PC-SG-02	TO-15	109-99-9	Tetrahydrofuran (THF)	3.7		0.1	1.5	UG/M3	3.7	
PC-SG-02	TO-15	108-88-3	Toluene	230	D	0.98	7.8	UG/M3	230	
PC-SG-02	TO-15	156-60-5	trans-1,2-Dichloroethene	0.76	J	0.11	0.8	UG/M3	0.76	J
PC-SG-02	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.77	U	0.17	0.77	UG/M3	0.77	U
PC-SG-02	TO-15	79-01-6	Trichloroethene	0.78	U	0.11	0.78	UG/M3	0.78	U
PC-SG-02	TO-15	75-69-4	Trichlorofluoromethane	1.1		0.12	0.78	UG/M3	1.1	
PC-SG-02	TO-15	75-01-4	Vinyl Chloride	0.78	U	0.086	0.78	UG/M3	0.78	U
PC-SG-03	TO-15	71-55-6	1,1,1-Trichloroethane	0.84	U	0.11	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.84	U	0.12	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	79-00-5	1,1,2-Trichloroethane	0.84	U	0.087	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	J	0.12	0.87	UG/M3	0.45	J
PC-SG-03	TO-15	75-34-3	1,1-Dichloroethane	0.86	U	0.13	0.86	UG/M3	0.86	U
PC-SG-03	TO-15	75-35-4	1,1-Dichloroethene	0.87	U	0.12	0.87	UG/M3	0.87	U
PC-SG-03	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.21	1.8	UG/M3	1.8	U
PC-SG-03	TO-15	95-63-6	1,2,4-Trimethylbenzene	4.8		0.12	0.84	UG/M3	4.8	
PC-SG-03	TO-15	106-93-4	1,2-Dibromoethane	0.84	U	0.1	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.87	U	0.14	0.87	UG/M3	0.87	U
PC-SG-03	TO-15	95-50-1	1,2-Dichlorobenzene	0.86	U	0.13	0.86	UG/M3	0.86	U
PC-SG-03	TO-15	107-06-2	1,2-Dichloroethane	0.86	U	0.096	0.86	UG/M3	0.86	U
PC-SG-03	TO-15	78-87-5	1,2-Dichloropropane	0.81	U	0.11	0.81	UG/M3	0.81	U
PC-SG-03	TO-15	108-67-8	1,3,5-Trimethylbenzene	2.1		0.12	0.84	UG/M3	2.1	
PC-SG-03	TO-15	106-99-0	1,3-Butadiene	0.84	U	0.14	0.84	UG/M3	0.84	U

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-SG-03	TO-15	541-73-1	1,3-Dichlorobenzene	0.84	U	0.13	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	106-46-7	1,4-Dichlorobenzene	0.84	U	0.13	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	123-91-1	1,4-Dioxane	0.23	J	0.1	0.84	UG/M3	0.23	J
PC-SG-03	TO-15	78-93-3	2-Butanone (MEK)	5.2	B	0.18	1.6	UG/M3	5.2	
PC-SG-03	TO-15	591-78-6	2-Hexanone	1.8	U	0.11	1.8	UG/M3	1.8	U
PC-SG-03	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	48		0.36	1.6	UG/M3	48	
PC-SG-03	TO-15	622-96-8	4-Ethyltoluene	0.85	J	0.14	0.86	UG/M3	0.85	J
PC-SG-03	TO-15	108-10-1	4-Methyl-2-pentanone	2.5		0.12	1.8	UG/M3	2.5	
PC-SG-03	TO-15	67-64-1	Acetone	57		1.9	8.4	UG/M3	57	J
PC-SG-03	TO-15	71-43-2	Benzene	4.4		0.12	0.81	UG/M3	4.4	
PC-SG-03	TO-15	100-44-7	Benzyl Chloride	1.8	U	0.19	1.8	UG/M3	1.8	U
PC-SG-03	TO-15	75-27-4	Bromodichloromethane	0.86	U	0.12	0.86	UG/M3	0.86	U
PC-SG-03	TO-15	75-25-2	Bromoform	0.84	U	0.18	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	74-83-9	Bromomethane	0.83	U	0.12	0.83	UG/M3	0.83	U
PC-SG-03	TO-15	75-15-0	Carbon Disulfide	3.2		0.26	1.8	UG/M3	3.2	
PC-SG-03	TO-15	56-23-5	Carbon Tetrachloride	0.3	J	0.12	0.81	UG/M3	0.30	J
PC-SG-03	TO-15	108-90-7	Chlorobenzene	0.57	J	0.12	0.84	UG/M3	0.57	J
PC-SG-03	TO-15	75-00-3	Chloroethane	0.83	U	0.11	0.83	UG/M3	0.83	U
PC-SG-03	TO-15	67-66-3	Chloroform	0.87	U	0.12	0.87	UG/M3	0.87	U
PC-SG-03	TO-15	74-87-3	Chloromethane	0.83	U	0.14	0.83	UG/M3	0.83	U
PC-SG-03	TO-15	156-59-2	cis-1,2-Dichloroethene	0.84	U	0.12	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.81	U	0.13	0.81	UG/M3	0.81	U
PC-SG-03	TO-15	98-82-8	Cumene	0.24	J	0.12	0.84	UG/M3	0.24	J
PC-SG-03	TO-15	110-82-7	Cyclohexane	7.3		0.24	1.8	UG/M3	7.3	
PC-SG-03	TO-15	124-48-1	Dibromochloromethane	0.86	U	0.11	0.86	UG/M3	0.86	U
PC-SG-03	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	2.2		0.14	0.86	UG/M3	2.2	
PC-SG-03	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	0.84	U	0.24	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	141-78-6	Ethyl Acetate	0.87	J	0.45	3.4	UG/M3	0.87	J-
PC-SG-03	TO-15	100-41-4	Ethylbenzene	2.2		0.12	0.84	UG/M3	2.2	
PC-SG-03	TO-15	87-68-3	Hexachlorobutadiene	0.84	U	0.18	0.84	UG/M3	0.84	U
PC-SG-03	TO-15	110-54-3	Hexane	5.9		0.18	0.86	UG/M3	5.9	
PC-SG-03	TO-15	179601-23-1	m,p-Xylenes	8.9		0.23	1.8	UG/M3	8.9	
PC-SG-03	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.86	U	0.1	0.86	UG/M3	0.86	U
PC-SG-03	TO-15	91-20-3	Naphthalene	0.7	J	0.21	0.84	UG/M3	0.70	J+

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-SG-03	TO-15	142-82-5	n-Heptane	3.9		0.14	0.86	UG/M3	3.9	
PC-SG-03	TO-15	95-47-6	o-Xylene	3		0.12	0.84	UG/M3	3.0	
PC-SG-03	TO-15	115-07-1	Propene	15		0.21	0.84	UG/M3	15	
PC-SG-03	TO-15	100-42-5	Styrene	0.22	J	0.14	0.81	UG/M3	0.22	J
PC-SG-03	TO-15	127-18-4	Tetrachloroethene	0.29	J	0.11	0.84	UG/M3	0.29	J
PC-SG-03	TO-15	109-99-9	Tetrahydrofuran (THF)	0.65	J	0.11	1.6	UG/M3	0.65	J
PC-SG-03	TO-15	108-88-3	Toluene	11		0.11	0.84	UG/M3	11	J
PC-SG-03	TO-15	156-60-5	trans-1,2-Dichloroethene	0.86	U	0.12	0.86	UG/M3	0.86	U
PC-SG-03	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.83	U	0.18	0.83	UG/M3	0.83	U
PC-SG-03	TO-15	79-01-6	Trichloroethene	0.13	J	0.12	0.84	UG/M3	0.13	J
PC-SG-03	TO-15	75-69-4	Trichlorofluoromethane	1.2		0.13	0.84	UG/M3	1.2	
PC-SG-03	TO-15	75-01-4	Vinyl Chloride	0.84	U	0.092	0.84	UG/M3	0.84	U
PC-SG-03-DUP	TO-15	71-55-6	1,1,1-Trichloroethane	0.79	U	0.1	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	79-34-5	1,1,2,2-Tetrachloroethane	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	79-00-5	1,1,2-Trichloroethane	0.79	U	0.082	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	76-13-1	1,1,2-Trichlorotrifluoroethane	0.48	J	0.12	0.82	UG/M3	0.48	J
PC-SG-03-DUP	TO-15	75-34-3	1,1-Dichloroethane	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-SG-03-DUP	TO-15	75-35-4	1,1-Dichloroethene	0.82	U	0.11	0.82	UG/M3	0.82	U
PC-SG-03-DUP	TO-15	120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.2	1.7	UG/M3	1.7	U
PC-SG-03-DUP	TO-15	95-63-6	1,2,4-Trimethylbenzene	5.1		0.11	0.79	UG/M3	5.1	
PC-SG-03-DUP	TO-15	106-93-4	1,2-Dibromoethane	0.79	U	0.094	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.82	U	0.13	0.82	UG/M3	0.82	U
PC-SG-03-DUP	TO-15	95-50-1	1,2-Dichlorobenzene	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-SG-03-DUP	TO-15	107-06-2	1,2-Dichloroethane	0.81	U	0.09	0.81	UG/M3	0.81	U
PC-SG-03-DUP	TO-15	78-87-5	1,2-Dichloropropane	0.76	U	0.1	0.76	UG/M3	0.76	U
PC-SG-03-DUP	TO-15	108-67-8	1,3,5-Trimethylbenzene	2.2		0.12	0.79	UG/M3	2.2	
PC-SG-03-DUP	TO-15	106-99-0	1,3-Butadiene	0.79	U	0.13	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	541-73-1	1,3-Dichlorobenzene	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	106-46-7	1,4-Dichlorobenzene	0.79	U	0.12	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	123-91-1	1,4-Dioxane	0.28	J	0.096	0.79	UG/M3	0.28	J
PC-SG-03-DUP	TO-15	78-93-3	2-Butanone (MEK)	7.4	B	0.17	1.5	UG/M3	7.4	
PC-SG-03-DUP	TO-15	591-78-6	2-Hexanone	1.7	U	0.1	1.7	UG/M3	1.7	U
PC-SG-03-DUP	TO-15	67-63-0	2-Propanol (Isopropyl Alcohol)	58		0.33	1.5	UG/M3	58	
PC-SG-03-DUP	TO-15	622-96-8	4-Ethyltoluene	0.93		0.13	0.81	UG/M3	0.93	

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-SG-03-DUP	TO-15	108-10-1	4-Methyl-2-pentanone	2.9		0.11	1.7	UG/M3	2.9	
PC-SG-03-DUP	TO-15	67-64-1	Acetone	120		1.8	7.9	UG/M3	120	J
PC-SG-03-DUP	TO-15	71-43-2	Benzene	4.4		0.12	0.76	UG/M3	4.4	
PC-SG-03-DUP	TO-15	100-44-7	Benzyl Chloride	1.7	U	0.18	1.7	UG/M3	1.7	U
PC-SG-03-DUP	TO-15	75-27-4	Bromodichloromethane	0.81	U	0.12	0.81	UG/M3	0.81	U
PC-SG-03-DUP	TO-15	75-25-2	Bromoform	0.79	U	0.17	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	74-83-9	Bromomethane	0.78	U	0.11	0.78	UG/M3	0.78	U
PC-SG-03-DUP	TO-15	75-15-0	Carbon Disulfide	4.2		0.24	1.7	UG/M3	4.2	
PC-SG-03-DUP	TO-15	56-23-5	Carbon Tetrachloride	0.33	J	0.11	0.76	UG/M3	0.33	J
PC-SG-03-DUP	TO-15	108-90-7	Chlorobenzene	0.6	J	0.11	0.79	UG/M3	0.60	J
PC-SG-03-DUP	TO-15	75-00-3	Chloroethane	0.78	U	0.1	0.78	UG/M3	0.78	U
PC-SG-03-DUP	TO-15	67-66-3	Chloroform	0.11	J	0.11	0.82	UG/M3	0.11	J
PC-SG-03-DUP	TO-15	74-87-3	Chloromethane	0.78	U	0.13	0.78	UG/M3	0.78	U
PC-SG-03-DUP	TO-15	156-59-2	cis-1,2-Dichloroethene	0.79	U	0.11	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	10061-01-5	cis-1,3-Dichloropropene	0.76	U	0.13	0.76	UG/M3	0.76	U
PC-SG-03-DUP	TO-15	98-82-8	Cumene	0.27	J	0.12	0.79	UG/M3	0.27	J
PC-SG-03-DUP	TO-15	110-82-7	Cyclohexane	8.1		0.23	1.7	UG/M3	8.1	
PC-SG-03-DUP	TO-15	124-48-1	Dibromochloromethane	0.81	U	0.11	0.81	UG/M3	0.81	U
PC-SG-03-DUP	TO-15	75-71-8	Dichlorodifluoromethane (CFC 12)	2.2		0.13	0.81	UG/M3	2.2	
PC-SG-03-DUP	TO-15	75-09-2	Dichloromethane (Methylene Chloride)	0.4	J	0.23	0.79	UG/M3	0.40	J
PC-SG-03-DUP	TO-15	141-78-6	Ethyl Acetate	94		0.43	3.2	UG/M3	94	J-
PC-SG-03-DUP	TO-15	100-41-4	Ethylbenzene	3		0.11	0.79	UG/M3	3.0	
PC-SG-03-DUP	TO-15	87-68-3	Hexachlorobutadiene	0.79	U	0.17	0.79	UG/M3	0.79	U
PC-SG-03-DUP	TO-15	110-54-3	Hexane	6.1		0.17	0.81	UG/M3	6.1	
PC-SG-03-DUP	TO-15	179601-23-1	m,p-Xylenes	12		0.21	1.7	UG/M3	12	
PC-SG-03-DUP	TO-15	1634-04-4	Methyl tert-Butyl Ether	0.81	U	0.096	0.81	UG/M3	0.81	U
PC-SG-03-DUP	TO-15	91-20-3	Naphthalene	0.79	J	0.2	0.79	UG/M3	0.79	J+
PC-SG-03-DUP	TO-15	142-82-5	n-Heptane	4		0.13	0.81	UG/M3	4.0	
PC-SG-03-DUP	TO-15	95-47-6	o-Xylene	4.2		0.12	0.79	UG/M3	4.2	
PC-SG-03-DUP	TO-15	115-07-1	Propene	15		0.2	0.79	UG/M3	15	
PC-SG-03-DUP	TO-15	100-42-5	Styrene	0.63	J	0.13	0.76	UG/M3	0.63	J
PC-SG-03-DUP	TO-15	127-18-4	Tetrachloroethene	0.27	J	0.1	0.79	UG/M3	0.27	J
PC-SG-03-DUP	TO-15	109-99-9	Tetrahydrofuran (THF)	0.9	J	0.1	1.5	UG/M3	0.90	J
PC-SG-03-DUP	TO-15	108-88-3	Toluene	42		0.099	0.79	UG/M3	42	J

PETROLEUM COUNTY COURTHOUSE AIR ANALYTICAL RESULTS SUMMARY
ALS ENVIRONMENTAL REPORT NO. P2204136

Sample ID	Method	CAS_NO	Analyte	Lab Result	Lab Qual	MDL	RL	Units	Val Result	Val Qual
PC-SG-03-DUP	TO-15	156-60-5	trans-1,2-Dichloroethene	0.12	J	0.11	0.81	UG/M3	0.12	J
PC-SG-03-DUP	TO-15	10061-02-6	trans-1,3-Dichloropropene	0.78	U	0.17	0.78	UG/M3	0.78	U
PC-SG-03-DUP	TO-15	79-01-6	Trichloroethene	0.19	J	0.11	0.79	UG/M3	0.19	J
PC-SG-03-DUP	TO-15	75-69-4	Trichlorofluoromethane	1.2		0.12	0.79	UG/M3	1.2	
PC-SG-03-DUP	TO-15	75-01-4	Vinyl Chloride	0.79	U	0.087	0.79	UG/M3	0.79	U

ATTACHMENT 2

DATA VALIDATION REPORT
EUROFINS EMLAB P&K REPORT NO. 3020045

Stage 1 Verification Checklist

Petroleum County Courthouse - Asbestos Samples

2082-2209-10

Reviewed by:

10/25/2022

Eurofins EMLab P&K, Tustin, CA
Report No. 3020045

Carlos Menor Salazar
Environmental Scientist

√	1.	Chain of custody (CoC) documentation is present. See Notes.
√	2.	Sample receipt condition information is present and acceptable. See Notes.
√	3.	Laboratory conducting the analysis is identified.
√	4.	All samples submitted to the laboratory are accounted for.
√	5.	Requested analytical methods were performed.
√	6.	Analysis dates are provided.
√	7.	Analyte results are provided.
√	8.	Result qualifiers and definitions are provided.
√	9.	Result units are reported.
NA	10.	Requested reporting limits are present. See Notes.
NA	11.	Method detection limits are present. See Notes.
X	12.	Sample collection date and time are present.

Discrepancies:

12. Samples collection date and time are not present in the laboratory data packages nor electronic data deliverables (EDDs) because the field personnel did not include these on the chain of custody (COC) form. The data user should refer to the date of submittal as of August 31, 2022 at 16:00 for all the samples collected.

Notes:

1. The COC form specifies analysis instructions for bulk building material samples via Polarized Light Microscopy (PLM) method EPA 600/R-93/116s. However, based on the results obtained via PLM, the Tetra Tech Project Manager requested via email on September 20, 2022, analysis of the asbestos-containing building material samples via PLM Point Count. The laboratory analyzed and reported these results on September 22, 2022.

2. The laboratory stated that all samples were received in acceptable condition unless otherwise noted. There were no additional details; therefore, it is assumed the samples met method criteria for analysis.

   The laboratory included the following comment on three samples (PCC-DWS-07-A, PCC-DWS-07-B, and PCC-DWS-07-C): "Drywall System not detected". The data user should know that the sample description included on the COC form as "Drywall System" differ from the observation by the laboratory analyst.

10/11. The reporting limits and method detection limits are not applicable for bulk building material samples for asbestos analysis. Instead, per the Tetra Tech P*rogrammatic Quality Assurance Project Plan for EPA Region 8 START V Brownfields Task Order, Superfund Technical Assessment and Response Team (START V), EPA Region 8, Revision 4* (April 2022), the threshold definition of 1% by volume applies.