



# LIMITED ADDITIONAL ENVIRONMENTAL ASSESSMENT REPORT

**Former Victory Building – 555 Main Street – Montevallo, AL**

City of Montevallo  
555 Main Street,  
Montevallo, Alabama 35115

Atlas Project No. Z003001504

**PREPARED FOR:**

Mr. Steve Gilbert  
City Clerk & Treasurer  
**City of Montevallo**  
541 Main Street,  
Montevallo, Alabama 35115

**PREPARED BY:**

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November 28, 2023



## Document Information

Prepared for: City of Montevallo  
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Project Name: Former Victory Building – 555 Main Street – Montevallo, AL  
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## 1.0 SITE INFORMATION

### 1.1 Introduction

Atlas Technical Consultants, LLC (Atlas) has completed this Limited Additional Environmental Assessment for The City of Montevallo in general accordance with Proposal # 003-2023-0160, dated August 29, 2023 and executed on October 26, 2023 and November 9, 2023. This report summarizes the findings of the Limited Additional Environmental Assessment at 555 Main Street, Montevallo, Shelby County, Alabama (herein referred to as “Subject Property”). A Site Location Map is included as **Figure 1**. A Site Vicinity Map is depicted in **Figure 2**. The Site Map with soil and vapor sample locations are included as **Figure 3**. This report summarizes the purpose, methods, findings, and conclusions of this investigation.

### 1.2 Site Description

The Subject Property is located within the municipal boundaries of the City of Montevallo, Shelby County, Alabama in an area characterized predominantly by municipal, residential, and commercial property use. Surface topography across the property and in the surrounding area generally slopes towards the west/southwest; however, in the rear of the former Victory building it slopes towards the northwest.

The Subject Property is comprised of one parcel (27-5-21-3-304-022.000) which encompasses approximately 0.66-acres. The Subject Property is developed with a two-story building constructed in approximately 1918. The building encompasses approximately 18,000 square feet and is currently unoccupied. The property building has concrete paved sidewalks and a garage entrance on the south side and a grass lot at the north end of the building. An asphalt paved drive and ramp which previously provided entry to the rear garage is no longer present on the property.

### 1.3 Site Background

A Phase I Environmental Site Assessment (ESA) was completed by Cardno ATC (Cardno) in March 2014. The *recognized environmental conditions* (RECs) at the Subject Property were identified, as follows:

- Underground storage tanks (USTs) were historically utilized on the Subject Property, listed as Tract 1 in the ATC report. No closure documentation regarding the abandonment/removal of the USTs was provided for review during the Phase I ESA.
- Subsurface hydraulic lifts were observed within the vehicle maintenance area of the building.
- Wastewater historically generated within the building was discharged to floor drains which entered a concrete lined ditch at the rear of the building. The identified wastewater sources represent a REC based on the historical site operations.

Based on the RECs identified during the Phase I, a Limited Phase II Environmental Site Assessment (Limited Phase II) was conducted in February 2019 by ATC Group Services LLC (ATC). The scope of the Limited Phase II consisted of the following activities:

- Ground-Penetrating Radar survey and
- Six (6) soil borings (B-1 through B-6). Three (3) of the borings (B-1 through B-3) were completed outside of the Subject Property boundaries. The three (3) remaining soil borings (B-4 through B-6) were advanced on the Subject Property.

- Soil boring B-4 was advanced on the Subject Property to the northwest of the former Victory building, approximately 60 feet from the area where the former gasoline USTs were reportedly abandoned in place. It should be noted on the Boring location map that the original location of B-4 is light blue in color and is noted as such in the legend of Figure 3.
- Soil boring B-5 was advanced on the Subject Property to the northwest of the former Victory building, approximately 70 feet from the area where the former gasoline USTs were reportedly abandoned in place.
- Soil boring B-6 was advanced on the Subject Property to the north of the former Victory building, approximately 35 feet from the area where the former gasoline USTs were reportedly abandoned in place.

Soil borings B-4 through B-6 were advanced using direct push technology (DPT) to depths of 28 feet below ground surface (ft. bgs), 20 ft. bgs, and 16 ft. bgs, respectively. Boring refusal was encountered in borings B-4 through B-6 at fragmented limestone bedrock. One soil sample was collected from soil borings B-4 through B-6. The soil samples were submitted for laboratory analysis as summarized below:

- B-4 from 24-28 ft. bgs. was analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), Resource Conservation and Recovery Act (RCRA) 8 metals and polychlorinated biphenyls (PCBs).
- B-5 from 16-20 ft. bgs. was analyzed for BTEX and lead.
- B-6 from 12-16 ft. bgs was analyzed for BTEX and lead.

Groundwater was not encountered in the soil borings; therefore, no groundwater samples were collected.

ATC's Limited Phase II activities, findings and conclusions are summarized in the Limited Phase II report, dated February 7, 2019. General conclusions presented by ATC for the identified RECs were as follows:

- Arsenic concentrations from borings B-4 (13.3 milligrams per kilogram - mg/kg) and B-5 (22.9 mg/kg) exceeded the United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) of 3.0 mg/kg for industrial usage and the EPA RSL for residential soil of 0.68 mg/kg.
- Hexavalent chromium concentrations from soil samples B-4 (1.6 mg/kg) and B-5 (0.81 mg/kg) exceeded the EPA RSL of 0.3 mg/kg for residential soil; however, the concentrations were less than the EPA RSL of 6.0 mg/kg for industrial use.

Based on information contained in the assessments completed by ATC (ESA and Phase II), Atlas recommended additional subsurface assessment (vapor) at the location of the former Victory building. Additionally, Atlas recommended collection of off-site background soil samples up-gradient of the former Victory building. Furthermore, Atlas ultimately recommended enrollment of the Site into the Alabama Department of Environmental Management (ADEM) Voluntary Cleanup Program (VCP) with the intention of placing use restrictions on the Subject Property.

## 1.4 Planned Scope of Work

On July 27, 2023 ADEM, Atlas, and The City of Montevallo leadership discussed next steps in regards to the Subject Property on a conference call. The purpose of the call was to discuss the VCP Application. Based on the age of the initial subsurface data for the Subject Property, ADEM requested that Atlas prepare an additional assessment plan to include the collection of soil vapor samples and off-site background soil samples to assess area-wide arsenic concentrations. Atlas provided proposal #003-2023-0160 dated August 29, 2023 to complete an additional environmental assessment in general accordance with discussions between ADEM and the City of Montevallo on July 27, 2023. In summary, the scope of work developed proposed the following assessment tasks:

### Task 1: Background Metal Sampling

Atlas proposed the installation of four (4) soil borings in an area up-gradient and off-site from the Subject Property (**Figure 3**), using hand auger. Atlas collected soil samples from soil borings B-1, B-2, B-3, and B-4 at depths of 6-6.5 ft. bgs, 3-3.5 ft. bgs, 4.5-6 ft. bgs, and 2-2.5 ft. bgs, respectively.

The detected concentrations from the off-site soil samples were compared to the previously collected samples on the Subject Property to establish background concentrations of arsenic in the project area. Atlas submitted soil samples to Sutherland Environmental Company, Inc. (Sutherland) under proper chain-of-custody protocols for analysis of arsenic per EPA Method 6020B.

Hand auger equipment was decontaminated prior to arrival and between soil boring locations by scrubbing with a non-phosphate detergent (i.e., Alconox) and rinsing with fresh water prior to use at each sample location.

### Task 2: Soil Vapor Survey

Atlas completed five (5) soil gas probes directly adjacent to the perimeter of the former Victory building (**Figure 3**). Three (3) of the soil gas probes (SV-1, SV-2, and SV-3) were installed utilizing hand tooling to a depth of approximately 3 ft. bgs and two (2) sub-slab soil vapor points (SV-4 and SV-5) were installed using a hammer drill to 6 inches below the concrete slab. Atlas collected one (1) soil vapor sample from each location after allowing the sample points to equilibrate for 24 hours after installation. Upon completion of sampling, the soil gas probes were removed, and the surface was matched to the existing conditions.

Vapor samples obtained were submitted to H&P Mobile Geochemistry, Inc. (H&P) under proper chain-of-custody protocols for analysis for volatile organic compounds (VOCs) per EPA Method TO-15.

The hand auger equipment and hammer drill bit were thoroughly cleaned using an Alconox® solution and rinsed with deionized water prior to beginning each soil vapor location.

#### 1.4.1 Soil Boring and Sample Collection Plan

TABLE 1 - SOIL BORING & SAMPLE COLLECTION			
BORING ID	NUMBER OF SAMPLES PER SOIL BORING	ANALYTICAL	INTENT
B-1	1	Arsenic	Assess background arsenic concentrations off-site for up-gradient areas
B-2	1	Arsenic	
B-3	1	Arsenic	
B-4	1	Arsenic	

TABLE 1 - SOIL BORING & SAMPLE COLLECTION			
BORING ID	NUMBER OF SAMPLES PER SOIL BORING	ANALYTICAL	INTENT
B-4 (shallow)	1	Arsenic	Assess surficial soils in area of previous Phase II boring locations
B-5 (shallow)	1	Arsenic	

#### 1.4.2 [Scope of Work Variances](#)

Based on the lack of detected arsenic concentrations in off-site soil samples B-1 through B-4, two (2) additional shallow surficial soil borings were collected on the Subject Property. Atlas installed two (2) additional shallow soil borings in the general vicinity of the ATC Limited Phase II borings B-4 and B-5 that were previously installed in January 2019.

## 2.0 FIELD SERVICES

### 2.1 Site-Specific Health and Safety Plan and 811 Utility Location Notification

Prior to the initiation of field activities, Atlas prepared a property-specific health and safety plan (HASP) to minimize the risk of potential exposure to chemical and physical hazards associated with the subsurface investigation. The Alabama 811 utility location was contacted to provide underground utility marking at the property prior to the initiation of field activities.

### 2.2 Field Activities

On October 26, 2023 a total of four (4) soil borings, identified as B-1 through B-4, were advanced up-gradient off-site by Atlas representatives Mr. Zander Cordan and Mr. Laun Pryor to assess background concentrations of arsenic in the nearby areas surrounding the Subject Property. Due to the lack of detected arsenic in soil samples collected from B-1 through B-4, an additional two (2) borings were advanced north of the former Victory building, near the locations of previously completed Limited Phase two borings B-4 and B-5. The six (6) borings were advanced using a stainless-steel hand auger. Soil boring locations are indicated on **Figure 3**. An Atlas field technician observed the advancement of the borings and prepared detailed logs of the subsurface material. Descriptions of the subsurface material in each sample were based upon the Unified Soil Classification System (USCS). Field observations such as odor, staining, and total photo-ionizable vapors were recorded in the boring logs. Sampling tools were decontaminated between all sampling locations and a new pair of disposable nitrile gloves were donned between all sampling intervals in general accordance with industry best practices.

#### 2.2.1 [Soil Boring and Sample Collection](#)

Each soil boring was hand cleared using a stainless-steel hand auger to reach the proposed target depth ranges outlined in Section 1.4. Once the target depth was reached, the soil samples were collected directly from the stainless-steel hand auger and placed into a re-sealable plastic bag.

After the soil was logged on the boring log it was placed into laboratory supplied glass jars with Teflon lined lids. The jarred samples were immediately placed in a cooler with ice for laboratory analysis. To reduce the possibility of cross-contamination, a new pair of disposable nitrile gloves was worn by the field technician for each sample collected. Additionally, Atlas personnel thoroughly cleaned the stainless-steel hand auger using an Alconox® solution and rinsed with deionized water prior to beginning each boring.

The selected samples from each soil boring were placed on ice in a cooler and submitted under chain-of-custody protocol to Sutherland for analysis.

### 2.2.2 Vapor Sampling

Soil gas sampling was conducted to evaluate the risk of vapor intrusion for the Subject Property. On October 26, 2023, Atlas installed three (3), soil vapor points (SV-1, SV-2, and SV-3) along the perimeter of the former Victory Building. The soil gas probes were installed utilizing hand tooling to a depth of approximately 3 feet bgs. Stainless steel probe implants connected to Teflon tubing were placed into the sampling point at 3 feet bgs. Filter sand was placed in the annular space at the sampling depths, then a bentonite/grout mixture was used to seal the annular space between sampling depths and to the ground surface. Atlas additionally, installed two sub slab soil vapor sampling points (SV-4 and SV-5) located south and north of the former Victory building, near the building footprint, within the sidewalk.

Prior to field activities, Atlas contacted Alabama 811 to mark underground utilities for the Subject Property. Atlas used a hammer drill to penetrate the areas within the sidewalk as they were covered by concrete. Upon completion of drilling a soil vapor point was hammered into the boring to allow extraction of soil gas. The locations of the soil gas points are shown on **Figure 3**.

A shut-in test was initially conducted on the sample train to ensure air-tight connections were present by applying vacuum pressure to the lines and observing for vacuum pressure loss. Helium gas was used as a leak check compound during sampling. To perform the leak check sampling, a temporary shroud was placed over the sampling point, then helium gas was injected into the shroud. A field helium meter was used to periodically measure helium concentrations within the shroud. A syringe was used to purge approximately three volumes from the sampling point at a maximum flow rate of 200 milliliters per minute (mL/min). Following purging, Atlas collected a sample in a Tedlar bag and used a field helium meter to measure the concentration of helium gas in the Tedlar bag. Helium monitoring indicated acceptable sample quality.

Upon completion of successful leak testing, samples were collected at each location using batch-certified, stainless steel Summa canisters provided by H&P. Atlas performed sampling of the soil gas points at a canister fill rate of less than 200 milliliters per minute (mL/min), in accordance with EPA standard sampling protocol. Upon completion of sampling, the soil gas probes were removed, and the drilled holes were patched to match existing conditions at each location. The samples were packaged and shipped to H&P for analysis of VOCs per EPA Method TO-15.

## 2.3 Laboratory Analysis Completed

Soil samples were collected, handled, preserved, and transported via Atlas personnel, under chain-of-custody protocol, to Sutherland in Birmingham, Alabama for analysis in general accordance with best industry practices and EPA Method 6020B test method.

Additionally, all vapor samples were collected, handled, preserved and transported via Atlas personnel, under chain-of-custody protocol, to H&P located in Carlsbad, California for analysis in general accordance with best industry practices and EPA Method TO-15.

## 2.4 Waste Disposal

Due to the limited volume of soil cuttings generated from the hand auguring activities, soil excavated was placed back into the holes after sampling was completed.

## 3.0 SITE GEOLOGY

The terminal depths of the borings ranged from 2.25 ft. bgs (B-4) to 6.16 ft. bgs (B-1). The Subject Property geology primarily consisted of organic topsoil followed by red/brown fine to medium grained clay. Chert/quartz fragments were also present in some of the sample intervals. Bedrock was not encountered during the field activities conducted on October 26, 2023, or November 9, 2023. Previous investigations at the Subject Property encountered bedrock, consisting of fractured limestone, at depths of approximately 16-24 ft. bgs. The location of each soil boring is depicted on **Figure 3**.



## 4.0 ASSESSMENT RESULTS & FINDINGS

### 4.1 Constituents of Concern Evaluation Criteria

Soil laboratory analytical results were compared to the EPA RSL values.

Soil vapor data were compared to the EPA Vapor Intrusion Screening Level (VISL) Commercial-Target Sub-Slab and Exterior Soil Gas Concentrations.

### 4.2 Soil Analytical Results

Arsenic concentrations in soils were not detected greater than the laboratory detection limit of 1.0 mg/kg in the four (4) background surficial soil borings (B-1 through B-4) that were collected on October 26, 2023. Subsequent to the non-detect (ND) lab results for the off-site background soil samples, Atlas collected two (2) additional surficial soil samples on November 9, 2023 on the Subject Property, in the approximate location of ATC's 2019 Limited Phase II borings B-4 and B-5, that previously contained arsenic at concentrations greater than both the residential and industrial RSLs. Soil collected from shallow depths at these locations on November 9, 2023 did not detect arsenic greater than the laboratory detection limit of 1.0 mg/kg.

Data previously collected during ATC's Limited Phase II conducted in January 2019, borings B-4 and B-5, located north of the Victory building, were the only two borings located on the Subject Property with arsenic concentrations greater than the EPA residential and industrial RSLs. Limited Phase II soil samples B-4 and B-5 were collected from 24-28 ft. bgs and 16-20 ft. bgs, respectively. Arsenic was not detected greater than the laboratory detection limit in soil samples collected from borings B-4 or B-5 at depths of 2-3 ft. bgs during the November 9, 2023 sampling. Arsenic concentrations greater than the residential and industrial RSLs were encountered only at the boring termination depth ranges from the soil borings collected during ATC's January 2019 Limited Phase II and not in surficial soil samples collected on November 9, 2023.

Thin coal seams and fragments were observed in the borings advanced on the Subject Property on November 9, 2023. According to the United States Geological Survey (USGS) and the (Geological Survey of Alabama, 2006, GSA Special Map Series 220A, scale 1:250,000. Primary reference: Szabo, M.W., Osborne, E.W., Copeland, C.W. Jr., and Neathery, T.L., 1988, Geologic Map of Alabama, Geological Survey of Alabama Special Map 220, scale 1:250,000.) the Subject Property is underlain by the Brierfield Dolomite formation, which is from the Phanerozoic Eon, Palaeozoic Era, from the Cambrian Period. This formation was deposited approximately 538.8-485.4 million years ago and predominantly consists of medium to dark-blueish-gray thick bedded siliceous dolomite characterized by locally abundant chert with irregular cavities. This formation was deposited in an inferred marine environment. Historically, coal was being mined in Shelby County as early as the 1830's and by 1859 the largest mine operation in the state was the Alabama Coal Mining Company (ACMC). ACMC operated several drift mines in the Montevallo area which operated under numerous names and different owners for close to a century when Montevallo Coal Mine Company in Aldrich, which is now part of Montevallo, closed July 5, 1942 according to the Alabama Register of Landmarks and Heritage website.

Ambient background soil concentrations for arsenic in Alabama soils range generally from 3.0 mg/kg to 11.0 mg/kg (Geochemical Landscapes of the Conterminous United States – New Map Presentations for 22 Elements, U.S. Geological Survey Professional Paper 1648, November 2001. Additionally, all coal contains some arsenic. The United States Geological Survey (USGS) maintains extensive database of over 7,000 analyses of U.S. coals. The average arsenic concentration for US coal is approximately 24 mg/kg. However, there is considerable variation by coal basin, ranging from an average low of 1.4 mg/kg in Colorado and New Mexico to a high of 71 mg/kg in southern Alabama and Tennessee (Kolker, A. et al. (2006) Arsenic in coal - USGS publications warehouse, U.S. Geologic Survey Fact sheet 2005-3152.)

Based upon the thin seams and small fragments of black bituminous material that were observed in the borings advanced at the Subject Property during the additional sampling event, it appears that there are deposits of coal that underlay the Subject Property. Historically, the City of Montevallo and the surrounding area have been coal mined since the early 1830's until at least 1942 by numerous mining companies. These companies operated open drift mines in the area encompassing present day Montevallo. During ATCs Limited Phase II investigation completed in January 2019, arsenic concentrations from borings B-4 (13.3 mg/kg) and B-5 (22.9 mg/kg) exceeded the EPA RSL of 3.0 mg/kg for industrial usage and the EPA RSL for residential soil of 0.68 mg/kg. These soils which contained arsenic concentrations that exceeded the EPA RSLs were encountered at boring termination depths ranging from 24-28 ft. bgs and 16-20 ft. bgs, respectively, and were not detected in the shallow surficial soil samples collected in October and November 2023. The data collected from ATC's 2019 Limited Phase II, which indicated elevated arsenic concentrations present in the soils in B-4 and B-5 at the boring termination depths are most likely attributed to naturally occurring levels within the coal seams and bedrock underlying the Subject Property and the City of Montevallo. Typical arsenic concentrations for coal are approximately 24 mg/kg which is greater than both the concentrations observed in the borings B-4 and B-5 collected in 2019 (Kolker, A. et al. 2006).

The Sutherland Laboratory Report is provided in **Appendix A**.

<b>Table 2: SOIL ANALYTICAL RESULTS</b>			
			<b>6020-B Metals</b>
<b>Sample ID</b>	<b>Sample Depth (ft. bgs)</b>	<b>Sample Date</b>	<b>Arsenic (mg/Kg)</b>
B-1 (off-site background sample)	6-6.5	10/26/2023	BDL
B-2 (off-site background sample)	3-3.5	10/26/2023	BDL
B-3 (off-site background sample)	4.5-5	10/26/2023	BDL
B-4 (off-site background sample)	2-2.5	10/26/2023	BDL
B-4 (shallow on-site sample)	2-3	11/9/2023	BDL
B-5 (shallow on-site sample)	2-3	11/9/2023	BDL
<b>EPA Industrial RSL</b>	--	--	<b>3.0</b>
<b>EPA Residential RSL</b>	--	--	<b>1.1</b>

Notes:

BDL= Below the Detection Limit

ft. bgs = feet below ground surface

RSL= Regional Screening Level

mg/kg- milligram per kilogram

### 4.3 Soil Vapor Analytical Results

Soil gas data were evaluated using the EPA VISL calculator. The EPA VISL calculator is updated following every regional screening level update and was last updated in November 2023. Concentrations of soil vapor constituents of concern (COC) were reported less than the Commercial Target Sub-Slab and Near Source Soil Gas Levels

A comparison of the vapor analytical results detected and their respective VISL levels are summarized in **Table 3** below. The soil vapor sample locations are depicted on **Figure 3**, and the H&P Laboratory Report is provided in **Appendix B**.

**TABLE 3: SOIL VAPOR ANALYTICAL RESULTS**

Well Number	Sample Date	Carbon Disulfide (µg/m <sup>3</sup> )	Chloroform (µg/m <sup>3</sup> )	Toluene (µg/m <sup>3</sup> )	Tetrachloroethene (µg/m <sup>3</sup> )	Total Petroleum Hydrocarbons (TPHv) (C5-C12) (µg/m <sup>3</sup> )
SV-1	10/26/2023	11	ND	11	130	510
SV-2	10/26/2023	12	7.9	4.8	ND	440
SV-3	10/26/2023	ND	ND	8.6	ND	230
SV-4	10/26/2023	ND	ND	ND	25	180
SV-5	10/26/2023	ND	ND	7.4	12	350
<b>Commercial Target Sub-Slab and Near-source Soil Gas</b>		<b>10,200</b>	<b>17.8</b>	<b>73,000</b>	<b>584</b>	<b>NE</b>

Notes: Analytical results expressed as micrograms per cubic meter (µg/m<sup>3</sup>)  
Commercial Target sub-slab soil vapor concentrations determined through EPA Vapor Intrusion Screening Level (VISL) calculator, with carcinogenic risk of 1E-6 and Target Hazard Quotient of 0.1.  
Results calculated on November 28, 2023.  
NE = Not Established

## 5.0 CONCLUSIONS

Based on the results presented in this Limited Additional Assessment Report, arsenic is present in soil at the Subject Property. In summary:

- Arsenic is neither present greater than the laboratory background detection limit in off-site adjacent up-gradient soil samples collected on October 26, 2023 nor in the additional two on-site shallow samples collected at the locations of previous borings B-4 and B-5 on November 9, 2023.
- Arsenic detected at the Subject Property is located at depths of approximately 16-20 ft. bgs and 24-28 ft. bgs and was not detected in the surficial soil samples collected on either October 26 or November 9, 2023. Depths at which elevated arsenic concentrations were detected would not be encountered during planned redevelopment activities at the Subject Property. In addition, human dermal contact with soils at the indicated depths is unlikely and the risk associated with the detected arsenic in soil is low.
- Soil vapor concentrations were less than the EPA VISL concentrations, and vapor intrusion does not pose a significant risk to the future occupants of the proposed commercial structure at the Subject Property.

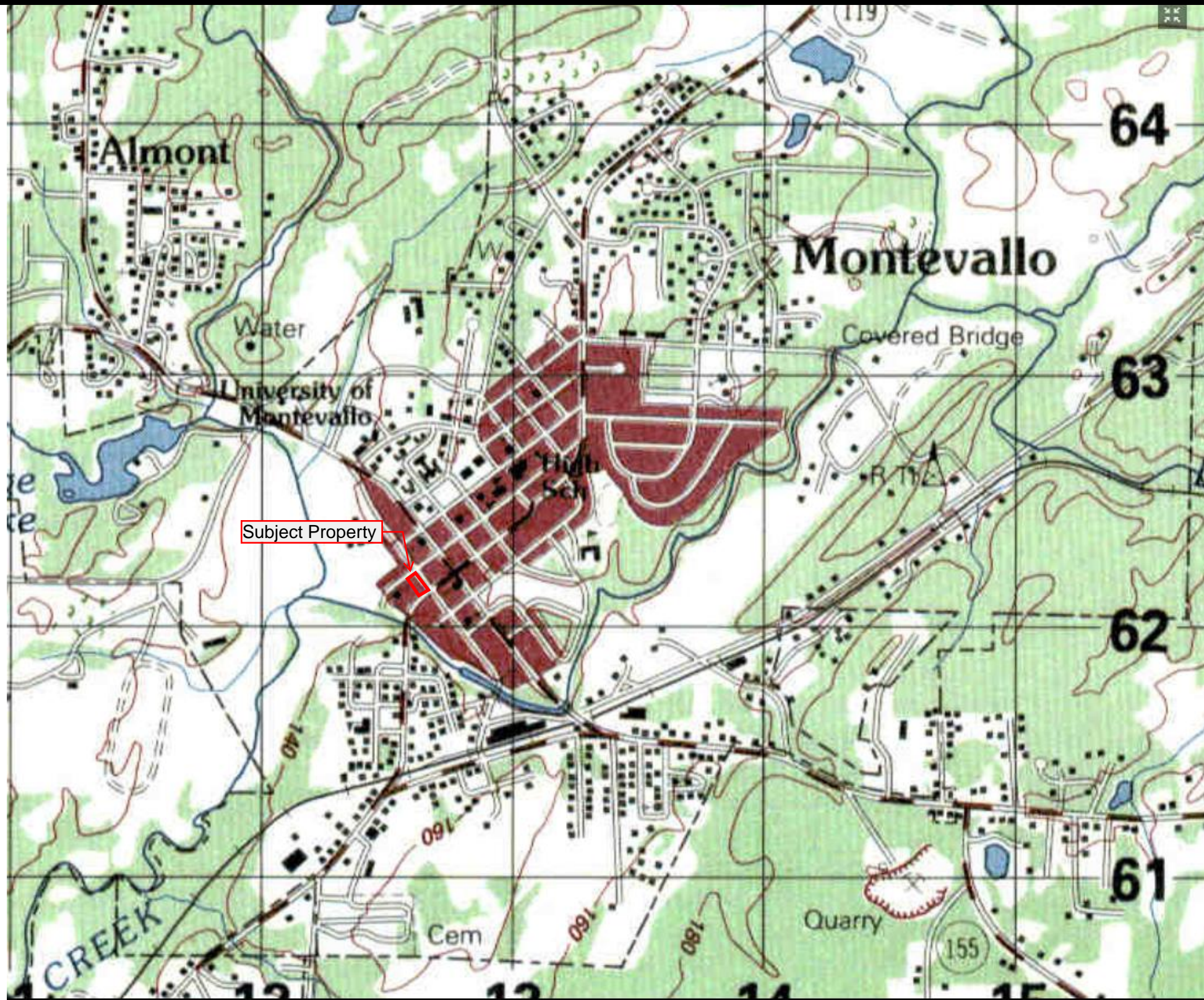
Based on the data collected during this investigation, Atlas does not recommend additional delineation or sampling as part of the VCP process.

## 6.0 REPORT LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions as presented by the data gathered during the investigation described herein. Subsurface investigative and methodologies were performed in general accordance with applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological and environmental consulting practices, and analytical results for environmental samples collected at the time the field investigation was performed. The data presented in this report are believed to represent subsurface conditions at the facility; however, data may not be completely representative of subsurface conditions at every location. Atlas assumes no liability arising from environmental impact to, or from, the site, regardless of the date of impact occurrence or findings.

## FIGURES





PROJECT NO: Z003001504

DRAWN BY: ZC

DATE: November 21, 2023

DESIGNED BY: ATLAS

SAMPLE DATE: October 26, 2023 &  
November 9, 2023



200 WELLINGTON MANOR COURT,  
SUITE 100  
ALABASTER, AL 35007

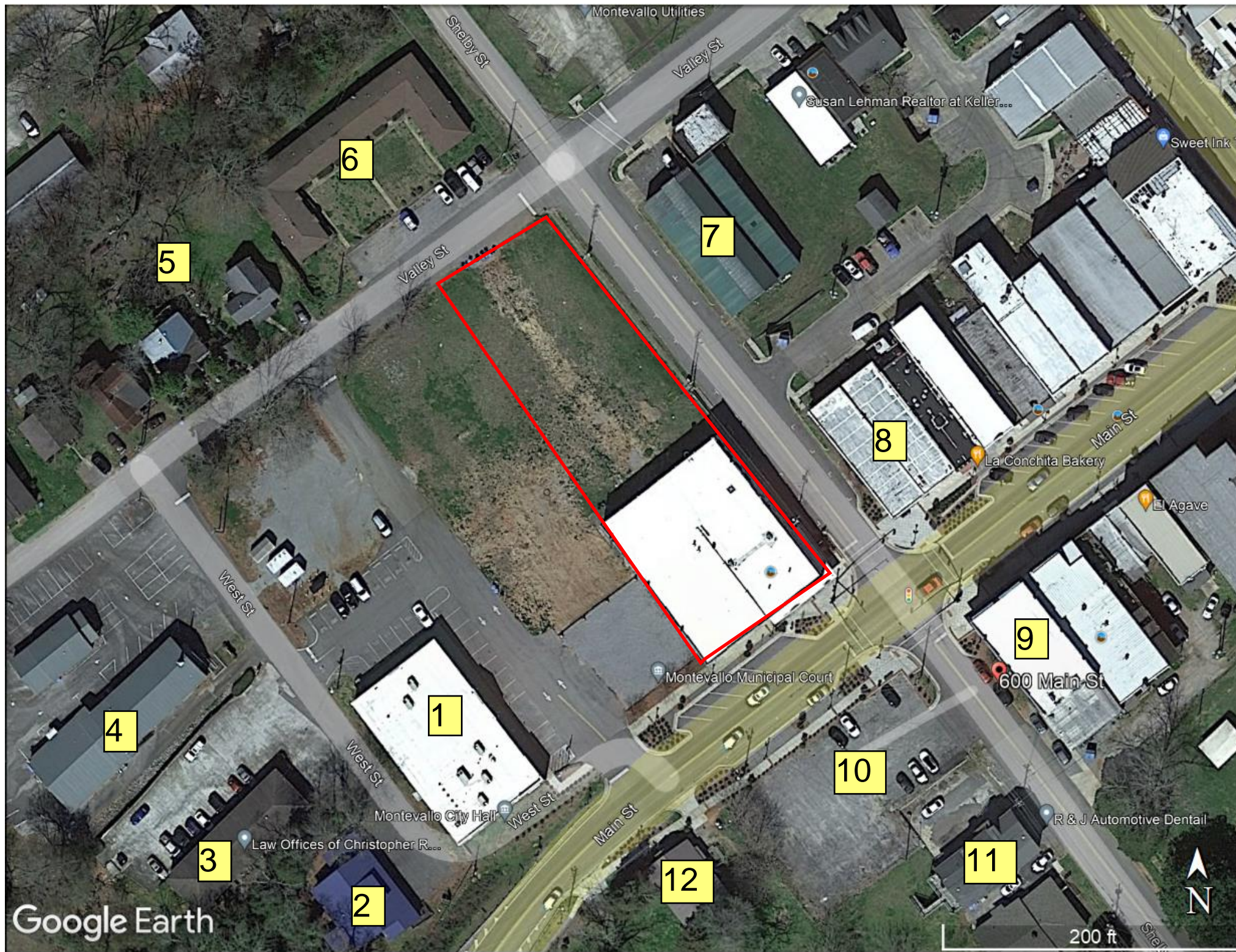
Figure 1: Site Location Map

Former Victory Building  
555 Main Street,  
Montevallo, Alabama 35115

**LEGEND**

 = Subject Property





- ### Legend
- 1 =Montevallo City Hall -541 Main Street
  - 2 =Strategic Guard and Security Services - 200 West Street
  - 3 =Law Offices of Christopher R. Smitherman, -725 West Street
  - 4 =Ward Chapel A.M.E. Church -765 West St.
  - 5 =Residential Homes -505-521 Valley Street
  - 6 =College Corner Apartments-545 Valley Street
  - 7 =Commercial Businesses -608 Valley Street
  - 8 =DREFIT Studio -603 Main Street
  - 9 =Training Champions -604 Main Street
  - 10 = Parking lot -550 Main Street
  - 11 = R&J Automotive Dentail -635 Shelby Street
  - 10 = Residential Home -540 Main Street

Google Earth

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200 WELLINGTON MANOR COURT,  
SUITE 100  
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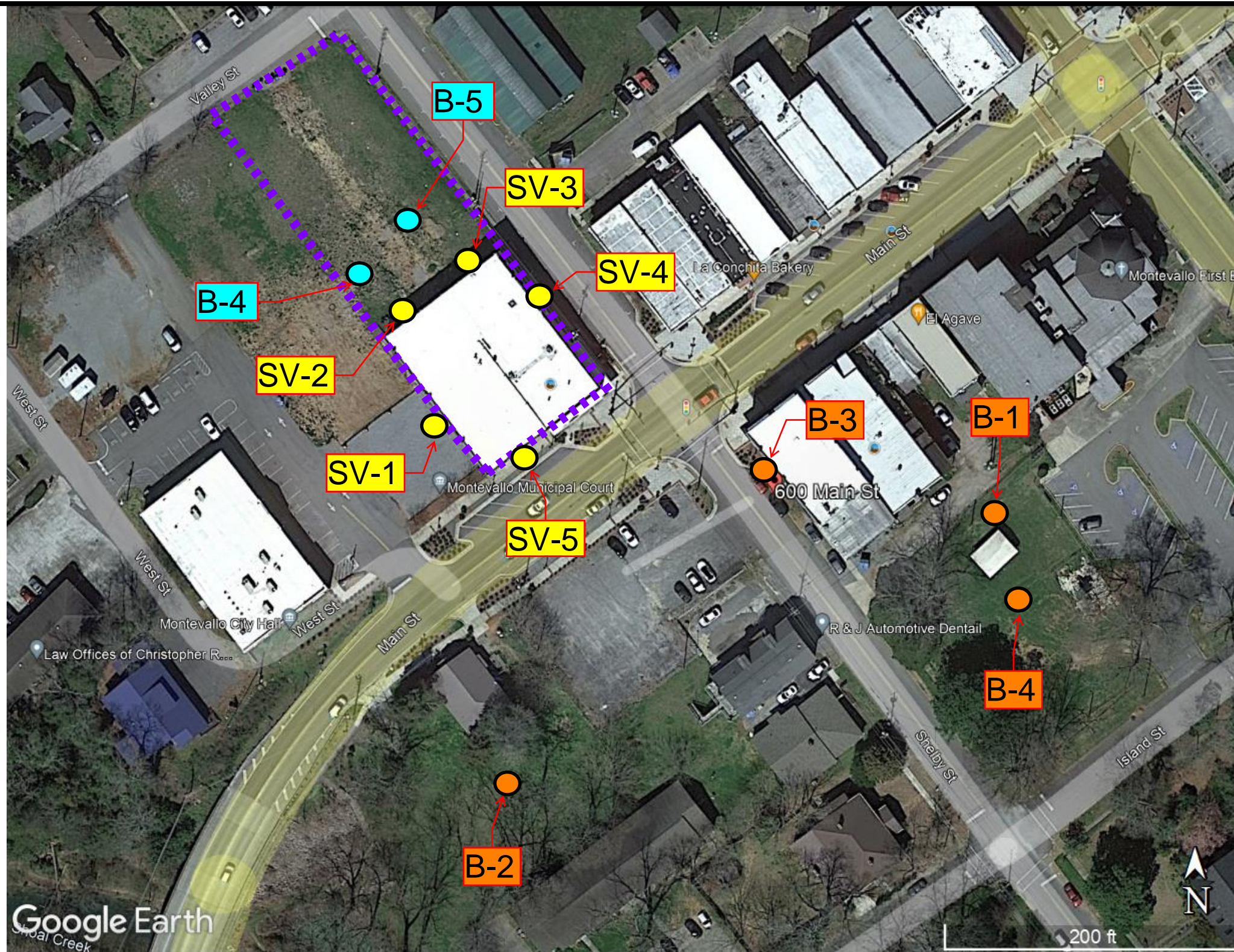
Figure 2: Site Vicinity Map

Former Victory Building  
555 Main Street,  
Montevallo, Alabama 35115

### LEGEND

=Site





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200 WELLINGTON MANOR COURT,  
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Figure 3: Site Map

Former Victory Building  
555 Main Street,  
Montevallo, Alabama 35115

**LEGEND**

- = Background soil boring location (10/26/2023)
- = Soil Vapor Location (10/26/2023)
- = Additional soil boring location (11/09/2023)
- = Subject Property





Limited Additional Environmental Assessment Report  
Former Victory Building – 555 Main Street – Montevallo, AL

APPENDIX A  
SOIL ANALYTICAL RESULTS

A large, abstract teal graphic on the right side of the page, consisting of several overlapping, curved shapes that resemble a stylized letter 'A' or a series of connected curves. The graphic is positioned on the right side, extending from the top right towards the bottom right, and partially overlaps the text area.



# Sutherland

Environmental Company, Inc.

2515 5th Avenue South  
Birmingham, AL 35233  
205-581-9500



Client:	Atlas	Report Date:	October 31, 2023
Attention:	Mr. Alexander Cordan	Reference #	50189
Address:	200 Wellington Manor Ct. Ste. 100 Alabaster, AL 35007	P.O. #	verbal
		Project ID:	ADEM VCP Additional Assessment - Former Victory Building

Sample Matrix:	soil	Analytical	
Date Received:	10/27/23	Analyst:	Kevin Doriety
Date Collected:	10/26/23	Date of Analysis:	10/31/23
Sample Collector:	LP/AC	Method:	<b>EPA Method 6020B</b>

METALLIC ANALYTES						
	FIELD ID	FIELD ID	FIELD ID	FIELD ID		
	B-1 (6'-6.5')	B-2 (3'-3.5')	B-3 (4.5'-5')	B-4 (2'-2.5')		
Analyte, mg/Kg as Total	LAB ID	LAB ID	LAB ID	LAB ID		Detection Limit,mg/Kg
Arsenic	250560	250561	250562	250563		
	BDL	BDL	BDL	BDL		1.0

BDL = Below Detection Limit  
Detection Limit is Reporting Limit  
All results expressed as PPM mg/Kg of total analyte

MT / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety  
Analytical Chemist

## Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:		<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES

**Initial\*:**

MJH

LPH

\* MJH = Michael Heard, KD = Kevin Dorciety, MSH = Matt Hageman, KH = Kelly Hester

**PDF:** A. CORDAN

**Invoice #** 50189

**Notes:** \_\_\_\_\_

Sutherland Environmental Co., Inc.

Sutherland Environmental Company Inc.

**Sample Check-in Form**

<b>Date Received:</b> <u>10/27/23</u>	<b>Invoice #</b> <u>50189</u>
<b>Method of Delivery:</b> <u>hand</u>	<b>Client:</b> <u>ATLAS</u>

1. Did any containers arrive broken? .....	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
* If so, please state field ID with analysis of broken sample(s) _____			
2. Were cooler(s) sealed upon arrival? .....	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
3. Were the samples received at the proper temperature (4°C +/- 2°C)? ....	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
4. Did a chain of custody accompany the samples? .....	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
* Was it properly filled out? .....			
	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
5. Were correct containers used for the analysis requested? .....	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
6. Were all containers properly preserved? .....	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
7. Were all water samples received at the proper pH? .....	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA
8. If VOA vials were present, was there any head space? .....	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA
* If so, please state field ID of deficient sample(s): _____			
9. Were all containers properly labeled and match chain of custody? .....	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
10. Did containers arrive within holding time of analysis? .....	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
* If not, please state field ID and analysis of sample(s) out of holding time: _____			
11. Was client informed of any/all deficiencies in sample check-in? .....	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA
12. Were any samples rejected? .....	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
* If so, please state field ID of rejected sample(s): _____			

Sample Custodian (signed): M.W.

**Sutherland**  
**Environmental Company, Inc.**  
 2515 5th Avenue South  
 Birmingham, AL 35233  
 PHONE: (205)581-9500  
 E-mail: suthlab@bellsouth.net

**CHAIN OF CUSTODY  
 ANALYSIS REQUEST**

SEND REPORT TO: Invoice # **60283**  
 Name: Stephanie Pryor  
 Company: Atlas Technical Consultants, LLC  
 Address: 200 Wellington Manor Court, Suite 100  
Alabaster, AL 35007  
 Phone#: 205-733-8775 Cell # chuck 205-541-6391  
 E-mail(s): stephanie.pryor@oneatlas.com PDF:  yes  no

Client P.O. #

CLIENT: <b>City of Montevallo</b>				PROJECT NAME/#: <b>ADEM VCP Additional Assessment-Former Victory</b>				SAMPLER(S): (print) <b>Stephanie Pryor and Chuck Gooden</b>					
DATE DELIVERED: <b>11-9-23</b>					ANALYSIS REQUESTED / METHOD								
LAB ID	FIELD ID	DATE Collected	TIME Collected	SAMPLE DESCRIPTION (matrix)	Arsenic 6020B								Number of sample containers
<b>250961</b>	B-4 (2'-3')	11/9/23	1300	Soil	x								1
<b>250962</b>	B-5 (2'-3')	11/9/23	1310	Soil	x								1
Preservative: (a)HCL, (b)HNO <sub>3</sub> , (c)H <sub>2</sub> SO <sub>4</sub> , (d)NaOH, (e) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , (f) H <sub>3</sub> PO <sub>4</sub> , (g)Zn Acetate					Preservative:					Last revised			
Container type: (a) Amber, (g) Glass, (p) Plastic, (v) VOC Vial, (air) air bag					Container:					12/13/19			
Relinquished by Sampler: Stephanie Pryor		Date	Time	Received by:	Date	Time	Turn Around Time						
Signed:		11/9/23	15:45	Signed:			Standard: <u>  x  </u> RUSH: _____ 3-DAY 1-DAY 2-DAY SAME DAY						
Relinquished by:		Date	Time	Received by:	Date	Time	Remarks:						
Signed:				Signed:									
Relinquished by:		Date	Time	Received in Lab by:	Date	Time	Refrigerated upon receipt: <input checked="" type="checkbox"/> yes <input type="checkbox"/> no						
Signed:				Signed: <b>M. W.</b>	<b>11/9</b>	<b>4:04</b>							

# Sutherland

Environmental Company, Inc.

2515 5th Avenue South  
Birmingham, AL 35233  
205-581-9500



Client:	Atlas	Report Date:	November 14, 2023
Attention:	Ms. Stephanie Pryor	Reference #	50283
Address:	200 Wellington Manor Ct. Ste. 100 Alabaster, AL 35007	P.O. #	verbal
		Project ID:	ADEM VCP Additional Assessment- Former Victory

Sample Matrix:	soil	Analytical	
Date Received:	11/9/23	Analyst:	Kevin Doriety
Date Collected:	11/9/23	Date of Analysis:	11/14/23
Sample Collector:	SP/CG	Method:	<b>EPA Method 6020B</b>

METALLIC ANALYTES						
	FIELD ID	FIELD ID				
	B-4 (2'-3')	B-5 (2'-3')				
Analyte, mg/Kg as Total	LAB ID	LAB ID				Detection Limit,mg/Kg
Arsenic	BDL	BDL				1.0

BDL = Below Detection Limit  
Detection Limit is Reporting Limit  
All results expressed as PPM mg/Kg of total analyte

MH / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety  
Analytical Chemist

## Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
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5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
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Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:	<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES	

**Initial\*:**

MJH

KH

\* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: S. Pryor, C. Gooden

Invoice # 50283

Notes: \_\_\_\_\_

Sutherland Environmental Co., Inc.



Sutherland Environmental Company Inc.

**Sample Check-in Form**

Date Received:	<u>11/9/23</u>	Invoice #	<u>50283</u>
Method of Delivery:	<u>hand</u>	Client:	<u>ATLAS</u>
1. Did any containers arrive broken? ..... <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
* If so, please state field ID with analysis of broken sample(s) _____			
2. Were cooler(s) sealed upon arrival? ..... <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA			
3. Were the samples received at the proper temperature (4°C +/- 2°C)? .... <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA			
4. Did a chain of custody accompany the samples? ..... <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
* Was it properly filled out? ..... <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
5. Were correct containers used for the analysis requested? ..... <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
6. Were all containers properly preserved? ..... <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA			
7. Were all water samples received at the proper pH? ..... <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA			
8. If VOA vials were present, was there any head space? ..... <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA			
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12. Were any samples rejected? ..... <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
* If so, please state field ID of rejected sample(s): _____			

Sample Custodian (signed): M. W.

Limited Additional Environmental Assessment Report  
Former Victory Building – 555 Main Street – Montevallo, AL

APPENDIX B  
VAPOR ANALYTICAL RESULTS

A large, abstract teal graphic on the right side of the page, consisting of several overlapping, curved shapes that resemble a stylized letter 'A' or a similar geometric form. The graphic is positioned on the right side of the page, extending from the top right towards the bottom right.

07 November 2023

Chuck Gooden  
Atlas Technical Consultants - Alabama  
200 Wellington Manor Court, Suite 100  
Alabaster, AL 35007

H&P Project: ATC110123-12  
Client Project: VCP Addnl Assessment - Fmr Victory Bldg

Dear Chuck Gooden:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 01-Nov-23 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

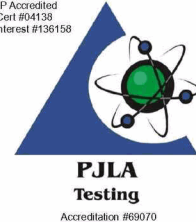


Lisa Eminhizer  
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the National Environmental Laboratory Accreditation Conference (NELAC) for the fields of proficiency and analytes listed on those certificates. H&P is approved as an Environmental Testing Laboratory in accordance with the DoD -ELAP Program and ISO/IEC 17025:2005 programs for the fields of proficiency and analytes included in the certification process and to the extent offered by the accreditation agency. Unless otherwise noted, accreditation certificate numbers, expiration of certificates, and scope of accreditation can be found at: [www.handpmg.com/about/certifications](http://www.handpmg.com/about/certifications). Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.



NELAP Accredited  
TNI Cert #04138  
Agency Interest #136158



Accreditation #69070

Atlas Technical Consultants - Alabama  
200 Wellington Manor Court, Suite 100  
Alabaster, AL 35007

Project: ATC110123-12  
Project Number: VCP Addnl Assessment - Fmr Victory Bldg  
Project Manager: Chuck Gooden

Reported:  
07-Nov-23 13:01

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-1	E311006-01	Vapor	27-Oct-23	01-Nov-23
SV-2	E311006-02	Vapor	27-Oct-23	01-Nov-23
SV-3	E311006-03	Vapor	27-Oct-23	01-Nov-23
SV-4	E311006-04	Vapor	27-Oct-23	01-Nov-23
SV-5	E311006-05	Vapor	27-Oct-23	01-Nov-23

Atlas Technical Consultants - Alabama  
200 Wellington Manor Court, Suite 100  
Alabaster, AL 35007

Project: ATC110123-12  
Project Number: VCP Addnl Assessment - Fmr Victory Bldg  
Project Manager: Chuck Gooden

Reported:  
07-Nov-23 13:01

**DETECTIONS SUMMARY**

Sample ID: **SV-1**

Laboratory ID: **E311006-01**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Carbon disulfide	11	6.3		ug/m3	EPA TO-15	
Toluene	11	3.8		ug/m3	EPA TO-15	QL-1H
Tetrachloroethene	130	6.9		ug/m3	EPA TO-15	
TPHv (C5 - C12)	510	100		ug/m3	EPA TO-15	

Sample ID: **SV-2**

Laboratory ID: **E311006-02**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Carbon disulfide	12	6.3		ug/m3	EPA TO-15	
Chloroform	7.9	4.9		ug/m3	EPA TO-15	
Toluene	4.8	3.8		ug/m3	EPA TO-15	QL-1H
TPHv (C5 - C12)	440	100		ug/m3	EPA TO-15	

Sample ID: **SV-3**

Laboratory ID: **E311006-03**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Toluene	8.6	3.8		ug/m3	EPA TO-15	QL-1H
TPHv (C5 - C12)	230	100		ug/m3	EPA TO-15	

Sample ID: **SV-4**

Laboratory ID: **E311006-04**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Tetrachloroethene	25	6.9		ug/m3	EPA TO-15	
TPHv (C5 - C12)	180	100		ug/m3	EPA TO-15	

Sample ID: **SV-5**

Laboratory ID: **E311006-05**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Toluene	7.4	3.8		ug/m3	EPA TO-15	QL-1H
Tetrachloroethene	12	6.9		ug/m3	EPA TO-15	
TPHv (C5 - C12)	350	100		ug/m3	EPA TO-15	

Atlas Technical Consultants - Alabama  
200 Wellington Manor Court, Suite 100  
Alabaster, AL 35007

Project: ATC110123-12  
Project Number: VCP Addnl Assessment - Fmr Victory Bldg  
Project Manager: Chuck Gooden

Reported:  
07-Nov-23 13:01

**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV-1 (E311006-01) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
<b>Carbon disulfide</b>	<b>11</b>	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>11</b>	3.8	"	"	"	"	"	"	QL-1H
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>130</b>	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

Atlas Technical Consultants - Alabama  
200 Wellington Manor Court, Suite 100  
Alabaster, AL 35007

Project: ATC110123-12  
Project Number: VCP Addnl Assessment - Fmr Victory Bldg  
Project Manager: Chuck Gooden

Reported:  
07-Nov-23 13:01

**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV-1 (E311006-01) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
Bromoform	ND	10	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.5 %		76-134	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		114 %		78-125	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.9 %		77-127	"	"	"	"	
<b>SV-2 (E311006-02) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
<b>Carbon disulfide</b>	<b>12</b>	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
<b>Chloroform</b>	<b>7.9</b>	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	

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Reported:  
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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV-2 (E311006-02) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
Bromodichloromethane	ND	6.8	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>4.8</b>	3.8	"	"	"	"	"	"	QL-1H
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

104 %      76-134  
117 %      78-125  
90.5 %      77-127



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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV-3 (E311006-03) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>8.6</b>	3.8	"	"	"	"	"	"	QL-1H
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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**SV-3 (E311006-03) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23**

Bromoform	ND	10	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

101 %

76-134

"

"

"

"

Surrogate: Toluene-d8

115 %

78-125

"

"

"

"

Surrogate: 4-Bromofluorobenzene

93.3 %

77-127

"

"

"

"

**SV-4 (E311006-04) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23**

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	

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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV-4 (E311006-04) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
Bromodichloromethane	ND	6.8	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>25</b>	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

103 %      76-134  
116 %      78-125  
96.0 %      77-127

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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV-5 (E311006-05) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	ND	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>7.4</b>	3.8	"	"	"	"	"	"	QL-1H
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>12</b>	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV-5 (E311006-05) Vapor    Sampled: 27-Oct-23    Received: 01-Nov-23</b>									
Bromoform	ND	10	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		76-134	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		114 %		78-125	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.7 %		77-127	"	"	"	"	

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Reported:  
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**Petroleum Hydrocarbon Analysis by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV-1 (E311006-01) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
TPHv (C5 - C12)	<b>510</b>	100	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
<b>SV-2 (E311006-02) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
TPHv (C5 - C12)	<b>440</b>	100	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
<b>SV-3 (E311006-03) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
TPHv (C5 - C12)	<b>230</b>	100	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
<b>SV-4 (E311006-04) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
TPHv (C5 - C12)	<b>180</b>	100	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	
<b>SV-5 (E311006-05) Vapor Sampled: 27-Oct-23 Received: 01-Nov-23</b>									
TPHv (C5 - C12)	<b>350</b>	100	ug/m3	1	EK30301	03-Nov-23	03-Nov-23	EPA TO-15	

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**Volatile Organic Compounds by EPA TO-15 - Quality Control**  
**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK30301 - TO-15**

**Blank (EK30301-BLK1)**

Prepared & Analyzed: 03-Nov-23

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3							
Chloromethane	ND	2.1	"							
Dichlorotetrafluoroethane (F114)	ND	7.1	"							
Vinyl chloride	ND	2.6	"							
Bromomethane	ND	16	"							
Chloroethane	ND	8.0	"							
Trichlorofluoromethane (F11)	ND	5.6	"							
1,1-Dichloroethene	ND	4.0	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"							
Methylene chloride (Dichloromethane)	ND	3.5	"							
Carbon disulfide	ND	6.3	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
2-Butanone (MEK)	ND	30	"							
cis-1,2-Dichloroethene	ND	4.0	"							
Chloroform	ND	4.9	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Benzene	ND	3.2	"							
Carbon tetrachloride	ND	6.4	"							
Trichloroethene	ND	5.5	"							
1,2-Dichloropropane	ND	9.4	"							
Bromodichloromethane	ND	6.8	"							
cis-1,3-Dichloropropene	ND	4.6	"							
4-Methyl-2-pentanone (MIBK)	ND	8.3	"							
trans-1,3-Dichloropropene	ND	4.6	"							
Toluene	ND	3.8	"							
1,1,2-Trichloroethane	ND	5.5	"							
2-Hexanone (MBK)	ND	8.3	"							
Dibromochloromethane	ND	8.6	"							
Tetrachloroethene	ND	6.9	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,1,1,2-Tetrachloroethane	ND	7.0	"							
Chlorobenzene	ND	4.7	"							

Atlas Technical Consultants - Alabama  
200 Wellington Manor Court, Suite 100  
Alabaster, AL 35007

Project: ATC110123-12  
Project Number: VCP Addnl Assessment - Fmr Victory Bldg  
Project Manager: Chuck Gooden

Reported:  
07-Nov-23 13:01

**Volatile Organic Compounds by EPA TO-15 - Quality Control**  
**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK30301 - TO-15**

**Blank (EK30301-BLK1)**

Prepared & Analyzed: 03-Nov-23

Ethylbenzene	ND	4.4	ug/m3							
m,p-Xylene	ND	8.8	"							
Styrene	ND	4.3	"							
o-Xylene	ND	4.4	"							
Bromoform	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	12	"							
1,4-Dichlorobenzene	ND	12	"							
1,2-Dichlorobenzene	ND	12	"							
1,2,4-Trichlorobenzene	ND	38	"							
Hexachlorobutadiene	ND	54	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	217		"	214		102	76-134			
<i>Surrogate: Toluene-d8</i>	238		"	208		114	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	357		"	363		98.4	77-127			

**LCS (EK30301-BS1)**

Prepared & Analyzed: 03-Nov-23

Dichlorodifluoromethane (F12)	140	5.0	ug/m3	101		142	59-128			QL-1H
Vinyl chloride	70	2.6	"	52.0		134	64-127			QL-1H
Chloroethane	48	8.0	"	53.6		89.1	63-127			
Trichlorofluoromethane (F11)	96	5.6	"	113		84.6	62-126			
1,1-Dichloroethene	81	4.0	"	80.8		99.9	61-133			
1,1,2-Trichlorotrifluoroethane (F113)	230	7.7	"	155		150	66-126			QL-1H
Methylene chloride (Dichloromethane)	74	3.5	"	70.8		105	62-115			
trans-1,2-Dichloroethene	80	8.0	"	80.8		98.9	67-124			
1,1-Dichloroethane	85	4.1	"	82.4		103	68-126			
cis-1,2-Dichloroethene	77	4.0	"	80.0		95.9	70-121			
Chloroform	100	4.9	"	99.2		105	68-123			
1,1,1-Trichloroethane	120	5.5	"	111		107	68-125			
1,2-Dichloroethane (EDC)	91	4.1	"	82.4		111	65-128			
Benzene	63	3.2	"	64.8		97.7	69-119			



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Reported:  
07-Nov-23 13:01

**Volatile Organic Compounds by EPA TO-15 - Quality Control**  
**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK30301 - TO-15**

**LCS (EK30301-BS1)**

Prepared & Analyzed: 03-Nov-23

Carbon tetrachloride	150	6.4	ug/m3	128		116	68-132			
Trichloroethene	110	5.5	"	110		102	71-123			
Toluene	96	3.8	"	76.8		125	66-119			QL-1H
1,1,2-Trichloroethane	120	5.5	"	111		104	73-119			
Tetrachloroethene	140	6.9	"	138		105	66-124			
1,1,1,2-Tetrachloroethane	180	7.0	"	140		126	67-129			
Ethylbenzene	86	4.4	"	88.4		97.3	70-124			
m,p-Xylene	88	8.8	"	88.4		100	61-134			
o-Xylene	85	4.4	"	88.4		96.1	67-125			
1,1,2,2-Tetrachloroethane	140	7.0	"	140		99.9	65-127			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	226		"	214		106	76-134			
<i>Surrogate: Toluene-d8</i>	226		"	208		109	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	339		"	363		93.3	77-127			

**LCS Dup (EK30301-BSD1)**

Prepared & Analyzed: 03-Nov-23

Dichlorodifluoromethane (F12)	140	5.0	ug/m3	101		138	59-128	3.10	25	QL-1H
Vinyl chloride	67	2.6	"	52.0		129	64-127	4.24	25	QL-1H
Chloroethane	45	8.0	"	53.6		83.1	63-127	7.02	25	
Trichlorofluoromethane (F11)	94	5.6	"	113		83.3	62-126	1.54	25	
1,1-Dichloroethene	81	4.0	"	80.8		99.8	61-133	0.0499	25	
1,1,2-Trichlorotrifluoroethane (F113)	220	7.7	"	155		139	66-126	7.35	25	QL-1H
Methylene chloride (Dichloromethane)	72	3.5	"	70.8		101	62-115	3.38	25	
trans-1,2-Dichloroethene	76	8.0	"	80.8		94.0	67-124	5.06	25	
1,1-Dichloroethane	83	4.1	"	82.4		100	68-126	2.89	25	
cis-1,2-Dichloroethene	76	4.0	"	80.0		94.7	70-121	1.21	25	
Chloroform	100	4.9	"	99.2		102	68-123	2.93	25	
1,1,1-Trichloroethane	110	5.5	"	111		102	68-125	5.05	25	
1,2-Dichloroethane (EDC)	87	4.1	"	82.4		105	65-128	4.88	25	
Benzene	60	3.2	"	64.8		91.9	69-119	6.06	25	
Carbon tetrachloride	140	6.4	"	128		110	68-132	5.70	25	
Trichloroethene	110	5.5	"	110		103	71-123	0.388	25	
Toluene	94	3.8	"	76.8		122	66-119	2.09	25	QL-1H
1,1,2-Trichloroethane	110	5.5	"	111		99.9	73-119	3.75	25	

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Reported:  
07-Nov-23 13:01

**Volatile Organic Compounds by EPA TO-15 - Quality Control**  
**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK30301 - TO-15**

**LCS Dup (EK30301-BSD1)**

Prepared & Analyzed: 03-Nov-23

Tetrachloroethene	140	6.9	ug/m3	138		101	66-124	3.30	25	
1,1,1,2-Tetrachloroethane	170	7.0	"	140		122	67-129	3.24	25	
Ethylbenzene	85	4.4	"	88.4		96.0	70-124	1.29	25	
m,p-Xylene	89	8.8	"	88.4		100	61-134	0.298	25	
o-Xylene	85	4.4	"	88.4		96.0	67-125	0.104	25	
1,1,2,2-Tetrachloroethane	140	7.0	"	140		102	65-127	2.02	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	227		"	214		106	76-134			
<i>Surrogate: Toluene-d8</i>	229		"	208		110	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	356		"	363		98.1	77-127			

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Reported:  
07-Nov-23 13:01

**Petroleum Hydrocarbon Analysis by EPA TO-15 - Quality Control**  
**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK30301 - TO-15**

**Blank (EK30301-BLK1)**

Prepared & Analyzed: 03-Nov-23

TPHv (C5 - C12)	ND	100	ug/m3							
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Project: ATC110123-12  
Project Number: VCP Addnl Assessment - Fmr Victory Bldg  
Project Manager: Chuck Gooden

Reported:  
07-Nov-23 13:01

### Notes and Definitions

- QL-1H The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
- QL-1H The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
- LCC Leak Check Compound
- ND Analyte NOT DETECTED at or above the reporting limit
- MDL Method Detection Limit
- %REC Percent Recovery
- RPD Relative Percent Difference

### Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15 and H&P 8260SV.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at [www.handpimg.com/about/certifications](http://www.handpimg.com/about/certifications).

**VAPOR / AIR Chain of Custody**

DATE: 10/27/23  
Page 1 of 1

Lab Client and Project Information		
Lab Client/Consultant: <u>Atlas</u>	Project Name / #: <u>VCP Additional Assessment - Former Victory Building</u>	
Lab Client Project Manager: <u>Chuck Gooden</u>	Project Location: <u>555 Main Street, Montevillo, AL 35115</u>	
Lab Client Address: <u>200 Wellington Manor Court, Suite 100</u>	Report E-Mail(s): <u>Stephanie.pryor@oneatlas.com</u> <u>Alexander.cordan@oneatlas.com</u> <u>chuck.gooden@oneatlas.com</u>	
Lab Client City, State, Zip: <u>Alabaster, AL 35007</u>		
Phone Number: <u>205-541-6391</u>		
Reporting Requirements	Turnaround Time	Sampler Information
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input checked="" type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____	<input checked="" type="checkbox"/> <b>Standard</b> (7 days for preliminary report, 10 days for final report) <input type="checkbox"/> <b>Rush</b> (specify): _____	Sampler(s): <u>Laura Pryor &amp; Alexander Cordan</u> Signature: <u>[Signature]</u> Date: <u>10/27/2023</u>

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>11/1</u>	Control #: <u>230523.01</u>
H&P Project #: <u>ATC110123-12</u>	
Lab Work Order #: <u>B11006</u>	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: <u>60206</u>	Temp: <u>RT</u>
Outside Lab:	
Receipt Notes/Tracking #: <u>1293TT619051882100</u>	
Lab PM Initials: <u>Sm</u>	

**Additional Instructions to Laboratory:**

\* Preferred VOC units (please choose one):

µg/L    µg/m<sup>3</sup>    ppbv    ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Substab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List		VOCs Short List / Project List		Oxygenates	Naphthalene	TPHv as Gas	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945
								<input type="checkbox"/> 8260SV	<input checked="" type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15							
SV-1		10/27/23	1355	SV	400mL	065	-2	X						X				
SV-2		10/27/23	1417	SV	400mL	031	-1	X						X				
SV-3		10/27/23	1434	SV	400mL	044	-1	X						X				
SV-4		10/27/23	1500	SS	400mL	059	-1	X						X				
SV-5		10/27/23	13:31	SS	400mL	089	-1	X						X				

Approved/Relinquished by: <u>[Signature]</u>	Company: <u>Atlas</u>	Date: <u>10/27/23</u>	Time: <u>2:30pm</u>	Received by: <u>[Signature]</u>	Company: <u>H&amp;P</u>	Date: <u>11/1/23</u>	Time: <u>1305</u>
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

\*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

## VCP - Limited Additional Assessment Report - Former Victory Building, Montevallo, AL

Stephanie Pryor <stephanie.pryor@oneatlas.com>

Mon 12/4/2023 2:42 PM

To: Collins, Crystal <CCollins@adem.alabama.gov>; Thomas, Angelicia J <angelicia.thomas@adem.alabama.gov>

Cc: Steve Gilbert <sgilbert@CityofMontevallo.com>; Rusty Nix <RNix@CityofMontevallo.com>

 1 attachments (5 MB)

City of Montevallo- Limited Additional Assessment Report-555 Main Street\_Montevallo\_AL-11282023.pdf;

Ms. Thomas / Ms. Collins –

Please find attached the additional assessment report that the ADEM has requested that the City of Montevallo complete as an addendum for the VCP application for the Former Victory Building Property located at 555 Main Street in Montevallo, AL. Please let me know if you have any questions regarding this report. Thanks and I hope you have a wonderful evening!

### Stephanie Pryor, P.E.

Environmental Manager / Principal Engineer

AL Licensed Professional Engineer #32455

MS Licensed Professional Engineer #21428



200 Wellington Manor Court, Ste 100

Alabaster, AL 35007

O: 205.733.8775 | C: 205.527.2229

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**ENR #13** Top Construction Management Firm

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