

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

FORSEY CLEANERS & LAUNDRY 856 EAST 25TH STREET OGDEN, UTAH

PREPARED FOR:

OGDEN CITY BUSINESS DEVELOPMENT 2549 WASHINGTON BLVD., SUITE 761 OGDEN, UTAH 84401

ATTENTION: BRANDON COOPER

PROJECT NO. 1210175

MARCH 19, 2021

TABLE OF CONTENTS

EXEC	JTIVE SUMMARY	2
1.0	INTRODUCTION AND SCOPE	
2.0	USER PROVIDED INFORMATION	
3.0	SUBJECT PROPERTY DESCRIPTION. 3.1 Location and Legal Description. 3.2 Property Tax and Recorder Records. 3.3 Site Conditions, Uses and Characteristics. 3.4 Adjacent Property Conditions and Uses. 3.5 Physiographic Site Conditions.	
4.0	HISTORICAL REVIEW	16
5.0	ENVIRONMENTAL RECORDS REVIEW	23
6.0	INTERVIEWS	
7.0	DATA GAPS/DEVIATIONS	
8.0	FINDINGS	
9.0	OPINION	38
10.0	CONCLUSIONS	39
11.0	LIMITATIONS	40
QUALI	FICATIONS OF ENVIRONMENTAL PROFESSIONALS	42
REFER	ENCES	45
FIGUR	ES & APPENDIXES	
	1937 AERIAL PHOTOGRAPH OF SITE 1946 AERIAL PHOTOGRAPH OF SITE 1952 AERIAL PHOTOGRAPH OF SITE 1958 AERIAL PHOTOGRAPH OF SITE 1962 AERIAL PHOTOGRAPH OF SITE 1965 AERIAL PHOTOGRAPH OF SITE 1971 AERIAL PHOTOGRAPH OF SITE 1978 AERIAL PHOTOGRAPH OF SITE 1978 AERIAL PHOTOGRAPH OF SITE 1987 AERIAL PHOTOGRAPH OF SITE 1987 AERIAL PHOTOGRAPH OF SITE 1993 AERIAL PHOTOGRAPH OF SITE 1997 AERIAL PHOTOGRAPH OF SITE 2003 AERIAL PHOTOGRAPH OF SITE 2004 AERIAL PHOTOGRAPH OF SITE 2012 AERIAL PHOTOGRAPH OF SITE 2014 AERIAL PHOTOGRAPH OF SITE 2014 AERIAL PHOTOGRAPH OF SITE 2016 AERIAL PHOTOGRAPH OF SITE 2019 AERIAL PHOTOGRAPH OF SITE 2010 AERIAL PHOTOGRAPH OF SITE 2010 AERIAL PHOTOGRAPH OF SITE 2011 AERIAL PHOTOGRAPH OF SITE 2012 AERIAL PHOTOGRAPH OF SITE 2013 AERIAL PHOTOGRAPH OF SITE 2014 AERIAL PHOTOGRAPH OF SITE 2015 AERIAL PHOTOGRAPH OF SITE 2016 AERIAL PHOTOGRAPH OF SITE 2017 AERIAL PHOTOGRAPH OF SITE 2018 AERIAL PHOTOGRAPH OF SITE 2019 AERIAL PHOTOGRAPH OF SITE 2019 AERIAL PHOTOGRAPH OF SITE	FIGURE 1 FIGURE 2 FIGURE 3 FIGURE 4 FIGURE 5 FIGURE 6 FIGURE 7 FIGURE 8 FIGURE 11 FIGURE 12 FIGURE 12 FIGURE 15 FIGURE 15 FIGURE 15 FIGURE 17 FIGURE 17 FIGURE 18 FIGURE 20 FIGURE 20 FIGURE 22 FIGURE 21 FIGURE 22 FIGURE 3
	PHOTOGRAPHS OF SITE USER QUESTIONNAIRE WATER RIGHT POINTS OF DIVERSION SANBORN MAPS TAX ASSESSOR FILES MEYER CLEANING VILLAGE RCRA GENERATOR FILE RITE AID RCRA GENERATOR FILE DERR INCIDENT REPORT WHEELWRIGHT LUMBER LUST FILE ADSCO LUST FILE	APPENDIX A APPENDIX B APPENDIX C APPENDIX D APPENDIX F APPENDIX G APPENDIX H APPENDIX I APPENDIX J

EXECUTIVE SUMMARY

1. We have performed a Phase 1 Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E 1527-13 of the property described in the Property Location and Legal Description section of this report. Exceptions to, or deletions from, this practice are described in the Data Gaps/Deviations section of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property with the following exception:

A dry cleaner was located on the subject property at 856 East 25th Street from the 1960s to the 1980s. Dry cleaners commonly used chlorinated solvents that can impact the subsurface soils and groundwater if they are released to the environment. Evidence of dry-cleaning solvents have been detected in the soil, soil vapor and groundwater on the subject property, at concentrations exceeding the residential VISL for soil gas and MCL for the groundwater. Additional work to help delineate the extent of the groundwater contamination is ongoing. The former dry-cleaning business and associated subsurface contamination on the property is a recognized environmental condition and a potential vapor encroachment condition.

- 2. Based on historical aerial photographs, Polk city directories, Sanborn Fire Insurance maps, tax appraisal cards and interviews, a house at 856 East 25th Street was built on the subject property by 1906 and was converted into the East Side Nursing Home by the mid 1950s. The house/nursing home was removed by 1961 and replaced with the existing laundry facility at 856 East 25th Street. The building was occupied by Norge Cleaning Village/Meyer's Norge Village from the 1960s to the late 1980s. The north wing of the building was added in the late 1960s/early 1970s. In the late 1980s, the business name changed to Forsey's Norge self serve laundry and then Forsey's Laundry and Cleaning Village, 4-C's Wash Basin and Four Seasons Laundromat. We understand that dry cleaning has not been performed on site since about 1987.
- 3. The subject property is occupied by a one-story, 4,100-square-foot, masonry-block commercial building with a flat composite roof at 856 East 25th Street. The building was occupied by Forsey (4-C) Laundry and Cleaners, a retail laundry business. Interior finishes generally consist of painted drywall and painted masonry block. Floor coverings consist of vinyl tile over concrete and exposed concrete, except the north storage room, which is carpeted. The room on the north end of the building is being used to store commercial washer and dryer parts, ducting and miscellaneous items. Various cleaning and lubricating chemicals and containers reportedly containing used oil are located on a shelving unit on the east side of the room. The ceiling in the northeast portion of the room has some water damage. A maintenance area is located along the east wall of the building, behind the east bank of washing machines. Floor and roof drains located in the maintenance area are reportedly connected to the municipal sewer system. An office/drive-thru service area is located on the south end of the building. The center portion of the building contains the main washing/drying room. Washing and drying machines are located along the east, north and west sides of the room with an island of machines in the center portion. A mechanical room containing a gas-fired boiler and furnace are in the northwest portion of the main washing room. The historical dry-cleaning equipment was stored in this room. Floor drains in the mechanical room and behind the west bank of laundry machines are

reportedly connected to the municipal sewer system. Two restrooms are located in the west-center portion of the building.

An asphalt-paved parking lot extend south, west and northwest of the building. No storm drain inlets were observed in the parking areas. The building is connected to municipal water, sewer and natural gas utilities, presumably from 25th Street to the south.

- 4. Due to the age of the building (1961), it may have been constructed with asbestos-containing building materials, lead-based paints, mercury-containing light switches or fluorescent light ballasts with PCBs. Vegetation on the property is limited to lawn landscaping on the south property edge.
- 5. During our site visit, no evidence of significantly stained soils or stressed vegetation was observed. No evidence of hazardous materials, above-ground or underground storage tanks, unidentified vessels, odors or pools of liquid were observed on site. Monitoring wells previously installed by AGEC are located in the parking areas. A 55-gallon drum of purge water from the monitoring wells is temporarily stored on the north side of the building. Injection wells, gas and oil extraction wells, irrigation wells, and water-withdrawal wells were not observed on site. Overhead power lines extend across the north and south sides of the property. A pole-mounted electrical transformer is near the northwest corner of the property. The transformer did not appear to be leaking and should not contain poly-chlorinated biphenyls (PCBs). A trash dumpster is north of the building.
- 6. Government agency inquiry indicates there are no NPL or RCRA CORRACTS sites within 1 mile of the property. There are no delisted NPL, RCRA Non-CORRACTS TSD, SEMS/CERCLIS, landfills, VCP or Brownfield sites within ½ mile of the property. There is one SEMS-Archive/CERCLIS-NFRAP site within ½ mile of the property at Hoffmans Modern Dry Cleaning at 2475 Monroe Blvd., approximately 500 feet to the west and down gradient.

There are 11 sites listed on the LUST list within ½ mile of the property being investigated including two sites adjacent to the subject property. Our review of the list finds two UST sites adjacent to the subject property. The registered tanks adjacent to the property have been removed.

There is one RCRA Generator on the subject property and one generator adjacent to the property. Meyers Cleaning Village at 856 25th Street on the subject property was a small quantity generator prior to the dry-cleaning operation moving off site by 1987. The current Forsey laundry does not perform dry cleaning on site. The Rite Aid at 851 24th Street to the north and not up gradient was a conditionally exempt small quantity generator of hazardous waste including discarded or expired consumer products and pharmaceuticals.

There are no NRC sites listed on or adjacent to the subject property. There is one DERR Incident site adjacent to the property being investigated at Rite Aid at 851 24th Street. In May 2008 a complaint was made from a patron of Rite-Aid about burning of the throat and strong odors. Subsequent air sampling by the Weber-Morgan Health Department indicated that ammonia was present inside and out of the building. There are no institutional controls or engineering controls on the subject property.

7. Tetrachloroethylene (PCE) and trichloroethylene (TCE) have been identified in the soil, groundwater and soil vapor on the subject property during subsurface environmental investigations by AGEC in 2020 and 2021. Soil samples obtained during the investigations have detected concentrations of 2-Butanone also known as methyl ethyl ketone (MEK), PCE and TCE above the laboratory method detection limits. The detected concentrations of MEK, TCE and PCE were below the respective residential RSL values. The only VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and trichloroethene (TCE) in VP-1 and VP-2. The concentrations of PCE were significantly higher in the two subslab samples than the exterior PRT samples.

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15 and MW-17. The analytical test results indicate that the groundwater samples from 12 of the 20 wells contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits in the groundwater has been TCE in MW-3, MW-10, MW-12, MW-15 and MW-17, which were above the TCE MCL of 0.005 mg/L. The plumes of PCE and TCE appear to extend off site at least 200 feet to the west. The detected subsurface contamination associated with the dry cleaner is a recognized environmental condition and a potential vapor encroachment condition.

8. The nearby SEMS-Archive, LUST, RCRA Generator and UST facilities are unlikely to have impacted the subject property due to the distances, groundwater gradients and remedial activities performed at these sites. Aside from the dry cleaner on the property, a reconnaissance and data base search of properties in the vicinity of the subject property finds no evidence of facilities or environmental conditions that have adversely impacted the subject property or present a potential vapor encroachment condition.

1.0 INTRODUCTION AND SCOPE

Applied Geotechnical Engineering Consultants, Inc. (AGEC) was retained by Ogden City Business Development to conduct a site specific Phase 1 Environmental Site Assessment for one parcel containing 0.38 acres of property at 856 East 25th Street in Ogden, Utah. The site location is shown on Figures 1 to 22. The study was conducted in general accordance with AGEC's proposal dated March 4, 2021.

The purpose of a Phase 1 Environmental Site Assessment (ESA) is to address the potential environmental liabilities on a specific parcel of commercial real estate, taking into account commonly known and reasonably ascertainable information with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) and petroleum products. The Phase 1 ESA is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability ("landowner liability protections," or "LLPs"): that is, the practice that constitutes All Appropriate Inquiry (AAI) into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B).

Inquiries must be performed in a manner consistent with the final rule, published at 40 Code of Federal Regulations (CFR) Part 312 (effective November 1, 2006). AAI requirements may be met using the ASTM E1527-13 or ASTM E2247-08 standards. This Phase 1 ESA, as performed by AGEC, is in general conformance with the 2013 American Society for Testing and Materials (ASTM) standard for environmental assessments (E 1527-13) and the EPA's All Appropriate Inquiry (AAI) rule found at 40 CFR 312.

A review of the site was conducted to identify *recognized environmental conditions* (REC) on the property due to present or previous activities or land uses. ASTM E 1527-13 defines recognized environmental conditions as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term is not intended to include *de minimis conditions* that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. De minimis conditions are not considered to be recognized environmental conditions.

A historical recognized environmental condition (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A controlled recognized environmental condition (CREC) is a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

The Phase 1 ESA practice does not address whether requirements in addition to all appropriate inquiries have been met in order to qualify for the LLPs (such as the continuing obligation not to impede the integrity and effectiveness of activity and use limitations (AULs), or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations).

The study includes a site reconnaissance of the subject and adjoining properties to identify recognized environmental conditions in connection with the property including a reasonable observation of the property and structures, the perimeter of the property and the interior common areas of the structures when accessible. A historical review of the site is performed dating back to the first obvious developed use or back to 1940, whichever is earlier (where practical) via a combination of reasonably ascertainable records and sources such as aerial photographs, USGS maps, fire insurance maps, historical city directories and county tax and recorder records when available. A review of local, state and federal government records is performed including the following lists: Federal NPL, Delisted NPL, SEMS/CERCLIS, SEMS-Archive/CERCLIS-NFRAP, RCRA CORRACTS, RCRA non-CORRACTS TSD, RCRA Generator, institutional control/engineering control registries and NRC/ERNS; State hazardous waste sites, NPL equivalent, CERCLIS equivalent, Brownfield, VCP, spill incidents, landfill/solid waste disposal, leaking storage tank (LUST) and registered storage tank (UST) and institutional control/engineering control registries. Interviews are conducted with the key site manager who may be past or present owners, occupants, neighbors or persons familiar with the site history. Interviews with state and/or local government officials such as fire marshals and environmental personnel are conducted.

This assessment does not address other issues (Non-Scope Considerations, not all-inclusive) including the presence of endangered species, biological agents, asbestos-containing building materials, lead-based paint, mold, radon and lead in the drinking water. Liability/risk evaluations, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, regulatory compliance, health and safety, ecological resources, industrial hygiene, cultural and historic resources, wetland studies or remediation techniques are not within the scope of this report unless specifically stated and agreed upon in AGEC's proposal.

A Business Environmental Risk (BER) as a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, and is not an issue required to be investigated under this ASTM E1537-13 practice and may not be included in this report. A BER may include one or more of the non-scope issues mentioned above (Non-Scope Considerations). Evaluation of non-scope items is not required nor relevant for compliance with the AAI Rule or E1527-13.

This report has been prepared to summarize the data obtained during the study and to present our conclusions. Results of the environmental site assessment are summarized and findings and conclusions relating to the apparent environmental conditions at the site are discussed.

1.1 User Reliance

This report has been prepared for the use of the client, Ogden City Business Development, who can rely on the information contained in this report in assessing environmental concerns associated with the subject property within the limitations of the scope of the report and AGEC's proposal dated March 4, 2021.

1.2 Previous Environmental Site Assessments on the Property

AGEC completed a Phase 1 ESA on the subject property and surrounding properties to the east, north and west (Proposed Gramercy Street Apartments). Findings of the study were reported to Sundance Bay under AGEC Project No. 1170955, dated February 5, 2018. This assessment revealed no evidence of recognized environmental conditions in connection with the property other than that dry cleaners were historically located on the subject property at 856 East 25th Street and 2440 Monroe Blvd. from the 1960s to the 1980s/1990s. Dry cleaners commonly used chlorinated solvents that can impact the subsurface soils and groundwater if they are released to the environment. The historical dry-cleaning businesses on the subject property is a recognized environmental condition.

To help determine if the historical dry cleaner has impacted the property, AGEC conducted a limited subsurface sampling investigation by obtaining soil and groundwater samples and performing a soil vapor investigation with locations inside and outside the existing building. This sampling event was not intended to delineate the extent of the contamination, if present, in the soil vapor, soil or groundwater.

Two exterior borings (GP-1 and GP-2) were advanced near the west and north side of the northwest end of the building, presumably where the historical dry-cleaning equipment was located (Figure 1). Two soil vapor sampling points (PRT-1 and PRT-2) were sampled adjacent to the borings west of the building. Two indoor subslab soil vapor samples were obtained in the northwest room, presumably near the historical dry-cleaning equipment.

The four soil samples did not contain concentrations of the analyzed contaminants above the laboratory reported detection limits with the exception of 2-Butanone also known as methyl ethyl ketone (MEK) and tetrachloroethylene (PCE). The contaminant concentrations were compared to the residential and commercial November 2019 EPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites. RSLs are not necessarily cleanup standards. The RSL's role in site "screening" is to help identify areas, contaminants, and conditions that may require further attention at a particular site. The detected concentrations of MEK and PCE were below the respective residential RSL values.

The only contaminant detected in the two groundwater samples above the laboratory method detection limits was PCE (Table 2 in Appendix F). The concentrations of PCE were 0.0422 mg/L (GP-1) and 0.00661 mg/L (GP-2). The EPA Maximum Contaminant Level (MCL) for PCE is 0.005 mg/L, so both concentrations exceeded the MCL.

The only VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and trichloroethene (TCE) in VP-1 and VP-2.

The concentrations of PCE were significantly higher in the two subslab samples than the exterior PRT samples. The degradation process of PCE produces daughter products as it works toward non-regulated, non-toxic compounds. The primary daughter products of PCE include TCE, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, and vinyl chloride.

According to the EPA, motor vehicle exhaust is a constant source of 1,3-butadiene and it is usually found in ambient air at low levels in urban and suburban areas. Potential sources of chloroform include chlorine-treated drinking water. Chlorinated drinking water can leak from buried water supply or sanitary sewer lines. A floor drain was within several feet of VP-2 and is likely the source of the chloroform. Naphthalene is found in cigarette smoke, car exhaust and diesel fuel.

Based on the limited initial sampling performed at the site, it appeared the PCE contamination is a result of a historical release near the former dry-cleaning equipment. The sources of 1,3-butadiene, chloroform and naphthalene in the soil vapor samples are unknown. As they each were only detected in one of four samples, these compounds did not appear to be widespread contaminants on the property.

Findings of the study were reported to Ogden City Business Development under AGEC Project No. 1200034, dated January 29, 2020 (Appendix F).

To help determine the soil and groundwater conditions in the vicinity of the former dry cleaners, AGEC completed four sampling investigations on site and to the west (down gradient) with five groundwater monitoring wells installed during each sampling event. Findings of the studies were reported to Ogden City Business Development under AGEC Project No. 1200988, dated January 8, 2021, AGEC Project No. 1210017, dated January 28, 2021, AGEC Project No. 1210086, dated February 22, 2021 and AGEC Project No. 1210149, dated March 17, 2021.

AGEC installed five groundwater monitoring wells on site (MW-1 to MW-5) on December 22, 2020 in the vicinity of the previously detected groundwater contamination in borings GP-1 and GP-2 with wells east of the building (up gradient) and northwest, west and southwest of GP-1. AGEC installed four additional groundwater monitoring wells on site (MW-6 to MW-9), and one additional groundwater monitoring well off site (MW-10), down gradient of the highest concentrations of PCE/TCE previously detected in the groundwater in MW-3. The five additional groundwater monitoring wells (MW-6 to MW-10) were installed on January 20, 2021.To help continue the delineation the PCE/TCE plume at the site, one additional groundwater monitoring well was installed on site (MW-11), and four additional groundwater monitoring wells were installed off site (MW-12 to MW-15), down gradient of the concentrations of PCE/TCE previously detected in the groundwater in

MW-10. The five additional groundwater monitoring wells (MW-11 to MW-15) were installed on February 8, 2021. Five more wells (MW-16 to MW-20) were installed off site to the west, down gradient of MW-12. The five additional groundwater monitoring wells (MW-16 to MW-20) were installed on March 4, 2021.

Soil Results

PCE was detected above the laboratory method detection limits in the soil samples obtained from MW-2, MW-3, MW-4, MW-5, MW-7, MW-10, MW-12, MW-14, MW-15 and MW-17. The analytical test results (Table 1 in Appendix F) indicate that the concentrations of PCE were below the November 2020 EPA Residential or Industrial Screening Levels (SLs). TCE was detected above the laboratory method detection limits in the soil samples obtained from MW-12. No other compounds were detected above the laboratory detection limits in the twenty borings.

Groundwater Results

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15 and MW-17. The analytical test results (Table 2 in Appendix F) indicate that the groundwater samples from 12 of the 20 wells contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE in MW-3, MW-10, MW-12, MW-15 and MW-17 which were above the TCE MCL of 0.005 mg/L.

Summary

Based on the soil gas, soil and groundwater samples obtained in the vicinity of the Forsey Cleaners & Laundry facility, a historical release of dry-cleaning solvent occurred. Concentrations of PCE are present in the groundwater above the MCL in 12 of the 20 monitoring wells installed at the site. Concentrations of TCE are present in the groundwater above the MCL in five of the 20 monitoring wells installed at the site. VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and TCE in VP-1 and VP-2. Soil contamination above the EPA SLs has not been encountered during the previous four sampling events.

As the PCE groundwater contamination is above the MCL in MW-17 and MW-17A the extent of the PCE groundwater plume was not delineated with this sampling investigation, and has been shown to impact the neighboring properties to the west of the former dry cleaner. Based on the sampling to date, the PCE and TCE plumes likely extend below the north parking lots for the houses at 824 and 832 East 25th Street, west of MW-17. Figures and summary tables of the analytical sampling results to date are included in Appendix F.

1.3 Related Geotechnical Investigations

AGEC prepared a geotechnical investigation on the subject property and surrounding properties to the east, north and west (Proposed Gramercy Street Apartments). The report was prepared for Sundance Bay, under AGEC Project No. 1170953, dated January 10, 2018. Environmental sampling was not performed as part of the geotechnical investigation.

2.0 USER PROVIDED INFORMATION

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

- A. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
- B. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).
- C. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).
- D. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).
- E. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).
- F. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

A questionnaire was provided to the user of this ESA, Ogden City Business Development, seeking responses to these items (Appendix B). AGEC did not receive a completed user questionnaire.

3.0 SUBJECT PROPERTY DESCRIPTION

3.1 <u>Location and Legal Description</u>

The subject property is located in the southeast quarter of Section 28, Township 6 North, Range 1 West, Salt Lake Base and Meridian at 856 East 25th Street in Ogden, Utah. See Figures 21 and 22.

According to records obtained from the Weber County Recorder's Office, the subject property is located on one parcel (Figure 22). The legal description for the subject property, based on records obtained from the Weber County Recorder's office, is as follows:

Parcel No. 01-059-0012

PART OF LOT 2, BLOCK 8, PLAT B, OGDEN CITY SURVEY, WEBER COUNTY, UTAH: BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 2, RUNNING THENCE NORTH 10 RODS; THENCE EAST 6 RODS; THENCE SOUTH 10 RODS; THENCE WEST TO THE PLACE OF BEGINNING.

3.2 Property Tax and Recorder Records

A review of the Weber County Tax Assessor records indicates that the subject property is located on one parcel (Figure 22). Parcel No. 01-059-0012 contains 0.38 acres at 856 East 25th Street and is owned by 4-C Properties LC.

3.3 Site Conditions, Uses and Characteristics

At the time of our field reconnaissance on March 10, 2021, the subject property was occupied by a one-story, 4,100-square-foot, masonry-block commercial building with a flat composite roof (Photographs 1 to 6) at 856 East 25th Street. The building was occupied by Forsey (4-C) Laundry and Cleaners, a retail laundry business. Interior finishes generally consist of painted drywall and painted masonry block. Floor coverings consist of vinyl tile over concrete and exposed concrete, except the north storage room, which is carpeted. The room on the north end of the building is being used to store commercial washer and dryer parts, ducting and miscellaneous items (Photographs 7 to 10). Various cleaning and

lubricating chemicals and containers reportedly containing used oil are located on a shelving unit on the east side of the room (Photographs 11 to 13). The ceiling in the northeast portion of the room has some water damage (Photograph 14). A maintenance area is located along the east wall of the building, behind the east bank of washing machines (Photographs 15 to 18). Floor and roof drains located in the maintenance area are reportedly connected to the municipal sewer system (Photographs 19 and 20). An office/drive-thru service area is located on the south end of the building (Photographs 21 and 22). The center portion of the building contains the main washing/drying room (Photographs 23 to 27). Washing and drying machines are located along the east, north and west sides of the room with an island of machines in the center portion. A mechanical room containing a gas-fired boiler and furnace are in the northwest portion of the main washing room (Photographs 28 to 30). The historical dry-cleaning equipment was stored in this room. Floor drains in the mechanical room and behind the west bank of laundry machines are reportedly connected to the municipal sewer system (Photographs 31 to 34). Two restrooms are located in the west-center portion of the building (Photographs 35 and 36).

An asphalt-paved parking lot extend south, west and northwest of the building (Photographs 37 to 42). No storm drain inlets were observed in the parking areas. The building is connected to municipal water, sewer and natural gas utilities, presumably from 25th Street to the south.

Due to the age of the building (1961), it may have been constructed with asbestos-containing building materials, lead-based paints, mercury-containing light switches or fluorescent light ballasts with PCBs. Vegetation on the property is limited to lawn landscaping on the south property edge.

During our site visit, no evidence of significantly stained soils or stressed vegetation was observed. No evidence of hazardous materials, above-ground or underground storage tanks, unidentified vessels, odors or pools of liquid were observed on site. A 55-gallon drum of purge water from the monitoring wells is temporarily stored on the north side of the building. Monitoring wells previously installed by AGEC are located in the parking areas. Injection wells, gas and oil extraction wells, irrigation wells, and water-withdrawal wells were not observed on site. Overhead power lines extend across the north and south sides of the property (Photographs 2 and 43). A pole-mounted electrical transformer is

near the northwest corner of the property (Photograph 44). The transformer did not appear to be leaking and should not contain poly-chlorinated biphenyls (PCBs). A trash dumpster is north of the building (Photographs 45 and 46).

The property is relatively flat with a gentle slope down to the west. The U.S. Geological Survey quadrangle map and the topography shown on Figure 9 indicate the elevation for the site is approximately 4,400 feet above mean sea level. Photographs of the site were taken in various locations and are included in Appendix A.

3.4 Adjacent Property Conditions and Uses

South of the property is 25th Street, a wide, two-lane asphalt-paved road with concrete curbs, gutters and sidewalks (Photographs 47 and 48). South of the road are houses at 879 and 873 East 25th Street, Rich Gallegos Law Offices at 863 East 25th Street and Cheveux Salon at 855 East 25th Street (Photograph 49 to 51). To the southwest is Gramercy Avenue.

To the west is a two-story, wood-framed apartment building with a full depth basement at 846 East 25th Street (Photographs 52 to 54). The 1,976-square-foot building has ten one-bedroom apartment units. North of the building is an asphalt-paved parking lot with a storm drain and a 2,262-square-foot masonry-block garage for seven cars (Photographs 55). The west end of the garage has been used as a shop in the past.

East of the laundry and to the north are vacant undeveloped commercial lots that have been cleared of buildings in the past 5 years (Photograph 56).

3.5 Physiographic Site Conditions

3.5.1 Geologic Conditions

The Geologic Map of the Ogden 7.5' Quadrangle, Weber and Davis Counties, Utah, compiled by Adolph Yonkee and Mike Lowe in 2004 was reviewed. The subject property is mapped as Qd₃ - Quaternary deltaic deposits, Bonneville regressive consisting of foreset beds of rhythmically interlayered, gently inclined, fine to medium sand and silt, and topset beds of clast-supported, moderately to well-sorted, pebble and cobble gravel and gravelly sand; gravels contain rounded to subrounded clasts; deposited when Lake Bonneville was at and regressing from Provo shoreline.

The subject property is located in the Weber Delta district in the northern Wasatch Front on the eastern edge of the Basin and Range physiographic province. The Weber Delta is bounded by the Wasatch Mountains to the east and the Great Salt Lake to the north and west.

Ogden was covered by Lake Bonneville in the Pleistocene. This lake reached a maximum water elevation of approximately 5,200 feet above mean sea level. Sediments deposited in Lake Bonneville range from sand and gravel to silt and clay. The silt and clay generally represent sediments deposited during deep water conditions away from canyon mouths and the mountain front. The lake sediments are overlain, in part, by alluvial deposits. The sand and gravel deposited in Lake Bonneville generally represent near shore sediments and deltaic deposits near canyon mouths.

3.5.2 Hydrogeological Setting

During environmental and geotechnical investigations in the vicinity of the property, subsurface water was measured at approximately 7 to 9 feet below the ground surface with a gradient to the west.

A search of the Utah Division of Water Rights database was conducted to determine the location of water rights diversions within ¼ mile of the center of the property. There are two water rights points of diversion within ¼ mile of the center of the property. The Utah Division of Water Rights records indicate that the water rights are for domestic and irrigation purposes. There are no water rights listed on the subject property. A list of water rights points of diversion is included as Appendix C.

3.5.3 Surface Water

Surface water including pits, ponds and lagoons were not observed on the subject property.

3.5.4 Flood Hazard Potential

The on-line Federal Emergency Management Agency (FEMA) flood insurance rate map for the surrounding area (FEMA Map Panel 49057C0427E, effective on December 16, 2005) was reviewed. The subject property is not located within a mapped 100 or 500-year flood hazard area. The subject property is mapped as Zone X, an area determined to be outside the 0.2% annual chance floodplain.



3.5.5 Wetlands Map Review

The National Wetlands Inventory (NWI) maps produced by the U.S. Fish & Wildlife Service (FWS) are microfilmed by the United States Geological Survey (USGS). Wetland maps are prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetland areas are noted on the photographs based on interpretation by the FWS of vegetation, visible hydrology, and geography.

The online Wetlands Interactive Mapper, as provided by the FWS was reviewed for depicted information of wetland areas on the subject site. This map did not indicate the presence of wetlands on the subject site. AGEC personnel did not observe apparent evidence of wetlands during the subject site and vicinity reconnaissance.

3.5.6 Soil Survey Characterization

The United States Department of Agriculture Soil Survey of the Davis-Weber Area indicates that the subject property is located within an unmapped developed portion of Ogden. During the geotechnical investigation, up to approximately 3½ feet of fill was encountered in the borings. The natural soil encountered below the pavement materials and fill consists primarily of lean clay and clayey sand. Silty sand was encountered in most borings between depths of approximately 5 and 15 feet. Lean clay was encountered below the silty sand and generally extends the full depth investigated.

4.0 HISTORICAL REVIEW

A historical review of the property and surrounding properties was conducted by reviewing county tax assessor records, historical topographic maps from 1955, 1969, 1975, 1986, 1992, 1998 and 2011, Sanborn fire insurance maps from 1906, 1950, 1956 and 1963, local street directories (1925 to 2017), historical aerial photographs, previous environmental assessments and performing interviews.

4.1 Past Uses of the Property

Based on historical aerial photographs, Polk city directories, Sanborn Fire Insurance maps (Appendix D), tax appraisal cards (Appendix E) and interviews, a house at 856 East 25th Street was built on the subject property by 1906 and was converted into the East Side Nursing Home by the mid 1950s. The house/nursing home was removed by 1961 and

replaced with the existing laundry facility at 856 East 25th Street. The building was occupied by Norge Cleaning Village/Meyer's Norge Village from the 1960s to the late 1980s. The north wing of the building was added in the late 1960s/early 1970s. In the late 1980s, the business name changed to Forsey's Norge self serve laundry and then Forsey's Laundry and Cleaning Village, 4-C's Wash Basin and Four Seasons Laundromat. We understand that dry cleaning has not been performed on site since about 1987.

4.2 Past Uses of the Adjoining Properties

In 1907, a sawmill was built to the northeast between 24th and 25th on Quincy Avenue and the Wheelwright Lumber was eventually moved from their previous location on Washington Boulevard to Quincy Avenue. The 1925 directory lists Wheelwright Construction Company at 2449 Quincy Avenue and Wheelwright Lumber Company at 2551 Quincy Avenue. The 1906 Sanborn map shows a wood-framed "kindling wood cutting" and "wood sawing" building at 2471 Quincy Avenue and several dwellings on the west center of the block. The Wheelwright Planing Mill is listed in the Polk directories at 2455 Quincy Avenue by 1939. 2445 Quincy Avenue is listed in 1941 as Wheelwright Construction Company and by Malan-Wheelwright Investment Company in 1944 and 1946 and a resident in 1951 and then not listed again. From 1954 to the early 1970s, Wheelwright Planing Mills and Lumber Company or Wheelwright Lumber is listed at 2451-2459 Quincy Avenue. In 1975, Tiger Lumber Sales is listed at 2451 Quincy Avenue while Wheelwright Lumber Company is listed at 2459 Quincy Avenue. Wheelwright Lumber vacated the building in the mid 2000s. When AGEC visited the property in 2015, the remaining Wheelwright Lumber building was a large vacant warehouse/office building in the east center of the property.

The 1950, 1956 and 1963 Sanborn maps indicate the lumber buildings include a planing mill with a concrete floor, a cold storage shed and numerous lumber sheds. Paints were stored in the northeast corner of the main warehouse. The masonry block building was built in 1977. Most of the western sheds were built by the 1950s. A 2005 Phase 1 Assessment on the Wheelwright Lumber property indicated that the buildings for Wheelwright Lumber included a masonry block office, sales and warehouse building with a partial basement and a wood-framed yard office. Out buildings on the west center included a masonry block door shop building, a paint shop and storage sheds. A lime/cement storage area, a wood-staining shop with stains on the concrete floor and a paint shop with overspray on the walls were observed at that time. Most of the western

buildings were removed around 2011. The remaining lumber yard buildings were removed in 2016.

Duplexes were built to the east at 868/870 and 872/874 East 25th Street by the 1920s, replacing older houses at 870 and 874 East 25th Street. The building at 868 East 25th Street was occupied by Ruby's Holiday Gift Shop/Ruby's Yard and Gift House in the mid 1960s. The duplexes were removed in 1974 when an office at 868 East 25th Street was built. The office was occupied by an anesthesiologist, Coldwell Diversified Financial Services, Check Rite, Collection Management Agency, DMT Painting, Associated Financial Systems, Warner Law Firm and Utah Legal Recovery Services until the building was removed in 2016. A brick house on the southeast corner of the block at 886 25th Street was built by 1906. The address of the building was later changed to 2471 and 2475 Quincy Avenue. The south end of the building is indicated as a store in the 1950 and 1963 Sanborn maps. The city directories indicate the business was a grocery (Al's Corner Grocery and Watkins Food Market) in the 1930s and 1940s and then Weldon's Barber Shop from the late 1950s to the mid 1970s when the house and shop were removed.

Houses and a restaurant to the north of the subject property at 837, 853, 859 and 869 East 24th Street were removed by 1954 when a Safeway store was built at 847 East 24th Street. The Safeway store was removed and replaced with a shopping center at 851 24th Street in 1964. The building was occupied by a Safeway grocery and Skaggs/Osco and then a Payless drug store. The Safeway section of the building was occupied with a Farmer's Jack grocery store by 1987 and then an IGA Super Store by 1990. The grocery store vacated the west end of the shopping center in 1994 and this portion of the building remained vacant until the building was removed in 2019. Rite Aid occupied the east end of the building in the late 1990s.

The adjacent property to the west at 846 East 25th Street was occupied by a one-story, wood-framed house by 1906. The house was removed by the early 1950s and replaced with the existing apartment building. The Weber County Assessor indicates the apartments were built in 1950. The garage north of the apartment building was constructed by the late 1950s. Polk city directories from 1979 and 1980 indicate the rear of the property (the west end of the garage) was occupied by Winfree's Furniture Strip Shop.

On the south side of 25th Street, a store was built to the west-southwest at 801 East 25th Street by 1906. Houses and duplexes were built east of the store at 811/813, 819/821, 823, 825, 835, 837, 853 and 863 East along the south side of 25th Street by 1906. The houses at 873 and 879 East 24th Street were built in 1918 and 1915, respectively. The store at 801 East 25th Street was replaced with a residence at 803 East 25th Street by 1921. The house was converted to a store at 803 East 24th Street by 1938. The store was occupied by AM Food Stores until the mid 1950s, S & H Green Stamps from late 1950s to early 1960s, General Electric Care-Free Laundry by 1964 to the late 1960s, Salvation Army Thrift Store from early 1970s to early 1990s, Ogden Rescue Thrift store in the mid 1990s and El Rodeo in the early 2000s. The duplexes at 811 to 821 East 25th Street were converted to apartments by the 1930s and were removed in the late 1980s. The houses at 823 and 825 East 25th Street were removed in the late 1970s and replaced with the building at 825 East 25th Street. The building has been occupied by Intermountain Printing, Document Systems Corp, Webco, Ventanas Restaurant, Dolphin Restaurant, Los Portales de Guanajuato restaurant and El Angel restaurant. The houses at 835 and 837 were removed in the late 1980s and early 1990s, respectively, for the restaurant parking lot. The house at 855 East 25th Street was replaced with a Phillips 66 gas station in 1960. The gas station closed by the mid 1970s and the building was occupied by Mountain West Ambulance in the late 1970s, Weber Emission Tech Center in the early 1990s, Weber County Health Department in 2000 and salons in the early 2000s. The house at 863 East 25th Street has been occupied by law offices since the early 1970s. The house at 873 East 25th Street was built in 1918 and the house at 879 East 25th Street was built in 1915.

The property south of the southeast corner of the block at 2501 Quincy Avenue was occupied by a gas station (Continental Oil from 1925 to early 1930s, LeRoy Johnson gas and oil from early 1930s to late 1930s, Johnson's Conoco from late 1930s to late 1960s, Quincy Conoco in the early 1970s and H&S Service from mid 1970s to 1990s) from at least 1925 to 1992 when the registered underground tanks were removed. The gas station building was rebuilt in 1957. From 1992 to 2017 auto repair shops occupied the property with Cocoletzi Muffler Service occupying the property from 2004 to 2017. The building was removed by 2018.

4.3 Aerial Photograph Review

Aerial photographs taken of the property and surrounding areas in 1937, 1946, 1952, 1958, 1962, 1965, 1971, 1975, 1978, 1980, 1981, 1985, 1987, 1990, 1993, 1997,

2000, 2003, 2006, 2009, 2012, 2014, 2016, 2018, 2019 and 2020, were reviewed for the study.

A brief description of conditions and changes observed on and adjacent to the site, based on our review of photographs is given below.

<u>September 16, 1937</u> - Photograph No. 2-22 (Figure 1) - A house is present on the property at 856 East 25th Street. Houses and trees are to the west. The Wheelwright lumber buildings are to the northeast. Several lumber buildings, garages and trees are in the middle of the block. Houses are south of 25th Street. Individual details of the buildings are difficult to discern due to the relatively low resolution of the photograph.

<u>August 10, 1946</u> - Photograph No. 2B-179 (Figure 2) - The property conditions and surrounding conditions appear to be similar to those in 1937.

<u>August 30, 1952</u> - Photograph No. 2K-78 (Figure 3) - It appears the adjacent house to the west has been removed and replaced with the existing apartment building. Lumber storage buildings have been built adjacent to the north.

May 26, 1958 - Photograph No. 10V-173 (Figure 4) - The garage has been built to the west. The Safeway store has been built on the north center of the block. The gas station to the southeast at 2501 Quincy Avenue has been rebuilt.

<u>April 13, 1962</u> - Photograph No. 4-60 (Figure 5) - The dry cleaner building has been built on the subject property, replacing the house. The gas station to the south has been built at 855 East 25th Street.

May 29, 1965 - Photograph No. 3FF-71 (Figure 6) - The Safeway store and the stores and houses on the northwest end of the block have been removed and replaced with a shopping center and parking lots.

October 10, 1971 - Photograph No. 1MM-169 (Figure 7) - The dry cleaner building has been expanded to the north.

<u>April 21, 1975</u> - Photograph No. 3-27 - The two duplexes to the east have been removed and replaced with an office building.

<u>August 24, 1978</u> - Photograph No. 178-44 (Figure 8) - The main masonry block Wheelwright Lumber building has been built on the east side of the block.

<u>April 13, 1980</u> - Photograph No. 07-275 - Several houses on Quincy Avenue have been removed for more lumber storage.

<u>August 4, 1981</u> - Photograph No. 107-22 - The property conditions and surrounding conditions appear to be similar to those in 1980.

<u>1985</u> - Photograph No. 26-6N-1W (Figure 9) - The southwest end of the shopping center building to the north has been expanded. The gas station to the south at 855 East 25th Street has been removed for the salon building.

<u>July 24, 1987</u> - Photograph No. 305-12 (Figure 10) - The property conditions and surrounding conditions appear to be similar to those in 1985.

May 6, 1990 - Photograph No. 6-6 - The property conditions and surrounding conditions appear to be similar to those in 1987.

<u>August 14, 1993</u> - Photograph 5903-261 (Figure 11) - The property conditions and surrounding conditions appear to be similar to those in 1990.

October 4, 1997 - Photograph 10103-137 (Figure 12) - The property conditions and surrounding conditions appear to be similar to those in 1993.

<u>September 1, 2000</u> - Photograph D-8 - The property conditions and surrounding conditions appear to be similar to those in 1997.

<u>September 21, 2003</u> - Photograph No. 12TVL185630 (Figure 13) - The property conditions and surrounding conditions appear to be similar to those in 2000.

<u>September 23, 2006</u> - Photograph No. 12TVL160600 (Figure 14) - The lumber buildings on the east side of the block appear to be vacant and the lumber has been removed from the storage yards and the southeast end of the block.

<u>April 22, 2009</u> - Photograph No. 12TVL180620 (Figure 15) - The property conditions and surrounding conditions appear to be similar to those in 2006.

<u>April 7, 2012</u> - Photograph No. 12TVL180620 (Figure 16) - The lumber sheds to the north and east have been removed.

October 8, 2014 (Figure 17) - The property conditions and surrounding conditions appear to be similar to those in 2012.

<u>August 28, 2016</u> (Figure 18) - The remaining Wheelwright lumber buildings to the east have been removed.

May 4, 2018 - The office to the east has been removed. The Cocoletzi Muffler building at 2501 Quincy Avenue has been removed.

<u>August 7, 2019</u> (Figure 19) - The property conditions and surrounding conditions appear to be similar to those in 2018.

April 10, 2020 - Most of the shopping center to the north has been removed.

<u>September 11, 2020</u> (Figure 20) - The remaining portion of the shopping center to the north has been removed.

5.0 ENVIRONMENTAL RECORDS REVIEW

The environmental records review is performed by obtaining and reviewing the most recent versions of the publically available databases provided by the US EPA, the Utah Department of Environmental Quality and other state or local agencies. The databases are reviewed to help indicate the presence of recognized environmental conditions in connection with the subject property. Most of the databases are currently available on the internet. The lists are limited to information in the databases at the time the lists were compiled and may not necessarily be practically reviewable or accurate. We have made no independent investigation as to the accuracy or completeness of the information derived from these databases. We have assumed that the information provided by these databases is accurate and complete.

5.1 Federal NPL Site List

The National Priorities List (NPL) of August 31, 2020, was reviewed for sites listed within 1 mile of the property. The NPL is an information and management tool of the Superfund site cleanup process. The NPL sites are those considered by EPA to have the highest priority for cleanup pursuant to the EPA's Hazard Ranking System and have been targeted for long term remediation under the Superfund program. The NPL serves primarily informational purposes, identifying for the States and the public those sites or other releases that appear to warrant remedial actions.

Our review of the list finds no NPL sites located within 1 mile of the subject property being investigated.

5.2 Federal Delisted NPL Site List

The National Priorities List (NPL) of August 31, 2020, was reviewed for NPL sites that have been delisted within ½ mile of the property. Sites are deleted from the NPL list under the following conditions: Section 300.425(e) of the NCP provides that sites may be deleted from the NPL where no further response is appropriate. In making a determination to delete a site from the NPL, EPA shall consider, in consultation with the State, whether any of the following criteria have been met: responsible parties or other persons have implemented all appropriate response actions required; all appropriate Fund-financed (Hazardous Substance Superfund Response Trust Fund) response under CERCLA has been implemented, and no further response action by responsible parties is appropriate; or the remedial investigation has shown that the release poses no significant threat to public

health or the environment and, therefore, the taking of remedial measures is not appropriate. Even if a site is deleted from the NPL, where hazardous substances, pollutants, or contaminants remain at the deleted site above levels that allow for unlimited use and unrestricted exposure, EPA policy requires that a subsequent review of the site be conducted at least every 5 years after the initiation of the remedial action at the deleted site to ensure that the action remains protective of public health and the environment. If new information becomes available which indicates a need for further action, EPA may initiate or order remedial actions.

Our review of the list finds no delisted NPL sites within ½ mile of the property.

5.3 Federal SEMS/CERCLIS Site List

The EPA Comprehensive Environmental Response, Compensation and Liability Act Information System (CERCLIS) has been retired by the EPA and replaced with the Superfund Enterprise Management System (SEMS). SEMS includes the previous CERCLIS information and has added additional data fields. The SEMS listing of March 15, 2021, was examined for sites located within ½ mile of the subject property. This list reports facilities with potential to cause human health or safety problems or significant ecological or environmental damage.

Our review of the list finds no SEMS/CERCLIS sites located within $\frac{1}{2}$ mile of the property being investigated.

5.4 Federal SEMS-Archive/CERCLIS NFRAP Site List

The EPA CERCLIS No Further Remedial Action Planned (NFRAP) is now known as the SEMS-Archive. The SEMS-Archive site listing of March 15, 2021, was examined for sites located within ½ mile of the subject property. The Archive designation indicates the site has no further interest under the Federal Superfund Program based on available information. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. The Archive designation is removed and the site is returned to the CERCLIS inventory if more substantive assessment and/or any cleanup work is necessary under the Federal Superfund program.

Our review of the list finds one SEMS-Archive/CERCLIS-NFRAP site located within ½ mile of the subject property at Hoffmans Modern Dry Cleaning at 2475 Monroe Blvd./790 East 25th Street, approximately 500 feet to the west and down gradient. A historical drycleaning operation, Hoffman's Modern Dry Cleaning, was present at this location from at least 1958 to 1987 within a residential neighborhood. The property is adjacent to a multi-tenant apartment building. The site was discovered on the basis of its operational history by the Utah Department of Environmental Quality (UDEQ). No releases of hazardous substances have been reported or confirmed at the site. The surface water, air, and soil pathways did not appear to be a concern based on the limited information gathered to date. Groundwater would be expected to be the most viable exposure pathway, but there were no down gradient municipal wells and the closest up gradient municipal well, which is now inactive, has historically shown no signs of contamination. Because contamination with volatile organics is possible given the site history, on-site soil sampling and/or shallow groundwater sampling could help determine potential vapor intrusion concerns on or near the site. At the time of this decision (October 2016), vapor intrusion was not an HRS eligible pathway and there appeared to be no firm basis for conducting an additional investigation. The site was added to the NRFAP list in October 2016.

5.5 Federal RCRA CORRACTS Facility List

The EPA RCRA CORRACTS List of January 30, 2021, was reviewed for facilities within 1 mile of the site. Facilities are listed if they are hazardous waste handlers who have been notified by the EPA to undertake corrective action under RCRA.

Our review of the list finds no RCRA CORRACTS sites listed within 1 mile of the property.

5.6 Federal RCRA NON-CORRACTS TSD Facility List

The EPA RCRA NON-CORRACTS TSD List of January 30, 2021, was reviewed for facilities within ½ mile of the site. Facilities are listed if they treat, store or dispose of hazardous waste as defined and regulated by RCRA. This list does not infer that the facility has released any hazardous substance to the environment.

Our review of the list finds no RCRA non-CORRACTS TSD facilities within $\frac{1}{2}$ mile of the subject property.

5.7 Federal RCRA Generators List

The EPA RCRA Generator List dated January 30, 2021 and the Utah Division of Waste Management and Radiation Control (DWMRC) RCRA Info Master list of March 1, 2021, were reviewed for facilities on or adjacent to the subject property. Facilities are listed if they generate, transport or store hazardous materials as defined and regulated by RCRA. The list does not infer that the facility has released any hazardous substance to the environment.

Our review of the list finds one RCRA generators listed on the subject property and one facility adjacent to the north.

- A. Meyers Cleaning Village 856 25th Street, subject property. The building was occupied by Norge Cleaning Village/Meyer's Norge Village from the 1960s to the late 1980s. In the late 1980s, the business name changed to Forsey's Norge self serve laundry and then Forsey's Laundry and Cleaning Village, 4-C's Wash Basin and Four Seasons Laundromat. We understand that dry cleaning has not been performed on site since about 1987 (Appendix F). The property is listed on the RCRA Generator list for Meyers Cleaning Village at 856 25th Street. The facility was a small quantity generator of hazardous waste.
- B. Rite Aid 851 24th Street, adjacent to the north and not up gradient. The facility was a conditionally exempt small quantity generator (Appendix G) of hazardous waste including discarded or expired consumer products and pharmaceuticals. The facility was inspected by the Utah DWMRC in October 2015 and was in compliance with the hazardous waste storage. Contingency plans and associate training records were subsequently submitted by Rite Aid as they were missing during the inspection.

5.8 Federal Institutional Control/Engineering Control Registry

The EPA federal institutional control(IC) registry for March 2021 was reviewed. The federal database of ICs at construction complete (CC) sites listed on the National Priorities List is known informally as the Institutional Controls Tracking System (ICTS). ICs such as deed restrictions, zoning and local ordinances are tools used to ensure the protection of human populations and the environment at many contaminated sites. ICs are meant to supplement engineering controls and ICs will rarely be the sole remedy at a site. There is no federal

engineering control (EC) registry. Engineering controls include items such as soil caps, fences to help restrict access to contaminated properties. Sites with institutional control or engineering controls would typically be included on the SEMS/CERCLIS, VCP, LUST or Brownfield lists.

Our review of the registries finds no federal institutional controls or engineering controls on the subject property.

5.9 Federal NRC List

The US Coast Guard National Response Center (NRC) list dated March 15, 2021, was reviewed for sites located on or adjacent to the subject property. The list was formerly maintained by the EPA as the Emergency Response Notification System (ERNS) and was redesigned in 2000 with the data now residing at the NRC. The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. In addition to gathering and distributing spill data for Federal On-Scene Coordinators and serving as the communications and operations center for the National Response Team, the NRC maintains agreements with a variety of federal entities to make additional notifications regarding incidents meeting established trigger criteria.

Our review of the list finds no NRC sites listed on or adjacent to the subject property being investigated.

5.10 DERR Incident Notification Database

The Utah DERR Incident Notification Database list dated March 15, 2021, was reviewed for sites within ½ mile of the subject property. This list is a compilation of phone calls to the Utah DERR concerning potentially hazardous materials that may have been accidentally or negligently released, including spills, leaks, illegal dumping, fish kills and fires.

Our review of the list finds one DERR Incident site listed adjacent to the subject property at Rite Aid at 851 24th Street to the north and not up gradient. In May 2008, a complaint was made from a patron of Rite-Aid about burning of the throat and strong odors. Subsequent air sampling by the Weber-Morgan Health Department indicated that ammonia was present inside and outside of the building (Appendix H). No further information about the source of the ammonia was described.

5.11 State and Tribal Equivalent NPL List

Utah does not have a state-equivalent NPL list and relies on the EPA list.

5.12 State and Tribal Equivalent CERCLIS List

Utah does not have a state-equivalent CERCLIS list and relies on the EPA list.

5.13 State and Tribal Landfill and/or Solid Waste Disposal Site List

The open and closed Utah State Landfill and Solid Waste Disposal Site lists of 2019, were reviewed for landfills or disposal sites within $\frac{1}{2}$ mile of the subject property.

Our review of the list finds no landfills within ½ mile of the subject property.

5.14 Utah Department of Environmental Quality Leaking Underground Storage Tank (LUST) Sites

The Utah Department of Environmental Quality Leaking Underground Storage Tank (LUST) list dated March 15, 2021, was reviewed for sites within ½ mile of the subject property. The list identifies only those facilities that have been reported to the DERR as potential leaking underground storage tank sites. The list is limited to information in the data base at the time the list was printed.

Our review of the list finds 11 sites listed on the LUST list within ½ mile of the property being investigated including two sites adjacent to the subject property.

- A. Adsco Services 855 25th Street approximately 100 feet to south-southwest and not up gradient. Two tanks (10,000-gallon gasoline and 1,000 gallon waste oil) were removed from this facility in August 1991. Groundwater contamination was detected at that time. In August 1994, the groundwater was resampled and no contaminants were detected above the laboratory method detection limits. The groundwater was approximately 7 feet below the ground surface. After reviewing the reports documenting the sampling efforts, the DERR recommended that no further action would be required and the LUST file (DERR facility 1200147, release HGV) for this facility was closed in April 1995. No registered underground tanks remain at this facility. Copies of the LUST files are included in Appendix I.
- B. Wheelwright Lumber 2459 Quincy Avenue approximately 100 feet to the east and likely up gradient. A 9,000-gallon gasoline tank was removed from this facility

in August 1991 from the south side of the main building. Groundwater contamination was detected at that time and approximately 35 cubic yards of impacted soil were reportedly excavated, aerated on site and placed back in the excavation. Groundwater sampling performed west and down gradient of the tank in 1992 did not detect significant contamination. An adjacent 4,000-gallon gasoline tank was removed in September 1995 and groundwater contamination was also detected at that time. Soil and groundwater sampling performed west and down gradient of the tanks in the fall of 1995 did not detect contamination above the laboratory detection limits. The depth to groundwater was approximately 7 feet with an assumed gradient to the west. After reviewing the reports documenting the sampling and remedial efforts, the DERR recommended that no further action would be required and the two LUST files (DERR facility 1200443, releases HBM and JDV) for this facility were closed in March 1998. No registered underground tanks remain at this facility. Copies of the LUST files are included in Appendix J.

C. H & S Services - 2501 Quincy Avenue- approximately 150 feet to the southeast and not up gradient. Four tanks (three 4,000-gallon gasoline and one 500-gallon waste oil) were removed from this facility in September 1992. Groundwater contamination detected during the tank removal activities included TPH-gasoline and benzene with the TPH-gasoline slightly above the Utah Risk Based Corrective Action (RBCA) Tier 1 screening levels. The groundwater was approximately 11 feet below the ground surface.

Soil contamination detected during the tank removal activities was limited to TPH-gasoline (16.0 mg/kg) in one sample near the southwest dispenser island and oil and grease (48 and 100 mg/kg) from the two samples below the waste oil tank. The soil contaminants were all below the respective Utah ISL.

After reviewing the reports documenting the sampling efforts, the DERR recommended that no further action would be required and the LUST file (DERR facility 1200074, release HUV) for this facility was closed in September 1999. No registered underground tanks remain at this facility.

AGEC performed subsurface investigations on the property in June and October 2017. Based on the soil samples obtained from the 12 borings, TPH-DRO,

TPH-GRO, oil and grease, ethylbenzene and/or total xylenes were detected above the ISL in samples from five borings with only total xylenes slightly above the RBCA Tier 1 screening levels. Groundwater contamination was limited to one boring with TPH-DRO and oil and grease concentrations above the RBCA Tier 1 screening levels and TPH-GRO above the ISL. Based on the sampling locations, it appears releases to the subsurface soils have occurred near the west side of the previous dispenser islands and near the underground tank basins. The removal of the petroleumimpacted soils was performed in November and December 2018. During the excavation work some remaining capped product piping below the dispenser islands was encountered and removed for recycling. No underground tanks were encountered. A total of 1,173 tons of petroleum-impacted soils were removed for disposal at ET Technologies facility. The impacted soils did not extend off site or below the adjacent streets and sidewalks. The groundwater was encountered approximately 8½ to 9 feet below the ground surface. During the excavation work, an estimated 20,000 gallons of water was pumped from the excavations and subsequently processed in a Baker tank and charcoal filter assembly prior to being discharged to the local sewer system. Subsequent groundwater monitoring at the site has indicated that the contaminant levels have been below the ISL. The LUST file remains open but is expected to be closed with no further action required in 2021. No registered underground tanks remain at this facility.

- D. Chevron/7-Eleven 883 24th Street approximately 450 feet to the north-northeast and not up gradient. In August 1988, a subsurface investigation documented the presence of TPH in the soil and groundwater. Groundwater monitoring wells sampled in 1994 indicated that the groundwater contamination had decreased below the Utah Initial Screening Levels (ISL). The groundwater was approximately 7½ feet below the ground surface with a gradient to the west-northwest. After reviewing the reports documenting the sampling and remedial efforts, the DERR recommended that no further action would be required and the LUST file (DERR facility 1200038, release FDR) for this facility was closed in April 1995. No registered underground tanks remain at this facility.
- E. 7-Eleven 803 24th Street approximately 500 feet to the northwest and not up gradient. A release of petroleum hydrocarbon contaminants was discovered in August 1998 during underground product piping upgrade activities. An air

sparge/soil vapor extraction system was subsequently installed and operated between March and December 2004. The groundwater was approximately 6 to 7 feet below the ground surface with a gradient to the west-northwest. After reviewing the reports documenting the sampling and remedial efforts, the DERR recommended that no further action would be required and the LUST file (DERR facility 1200230, release KPM) for this facility was closed in August 2006.

A second LUST file (release MSD) was opened at this facility when three registered underground tanks were removed in September 2010. Approximately 24 tons of impacted soil was subsequently removed. After reviewing the reports documenting the sampling and remedial efforts, the DERR recommended that no further action would be required and the second LUST file for this facility was closed in July 2013. No registered underground tanks remain at this facility.

- F. Minut Lube 806 26th Street approximately 750 feet to the southwest and not up gradient. Four 3,000-gallon oil tanks were removed from this facility in October 1989. Oil and grease was detected in the tank closure soil samples. A groundwater monitoring well was installed and sampled in May 1990. No contaminants were detected above the laboratory method detection limits. The groundwater was approximately 6½ feet below the ground surface. After reviewing the reports documenting the sampling efforts, the DERR recommended that no further action would be required and the LUST file (DERR facility 1200134, release FMD) for this facility was closed in December 1995. No registered underground tanks remain at this facility.
- G. Valley Meat Market/Stimson's Market 2605 South Monroe Blvd. approximately 1,100 feet to the southwest and not up gradient. There have been at least three releases from the tank system at this facility. The first two releases occurred first in 1979 and second in the spring of 1982. These were reported and investigated when the former tank system was removed in October 1989. A subsurface investigation was conducted between November 1990 and March 1991 when 15 borings were advanced and completed as monitoring wells. The sampling results at that time indicated the soil contamination was below the Utah RBCA Tier 1 screening levels. Groundwater was impacted above the Tier 1 screening levels. A bio-sparge system was installed in 1992 and operated until 1995. A third release

was detected during the monitoring of the remedial progress of the other two releases in June 1995 when the contaminant levels increased. The groundwater was approximately 9 to 11 feet below the ground surface with a gradient to the west-northwest. At the time the third release was detected, Stimson's had the tanks emptied and lined to abate the current release and to help prevent future releases. After reviewing the reports documenting the sampling and remedial efforts, the DERR recommended that no further action would be required and the LUST file (DERR facility 1200227, releases FBI and JKJ) for this facility were closed in April 1997.

A third LUST file (release MJU) was opened in June 2008. The four remaining tanks on site were removed in January 2009. In 2009, 3,143 tons of petroleum impacted soil were excavated and removed and approximately 20,000 gallons of impacted groundwater was removed, treated and discharged. A subsurface investigation in February 2016 identified four localized areas where the soil contamination was above the Utah ISL. Approximately 371 tons of impacted soil was removed from the site in September 2016. Weber State University has since re-developed the site with construction of a new Community Education Center and associated parking and landscaped areas. Groundwater monitoring at the site has indicated that a small benzene plume remains on site above the Utah ISL. This LUST file remains open and under investigation. No registered underground tanks remain at this facility.

H. Red Duck II - 809 28th Street, approximately 2,400 feet to the south and not up gradient. The former Red Duck II site is currently a Fast Stop drive-through convenience store without gasoline/diesel filling services. Prior to 1998, the site was used as a gasoline and diesel filling station. In 2001, a 10,000-gallon gasoline UST, an 8,000-gallon gasoline UST, a 2,000-gallon gasoline UST, a 500-gallon diesel UST, and three dispenser islands were removed from the Red Duck II site. Comments on the UST removal inspection form state that the 500-gallon diesel UST "was punctured during excavation" but the site was "cleaned up." These tanks are recorded as having been installed in 1968 and 1975 and used until 1998. Soil and groundwater analytical results for samples collected during the 2001 tank removal were lost so UST closure soil/groundwater re-sampling was conducted in July 2011. BTEXN, TPH-DRO and TPH-GRO were detected at concentrations below

the ISL in the soil samples. The groundwater contained TPH-GRO concentrations exceeding the ISL and a benzene concentration exceeding the RBCA Tier 1 screening level. Based on these findings a LUST file was opened in August 2011. The groundwater at the site is 8 to 10 feet below the ground surface with a gradient to the west-northwest. Additional sampling in May 2012 detected soil and groundwater contamination above the Utah RBCA Tier 1 screening levels. No further action has been reported to the DERR and the LUST file (DERR facility 1200062, release MUZ) remains open. No registered underground tanks remain at this facility.

- I. Flying J 2490 Harrison Boulevard approximately 2,500 feet to the east and potentially up gradient. Five tanks were removed from this facility in August 1994. Approximately 750 tons of impacted soil was subsequently removed. Groundwater monitoring wells sampled in November 1999 did not detect contamination above the Utah RBCA Tier 1 screening levels. The groundwater was between 9 and 12 feet below the ground surface with a gradient to the west. After reviewing the reports documenting the sampling and remedial efforts, the DERR recommended that no further action would be required and the LUST file (DERR facility 1200056, release IJV) for this facility was closed in February 2000. No registered underground tanks remain at this facility.
- J. Imagine Jefferson/Former Ogden School District Shop 2444 Adams Avenue approximately 2,600 feet to the west and not up gradient. Two tanks were removed from this facility in April 2016 when they were encountered during the construction of a sidewalk. Soil contamination detected at that time was below the Utah ISL. Based on a review of the sampling results, the DERR recommended no further corrective action be taken at this time and the LUST file (DERR facility 1200639, release NKD) at this facility was closed in May 2016. There are no registered tanks remaining at this facility.
- K. Kwick Stop 506 26th Street approximately 2,600 feet to the southwest and not up gradient. Five tanks were removed from this facility in December 2005. Soil contamination was detected at that time. With the exception of a small volume, the impacted soils were not contaminated above the Utah RBCA Tier 1 screening levels. Groundwater was not encountered during the tank removal activities or subsequent

subsurface investigations. After reviewing the reports documenting the sampling efforts, the DERR recommended that no further action would be required and the LUST file (DERR facility 1200281, release MAU) was closed in September 2006. No registered underground tanks remain at this facility.

5.15 <u>Utah Department of Environmental Quality Underground Storage Tank (UST) Sites</u>

The DERR UST list of March 15, 2021, was reviewed for sites on or adjacent to the subject property. This is a list of registered USTs in the State of Utah. The list is limited to information in the database at the time the list was printed.

Our review of the list finds two UST adjacent to the subject property.

- A. Adsco Services 855 25th Street adjacent to south and not up gradient. Two tanks (10,000-gallon gasoline and 1,000-gallon waste oil) were removed from this facility in August 1991. The tanks were installed in the early 1960s. No registered underground tanks remain at this facility (Appendix I).
- B. Wheelwright Lumber 2459 Quincy Avenue- adjacent to east-northeast of subject property. A 9,000-gallon gasoline tank was removed in August 1991 and a 4,000-gallon gasoline tank was removed in September 1995 from the south side of the main building. The tanks were installed around 1978-1979. No registered underground tanks remain at this facility (Appendix J).

5.16 State and Tribal Institutional Control/Engineering Control Registry

The March 2021 list of facilities maintained by the Utah Department of Environmental Quality of sites with institutional control or engineering controls was reviewed for facilities on the subject property.

Our review of the list finds no institutional controls, engineering controls or environmental covenants on the subject property.

5.17 State and Tribal Voluntary Cleanup Sites

The Utah DERR Voluntary Cleanup Program (VCP) list of November 18, 2020, was reviewed for facilities within $\frac{1}{2}$ mile of the subject property.

Our review of the list finds no sites on the VCP list within ½ mile of the subject property.

5.18 State and Tribal Brownfield Sites

The Utah DERR Brownfield list and EPA Cleanups in my Community website of March 15, 2021, were reviewed for sites within ½ mile of the subject property.

Our review of the list finds no Brownfield sites listed within ½ mile of the subject property.

5.19 Rocky Mountain Power

Rocky Mountain Power (formerly Utah Power and Light) was contacted in regards to transformers in the area. They indicate that all high hazard transformers (>500 ppm of PCBs) in the State of Utah have been replaced with PCB "free" transformers with less than one ppm PCBs.

6.0 INTERVIEWS

Interviews were conducted with key site managers, past property owners and occupants in order to obtain information indicating recognized environmental conditions in connection with the property.

Priscilla Blackburn, a site manager with Forsey's Cleaners, was interviewed on site. She indicated that she has worked for Forsey's for about 6 years and has managed the subject property for about 7 months. She indicated that dry cleaning has not been performed on the site for about 40 years. She was not aware of underground tanks, hazardous materials or environmental concerns on the property.

Dan Forsey, the property owner, was interviewed by telephone. He indicated that his family has owned the subject property for 34 years. The property was previously owned by Jim Patterson who operated a dry-cleaning business at the site for approximately 2 to 3 years after buying the business from Mr. Meyer who operated Meyer's Dry Cleaning at the site. An old dry-cleaning machine was present in the building when Mr. Forsey purchased the property. The machine was subsequently disassembled and removed. No dry cleaning chemicals were present in the machine or on the property at that time. Mr. Forsey indicated he removed some asphalt paving to provide for construction of the existing concrete pavement leading to the north (secondary) entrance to the building. The soil beneath the removed asphalt was reportedly stained, possibly indicating a release of dry-cleaning chemical. Mr. Forsey indicated there are no underground or above-ground

storage tanks on the property. No fires, floods, spills or mold have been observed. He was not aware of environmental conditions on the property other than the possibility of a previous release of dry-cleaning chemicals by previous property owners.

Lynsey Mahoskey with the Ogden City Fire Department researched the fire department records and did not find records of hazardous material calls, spills or fires on the subject property.

7.0 DATA GAPS/DEVIATIONS

Data gaps are the lack of or inability to obtain information required by ASTM E-1527-13 despite good faith efforts by AGEC's environmental professional to gather such information. Data gaps and deviations encountered during the preparation of this report were limited to an uncompleted user questionnaire.

8.0 FINDINGS

Based on historical aerial photographs, Polk city directories, Sanborn Fire Insurance maps, tax appraisal cards and interviews, a house at 856 East 25th Street was built on the subject property by 1906 and was converted into the East Side Nursing Home by the mid 1950s. The house/nursing home was removed by 1961 and replaced with the existing laundry facility at 856 East 25th Street. The building was occupied by Norge Cleaning Village/Meyer's Norge Village from the 1960s to the late 1980s. The north wing of the building was added in the late 1960s/early 1970s. In the late 1980s, the business name changed to Forsey's Norge self serve laundry and then Forsey's Laundry and Cleaning Village, 4-C's Wash Basin and Four Seasons Laundromat. We understand that dry cleaning has not been performed on site since about 1987.

The subject property is occupied by a one-story, 4,100-square-foot, masonry-block commercial building with a flat composite roof at 856 East 25th Street. The building was occupied by Forsey (4-C) Laundry and Cleaners, a retail laundry business. Interior finishes generally consist of painted drywall and painted masonry block. Floor coverings consist of vinyl tile over concrete and exposed concrete, except the north storage room, which is carpeted. The room on the north end of the building is being used to store commercial washer and dryer parts, ducting and miscellaneous items. Various cleaning and lubricating chemicals and containers reportedly

containing used oil are located on a shelving unit on the east side of the room. The ceiling in the northeast portion of the room has some water damage. A maintenance area is located along the east wall of the building, behind the east bank of washing machines. Floor and roof drains located in the maintenance area are reportedly connected to the municipal sewer system. An office/drive-thru service area is located on the south end of the building. The center portion of the building contains the main washing/drying room. Washing and drying machines are located along the east, north and west sides of the room with an island of machines in the center portion. A mechanical room containing a gas-fired boiler and furnace are in the northwest portion of the main washing room. The historical dry-cleaning equipment was stored in this room. Floor drains in the mechanical room and behind the west bank of laundry machines are reportedly connected to the municipal sewer system. Two restrooms are located in the west-center portion of the building.

An asphalt-paved parking lot extend south, west and northwest of the building. No storm drain inlets were observed in the parking areas. The building is connected to municipal water, sewer and natural gas utilities, presumably from 25th Street to the south.

Due to the age of the building (1961), it may have been constructed with asbestos-containing building materials, lead-based paints, mercury-containing light switches or fluorescent light ballasts with PCBs. Vegetation on the property is limited to lawn landscaping on the south property edge.

During our site visit, no evidence of significantly stained soils or stressed vegetation was observed. No evidence of hazardous materials, above-ground or underground storage tanks, unidentified vessels, odors or pools of liquid were observed on site. Monitoring wells previously installed by AGEC are located in the parking areas. A 55-gallon drum of purge water from the monitoring wells is temporarily stored on the north side of the building. Injection wells, gas and oil extraction wells, irrigation wells, and water-withdrawal wells were not observed on site. Overhead power lines extend across the north and south sides of the property. A pole-mounted electrical transformer is near the northwest corner of the property. The transformer did not appear to be leaking and should not contain poly-chlorinated biphenyls (PCBs). A trash dumpster is north of the building

Government agency inquiry indicates there are no NPL or RCRA CORRACTS sites within 1 mile of the property. There are no delisted NPL, RCRA Non-CORRACTS TSD, SEMS/CERCLIS, landfills, VCP or Brownfield sites within ½ mile of the property. There is one SEMS-Archive/CERCLIS-

NFRAP site within ½ mile of the property at Hoffmans Modern Dry Cleaning at 2475 Monroe Blvd., approximately 500 feet to the west and down gradient.

There are 11 sites listed on the LUST list within ½ mile of the property being investigated including two sites adjacent to the subject property. Our review of the list finds two UST sites adjacent to the subject property. The registered tanks adjacent to the property have been removed.

There is one RCRA Generator on the subject property and one generator adjacent to the property. Meyers Cleaning Village at 856 25th Street on the subject property was a small quantity generator prior to the dry-cleaning operation moving off site by 1987. The current Forsey laundry does not perform dry cleaning on site. The Rite Aid at 851 24th Street to the north and not up gradient was a conditionally exempt small quantity generator of hazardous waste including discarded or expired consumer products and pharmaceuticals.

There are no NRC sites listed on or adjacent to the subject property. There is one DERR Incident site adjacent to the property being investigated at Rite Aid at 851 24th Street. In May 2008 a complaint was made from a patron of Rite-Aid about burning of the throat and strong odors. Subsequent air sampling by the Weber-Morgan Health Department indicated that ammonia was present inside and out of the building. There are no institutional controls or engineering controls on the subject property.

9.0 OPINION

Tetrachloroethylene (PCE) and trichloroethylene (TCE) have been identified in the soil, groundwater and soil vapor on the subject property during environmental investigations by AGEC in 2020 and 2021. Soil samples obtained during the investigations have detected concentrations of 2-Butanone also known as methyl ethyl ketone (MEK) PCE and TCE. The detected concentrations of MEK, TCE and PCE were below the respective residential RSL values. The only VOCs detected above the residential VISL in the soil gas were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and trichloroethene (TCE) in VP-1 and VP-2. The concentrations of PCE were significantly higher in the two subslab samples than the exterior PRT samples.

PCE was detected above the laboratory method detection limits in the groundwater samples from MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15 and MW-17. The analytical test results indicate that the groundwater samples from 12 of the 20 wells contain concentrations of PCE above the November 2020 EPA Maximum Contaminant Level (MCL). The only other compound detected above the laboratory method detection limits was TCE in MW-3, MW-10, MW-12, MW-15 and MW-17 which were above the TCE MCL of 0.005 mg/L. The plumes of PCE and TCE extend off site at least 200 feet to the west. The detected subsurface contamination associated with the dry cleaner is a recognized environmental condition and a potential vapor encroachment condition.

The nearby SEMS-Archive, LUST and UST facilities are unlikely to have impacted the subject property due to the distances, groundwater gradients and remedial activities performed at these sites. Aside from the dry cleaner on the property, a reconnaissance and data base search of properties in the vicinity of the subject property finds no evidence of facilities or environmental conditions that have adversely impacted the subject property or present a potential vapor encroachment condition.

10.0 CONCLUSIONS

We have performed a Phase 1 Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E 1527-13 of the property described in the Property Location and Legal Description section of this report. Exceptions to, or deletions from, this practice are described in the Data Gaps/Deviations section of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property with the following exception:

A dry cleaner was located on the subject property at 856 East 25th Street from the 1960s to the 1980s. Dry cleaners commonly used chlorinated solvents that can impact the subsurface soils and groundwater if they are released to the environment. Evidence of dry-cleaning solvents have been detected in the soil, soil vapor and groundwater on the subject property, at concentrations exceeding the residential VISL for soil gas and MCL for the groundwater. Additional work to help delineate the extent of the groundwater contamination is ongoing. The former dry-cleaning business and associated subsurface contamination on the property is a recognized environmental condition and a potential vapor encroachment condition.

11.0 LIMITATIONS

This Phase 1 Environmental Site Assessment has been prepared in general conformance with the scope and limitations of ASTM E 1527-13 and generally accepted practices in this area for the use of the client. The conclusions of the report are based on the information obtained from site visits, previous site assessments, a review of government records, aerial photographs and interviews as described in the report. Except as described in this report, we have made no independent investigation as to the accuracy or completeness of the information derived from these sources. We have assumed that the information provided by these sources is accurate and complete.

The findings and conclusions presented in this report are intended only for the purpose, site specific location and client as indicated. AAI's must be conducted or updated within one year prior to property acquisition. Specific activities required by the final AAI rule that must be performed or updated within 180 days before acquisition of the property include an onsite visual inspection, review of government records, interviews with previous and current site owners, and searches for environmental cleanup liens. No sampling or chemical analysis of structural materials, soil, water or air was performed unless specifically stated. An evaluation of the subsurface soil and groundwater conditions was not performed and therefore is not a definitive study of the potential for contamination on the subject property.

Applied Geotechnical Engineering Consultants, Inc. does not represent that the site contains no hazardous materials or other latent conditions beyond that observed during the site assessment. Changes in the environmental conditions on this property may occur with the passage of time due to natural processes or human activities on or adjacent to this property. In addition, changes in applicable or appropriate standards and regulations may occur, whether the result of legislation, from the broadening of knowledge, or from other reasons. Therefore, the findings and conclusions in this report may be partially or completely invalid due to changes outside of our control. Our findings and conclusions are not presented as scientific certainties, but rather as professional opinions based on the limited data obtained by the assessment.

Applied Geotechnical Engineering Consultants, Inc. has no present or contemplated future ownership interest or financial interest in the real estate that is the subject of this Phase 1 Environmental Site Assessment report; and Applied Geotechnical Engineering Consultants, Inc. has no personal interest with respect to the subject matter of the Phase 1 Environmental Site

Assessment report or the parties involved and Applied Geotechnical Engineering Consultants, Inc. has no relationship with the property or the owners thereof which would prevent an independent analysis of the environmental or other conditions of the property.

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.

Prepared by Thomas R. Atkinson, REPA

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.

Reviewed by Douglas R. Hawkes, P.E., P.G.

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

THOMAS R. ATKINSON





PROJECT RESPONSIBILITY: Project Manager, Environmental Services

As the AGEC Environmental Services Manager, Mr. Atkinson will be responsible for environmental site assessments and environmental sampling in support of AGEC investigations. He will be responsible to complete assigned projects on time and within budget.

EDUCATION: B.S. Geography, Minor, Geology, Northern Arizona University, 1987.

OSHA Hazardous Waste Training Program - 40 hours, 1989-current.

ASTM Environmental Site Assessment Course, 1996.

Utah Groundwater and Soil Sampler (GS-1083), 1997-current. Utah Certified UST Consultant (CC-0231), 2010-current.

NREP Registered Environmental Property Assessor, 2000-current.

State of Nevada Certified Environmental Manager (EM-1711), 2000-current.

PROFESSIONAL EXPERIENCE:

ENVIRONMENTAL PROFESSIONAL - Applied Geotechnical Engineering Consultants, Inc. Sandy, Utah, 1994 to Present

Completed over 1,900 Phase I and Phase II Environmental Site Assessments for apartment complexes, commercial strip malls, office complexes, industrial and manufacturing facilities, communication towers, and an entire downtown block of Salt Lake City. Prepared Utah Voluntary Cleanup Program sampling/analysis plans and conducted investigations of soil contamination for projects in Salt Lake and Summit Counties. Performed numerous subsurface soil and groundwater sampling investigations for gas stations, schools, subdivisions, commercial buildings and utility projects.

SPECIAL PROJECTS MANAGER - Applied Geotechnical Engineering Consultants, Inc. Sandy, Utah, 1995 to Present

Managed construction quality control personnel for large earthwork construction projects by interviewing, training and supervising technicians, writing and reviewing daily construction reports and writing final construction reports. Major projects supervised included the Micron facility in Lehi, Utah; Juniper Tailing Expansion at the Santa Fe - Twin Creeks Mine; and Landfill Cell 7 and Pond Closure 3 at the Safety-Kleen Grassy Mountain Facility.



DOUGLAS R. HAWKES, P.E., P.G.



Senior Engineering Geologist/Geotechnical Engineer Manager, Engineering Services Group (Sandy)

PROJECT RESPONSIBILITY: Project/Review Engineer

As Engineering Services Manager, Mr. Hawkes, P.E., P.G. is responsible for most of the engineers in the Sandy office of AGEC geotechnical/geological engineering consultation projects. In his capacity as Project/Review Engineer, he is responsible for geotechnical/geologic engineering aspects of assigned projects.

EDUCATION: Bachelor of Science in Engineering Geology.

Brigham Young University, April 1981

PROFESSIONAL REGISTRATION: Professional Engineer, Utah

Professional Geologist, Wyoming Professional Geologist, Utah

PROFESSIONAL EXPERIENCE:

ENGINEERING GEOLOGIST/GEOTECHNICAL ENGINEER - Applied Geotechnical Engineering Consultants, Inc. Sandy, Utah - 1991 to present.

Supervise the field exploration, laboratory testing, field observation and testing, engineering analysis and report preparation of geologic and geotechnical investigations. Performs the review of environmental site assessments. Projects include the evaluation of earthquake related hazards, landslide and slope stability, debris flow, rockfall and other geologic hazards in areas of proposed development. Geotechnical studies have been completed for commercial, retail and residential buildings, roads, highways, utilities, bridges, dams and other development projects.

ENGINEERING GEOLOGIST - Chen-Northern, Inc., Salt Lake City, Utah - 1981 to 1991

Supervised the field exploration, laboratory testing, field engineering and report preparation for the engineering geology section. Supervised drilling operations at the Salt Lake City office. Projects included an investigation for tunnel and large rock cuts through Provo Canyon, evaluation of rock cuts for various highway projects, geologic hazard studies for a major pipeline and residential and commercial developments, landslide studies, slope stability and earth embankment studies.

PROFESSIONAL SOCIETIES:

Association of Engineering Geologists



REFERENCES

Blackburn, Priscilla, site manager with Forsey's Cleaners, interview, March 10, 2021.

Feth, J.H., Barker, D.A., Moore, L.G., Brown, R.J., and Veirs, C.E., 1966, Lake Bonneville: geology and hydrology of the Weber Delta District, including Ogden, Utah: United States Geological Survey Professional Paper 518, 76 p.

Forsey, Dan, property owner representative, telephone interview, March 11, 2021.

Lincoln Environmental Services, Phase 1 Environmental Site Assessment, Wheelwright Lumber, 2459 Quincy Avenue, Ogden, Utah, April 11, 2005.

Mahoskey, Lynsey, Ogden Fire Department, telephone and email interview, March 18, 2021.

Phillips, Craig, Utah Power and Light Company, November 6, 1995.

Polks Salt Lake City Directories, 1925 to 2017.

Sanborn Fire Insurance Maps, Ogden, Utah, sheet 47, 1906, 1950, 1956 and 1963.

United States Coast Guard National Response Center (NRC) list, March 15, 2021. http://nrc.useg.mil/

United States Department of Agriculture, Aerial Photography of various dates, Aerial Photograph Field Office, Salt Lake City, Utah.

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm

United States Department of Agriculture, Soil Survey of Davis-Weber Area, Utah, July 1968.

United States Environmental Protection Agency, Cleanups in My Community, March 15, 2021. https://www.epa.gov/cleanups/cleanups-my-community

United States Environmental Protection Agency, Superfund Enterprise Management System (SEMS) and SEMS Archive Site Listings, March 15, 2021. https://www.epa.gov/enviro/sems-search

United States Environmental Protection Agency, Published Institutional Controls, March 15, 2021. http://www.epa.gov/ictssw07/public/export/regionalReport/REGION8.HTM

United States Environmental Protection Agency, Utah National Priorities List (NPL) and Delisted NPL sites, August 31, 2020. https://www.epa.gov/region8/superfund-sites-region-8

United States Environmental Protection Agency, Resource Conservation and Recovery Act (RCRA) CORRACTS, TSD and RCRA Generator Facility Lists, January 30, 2021. http://www.epa.gov/enviro/facts/rcrainfo/search.html United States Federal Emergency Management Agency (FEMA) Flood Hazard Map - http://msc.fema.gov/portal

United States Fish and Wildlife Service National Wetlands Inventory Mapping Utility - http://www.fws.gov/wetlands/Data/Mapper.html

United States Geological Survey, Ogden quadrangle, Weber County, Utah, 1955, 1969, 1975, 1986, 1992 & 1998.

Utah Automated Geographical Reference Center, Aerial Photography of various dates, http://gis.utah.gov/data/aerial-photography/.

Utah Department of Environmental Quality, DEQ Interactive Map. http://enviro.deq.utah.gov/

Utah Department of Environmental Quality, Division of Environmental Response and Remediation, Brownfield Sites, March 15, 2021.

http://www.deq.utah.gov/ProgramsServices/programs/cercla/brownfields/index.htm

Utah Department of Environmental Quality, Division of Environmental Response and Remediation, Environmental Covenants, March 15, 2021.

http://eqedocs.utah.gov/SpecialSrchs.aspx?SSName = DERR CERCLA EC

Utah Department of Environmental Quality, Division of Environmental Response and Remediation, Incident Notification Database, March 15, 2021.

http://eqspillsps.deq.utah.gov/Search Public.aspx

Utah Department of Environmental Quality, Division of Environmental Response and Remediation, Leaking Underground Storage Tank (LUST) Site Listing, March 15, 2021.

 $\frac{https://deq.utah.gov/environmental-response-and-remediation/leaking-underground-storage-tan}{ks-lust-program}$

Utah Department of Environmental Quality, Division of Environmental Response and Remediation, Underground Storage Tank (UST) Site Listing, March 15, 2021.

 $\frac{https://deq.utah.gov/environmental-response-and-remediation/leaking-underground-storage-tanks-lust-program}{ks-lust-program}$

Utah Department of Environmental Quality, Division of Environmental Response and Remediation, Voluntary Cleanup Program sites, November 18, 2020.

https://deq.utah.gov/environmental-response-and-remediation/cercla/voluntary-cleanup-program

Utah Department of Environmental Quality, Division of Solid and Hazardous Waste, RCRA Hazardous Waste Sites, March 1, 2021.

 $\frac{https://deq.utah.gov/waste-management-and-radiation-control/hazardous-waste-management-p}{rogram}$

Utah Department of Environmental Quality, Division of Solid and Hazardous Waste, Utah Landfill Inventory and Utah Closed Landfill Lists, 2019.

https://deq.utah.gov/waste-management-and-radiation-control/solid-waste-facilities-permits-and-permitting

https://deq.utah.gov/legacy/programs/waste-management-radiation-control/solid-waste/disposa l-facilities.htm



Utah Geological Survey Aerial Imagery Collection. http://geology.utah.gov/databases/imagery/

Yonkee, Adolph and Mike Lowe; Geologic Map of the Ogden 7.5' Quadrangle, Weber and Davis Counties, Utah; Utah Geological Survey Map 200, 2004.

FIGURES



From USDA Aerial Photograph 2-22 September 16, 1937



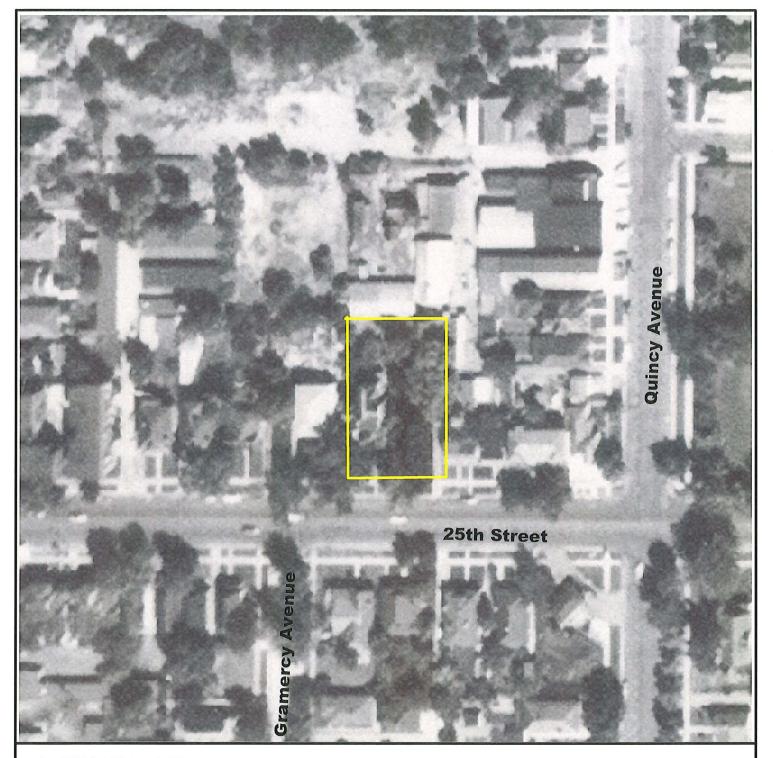
Approximate Scale 1 inch = 200 feet



From USDA Aerial Photograph 2B-179 August 10, 1946



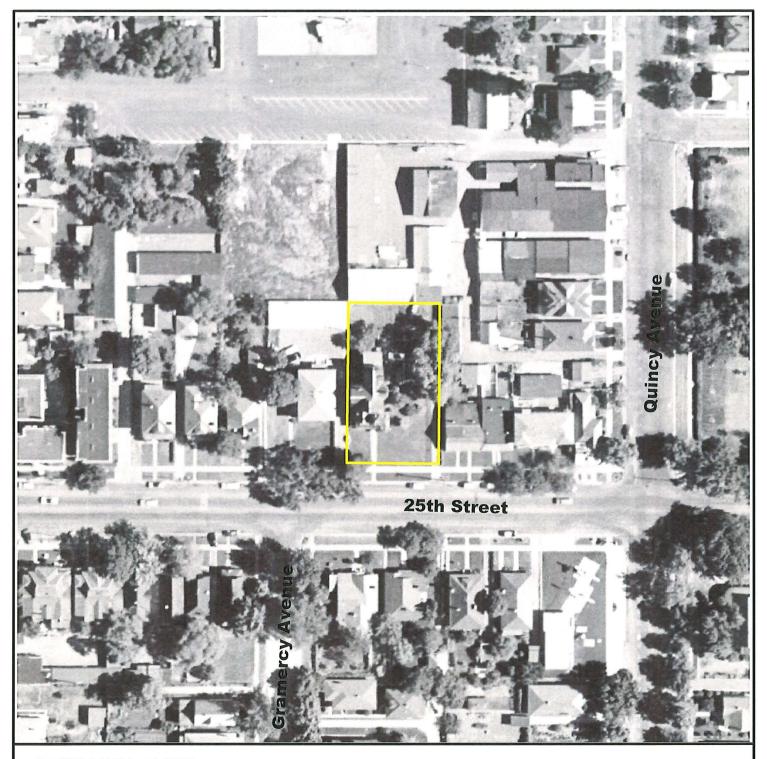
Approximate Scale 1 inch = 100 feet



From USDA Aerial Photograph 2K-78 August 30, 1952



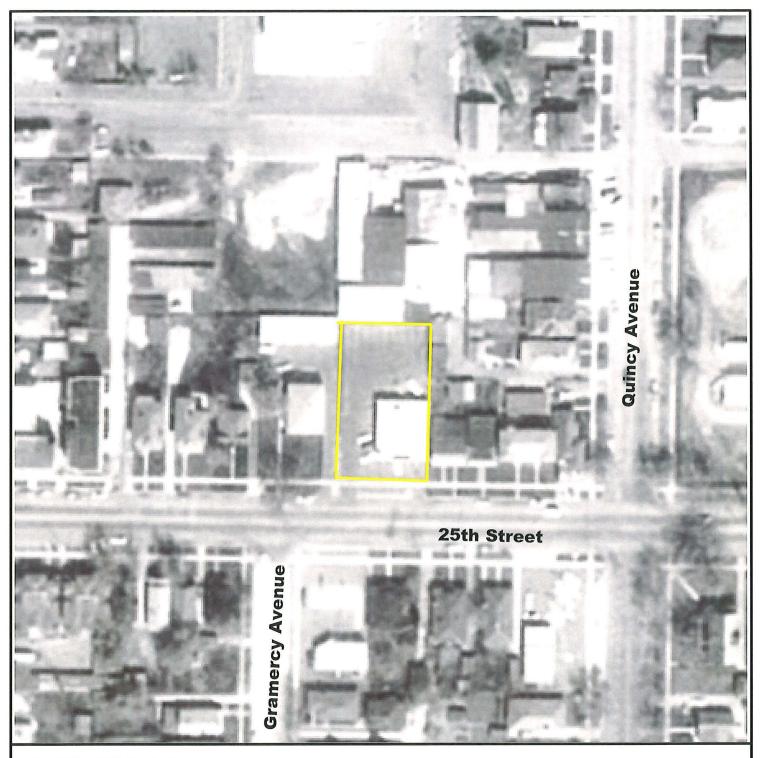
Approximate Scale 1 inch = 100 feet



From USDA Aerial Photograph 10V-173 May 26, 1958



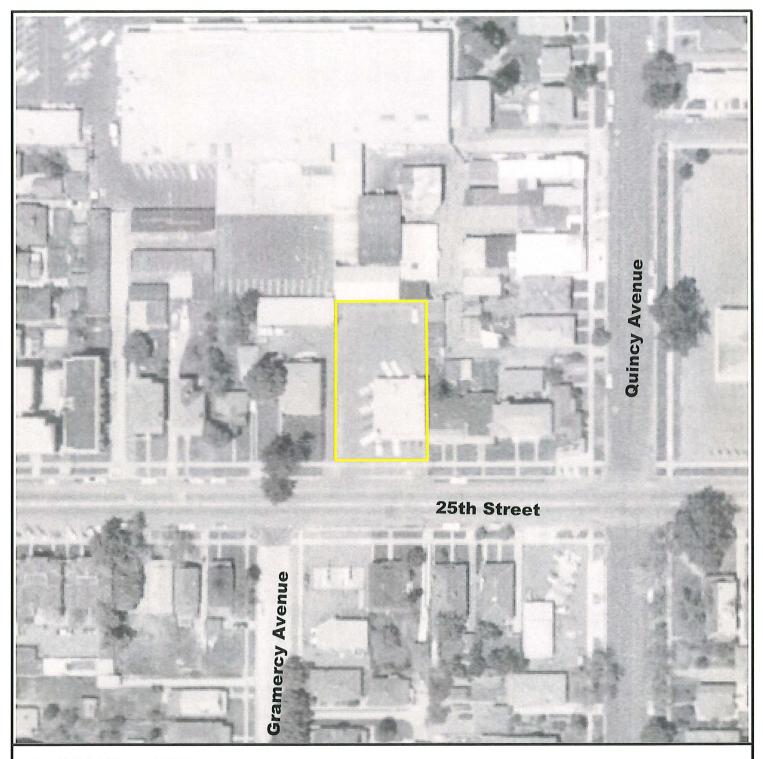
Approximate Scale 1 inch = 100 feet



From USGS Aerial Photograph 4-60 April 13, 1962



Approximate Scale 1 inch = 100 feet



From USDA Aerial Photograph 3FF-71 May 29, 1965



Approximate Scale 1 inch = 100 feet



From USDA Aerial Photograph 1MM-169 October 10, 1971



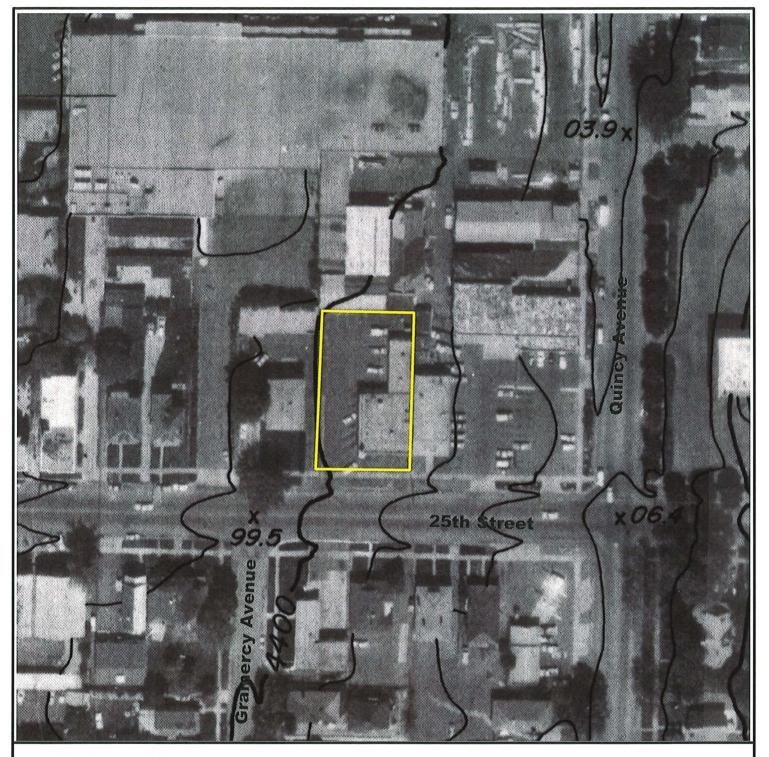
Approximate Scale 1 inch = 100 feet



From USDA Aerial Photograph 178-44 August 24, 1978



Approximate Scale 1 inch = 200 feet



From Weber County Aerial Photograph 28-6N-1W 1985



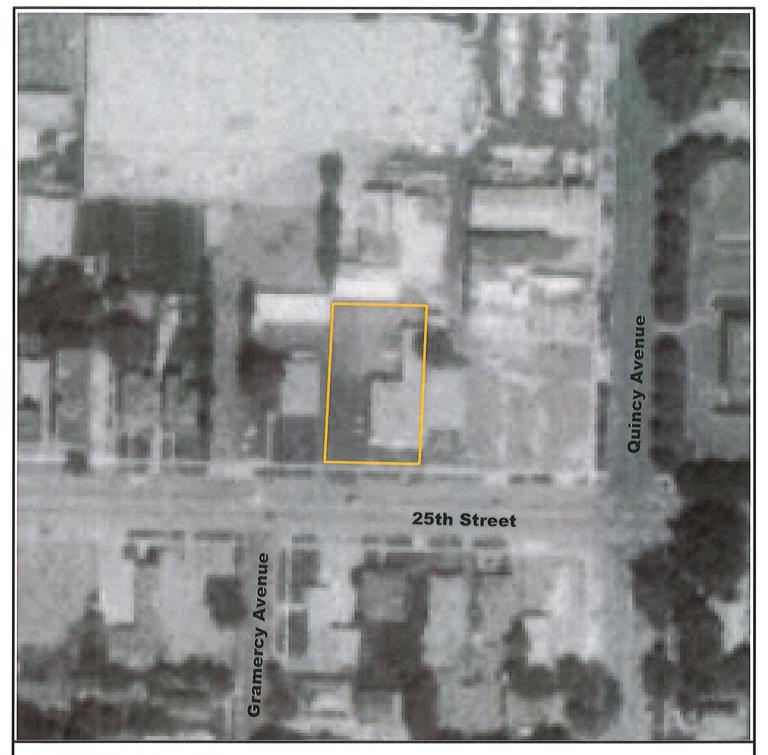
Approximate Scale 1 inch = 100 feet



From USGS NAPP CIR Aerial Photograph 305-13 July 24, 1987



Approximate Scale 1 inch = 200 feet



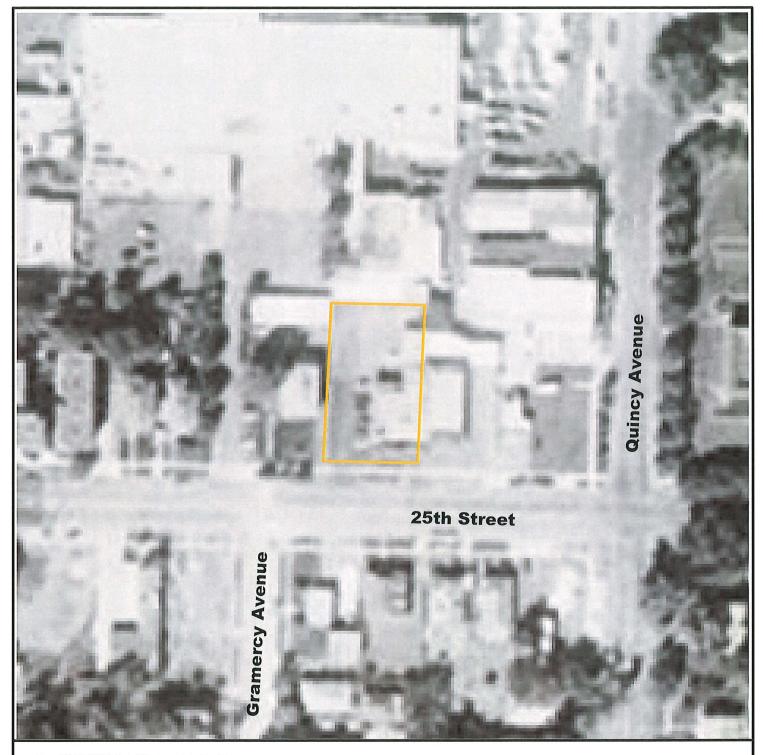
From USGS NAPP Aerial Photograph 5903-261 August 14, 1993



Approximate Scale 1 inch = 100 feet FORSEY CLEANERS & LAUNDRY 856 EAST 25TH STREET OGDEN, UTAH

1210175

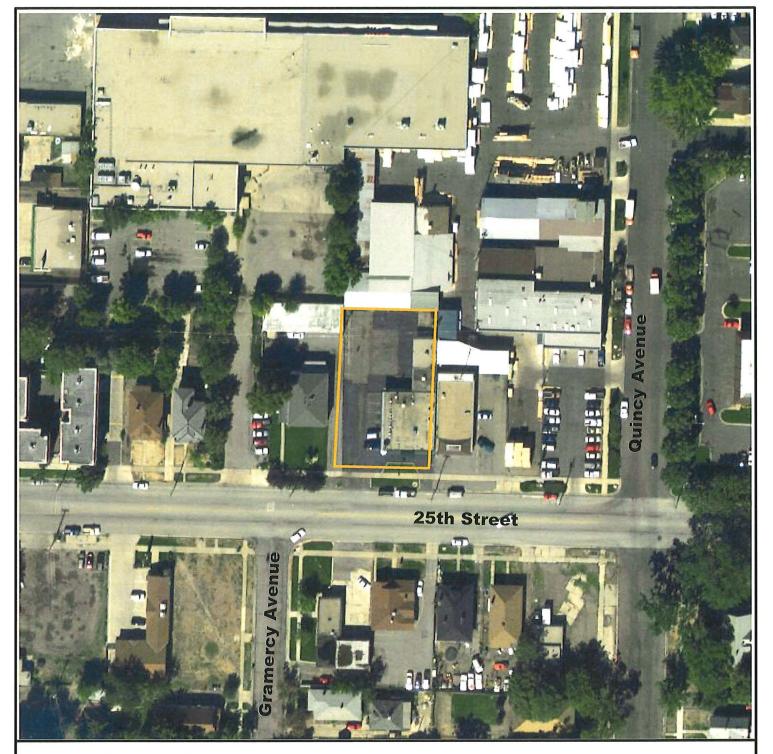




From USGS NAPP Aerial Photograph 10103-137 October 4, 1997



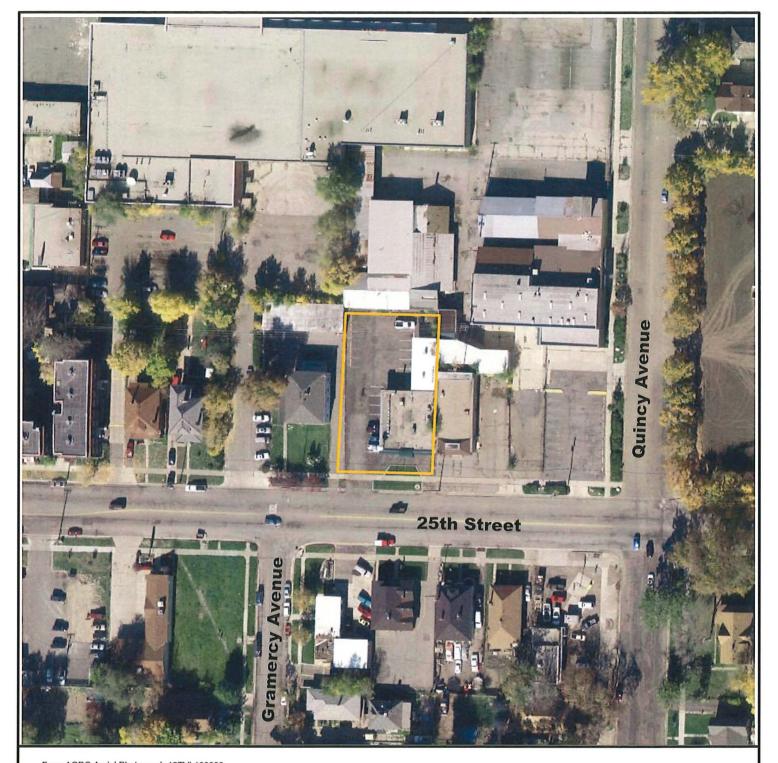
Approximate Scale 1 inch = 100 feet



From AGRC Aerial Photograph 12TVL185630 September 21, 2003



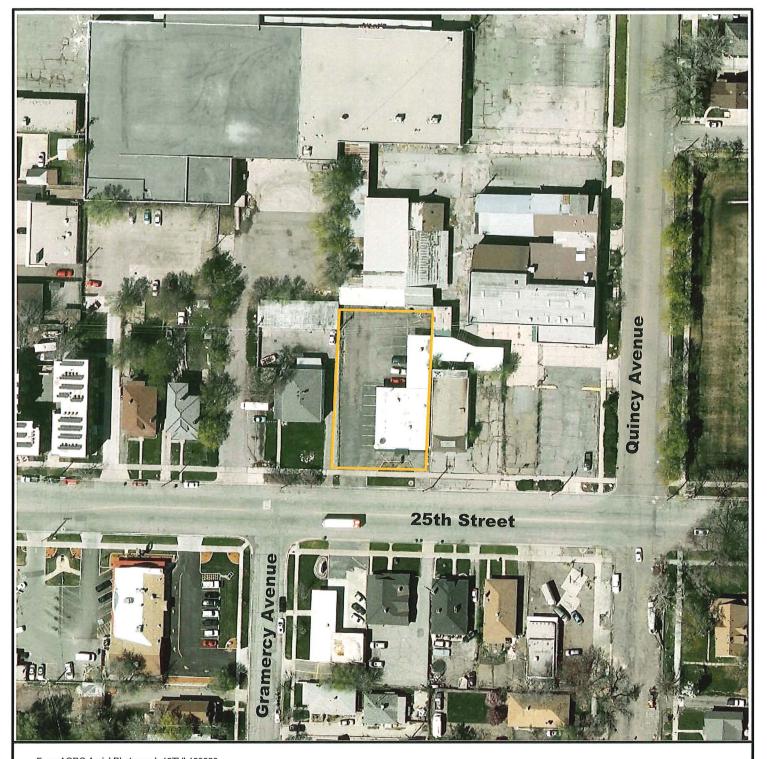
Approximate Scale 1 inch = 100 feet



From AGRC Aerial Photograph 12TVL160600 September 23, 2006



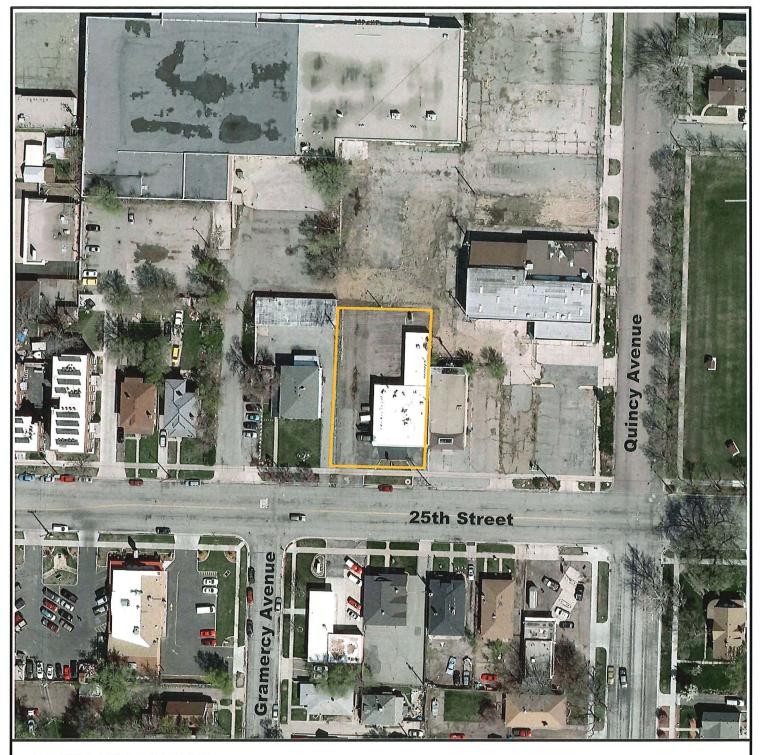
Approximate Scale 1 inch = 100 feet



From AGRC Aerial Photograph 12TVL180620 April 22, 2009



Approximate Scale 1 inch = 100 feet



From AGRC Aerial Photograph 12TVL180620 April 7, 2012



Approximate Scale 1 inch = 100 feet



From NearMap Aerial Photograph October 8, 2014



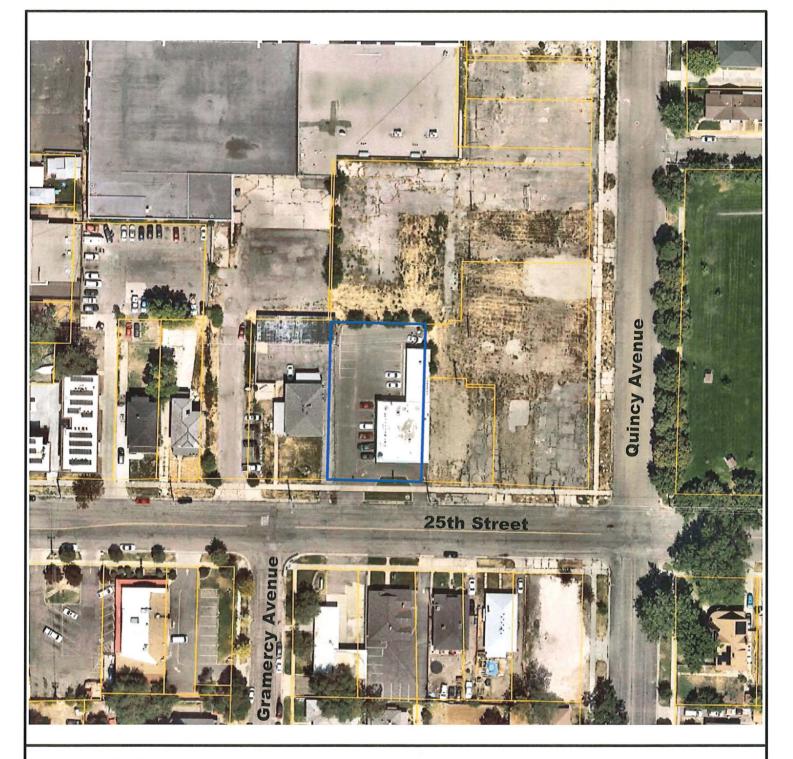
Approximate Scale 1 inch = 100 feet



From NearMap Aerial Photograph August 28, 2016



Approximate Scale 1 inch = 100 feet



From NearMap Aerial Photograph August 7, 2019



Approximate Scale 1 inch = 100 feet

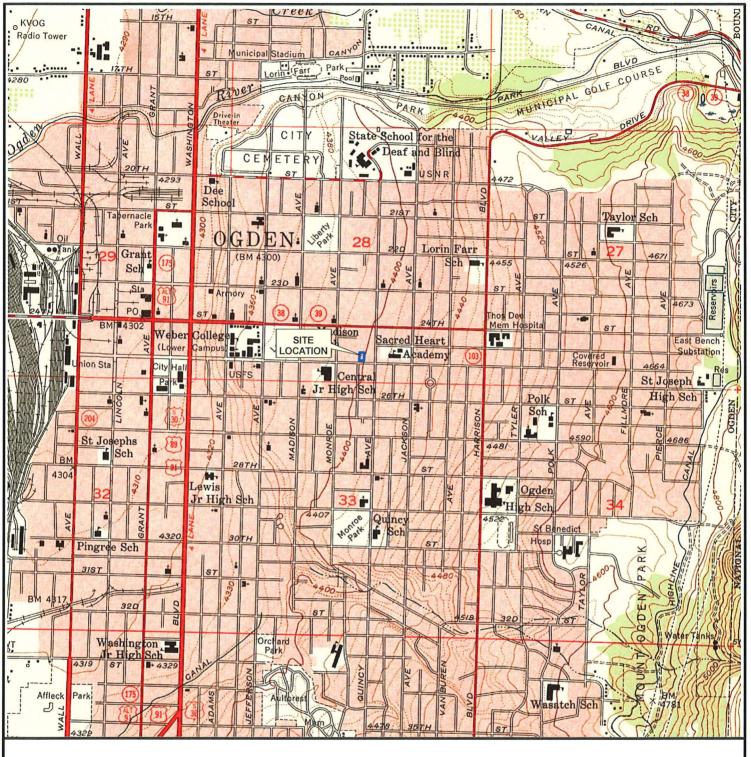


From NearMap Aerial Photograph September 11, 2020



Approximate Scale 1 inch = 100 feet FORSEY CLEANERS & LAUNDRY 856 EAST 25TH STREET OGDEN, UTAH

1210175



Section 28, T6N, R1W

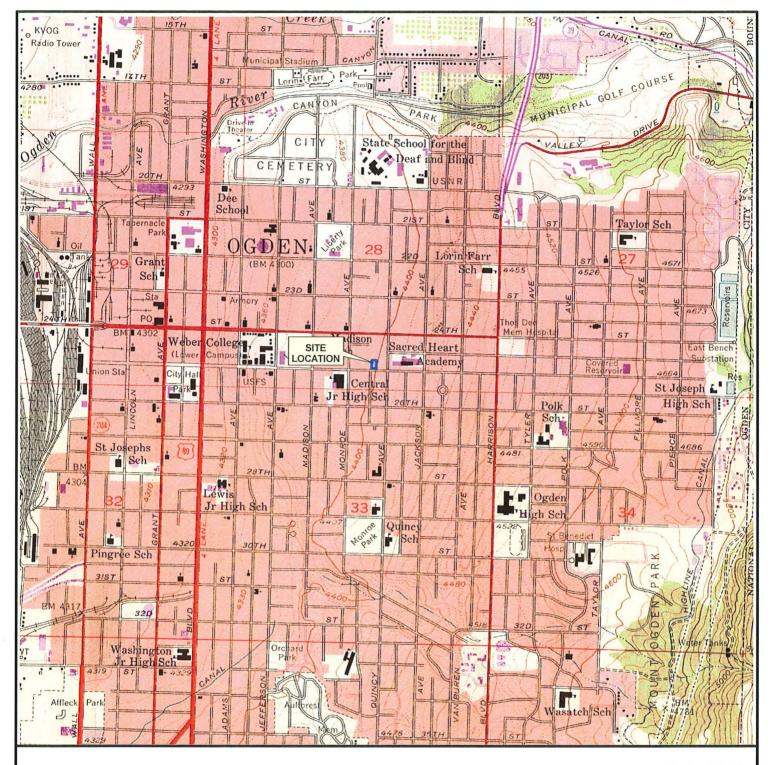
From USGS Ogden Quadrangle (1955)



Approximate Scale 1 inch = 2,000 feet FORSEY CLEANERS & LAUNDRY 856 EAST 25TH STREET OGDEN, UTAH

1210175

AFET



Section 28, T6N, R1W

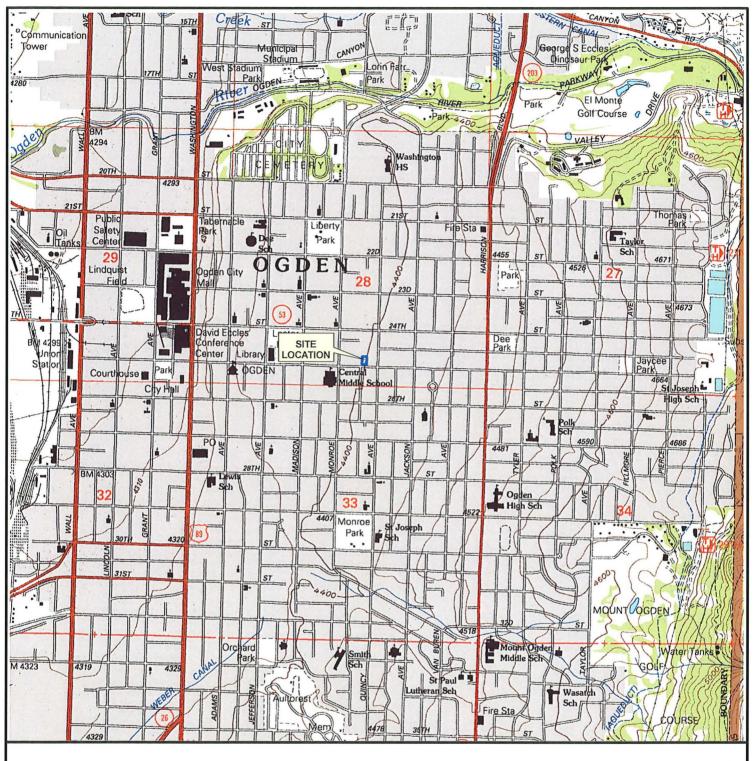
From USGS Ogden Quadrangle (1975)



Approximate Scale 1 inch = 2,000 feet FORSEY CLEANERS & LAUNDRY 856 EAST 25TH STREET OGDEN, UTAH

1210175

AFET



Section 28, T6N, R1W

From USGS Ogden Quadrangle (1998)



Approximate Scale 1 inch = 2,000 feet FORSEY CLEANERS & LAUNDRY 856 EAST 25TH STREET OGDEN, UTAH

1210175



ArcGIS Web Map



Figure 22

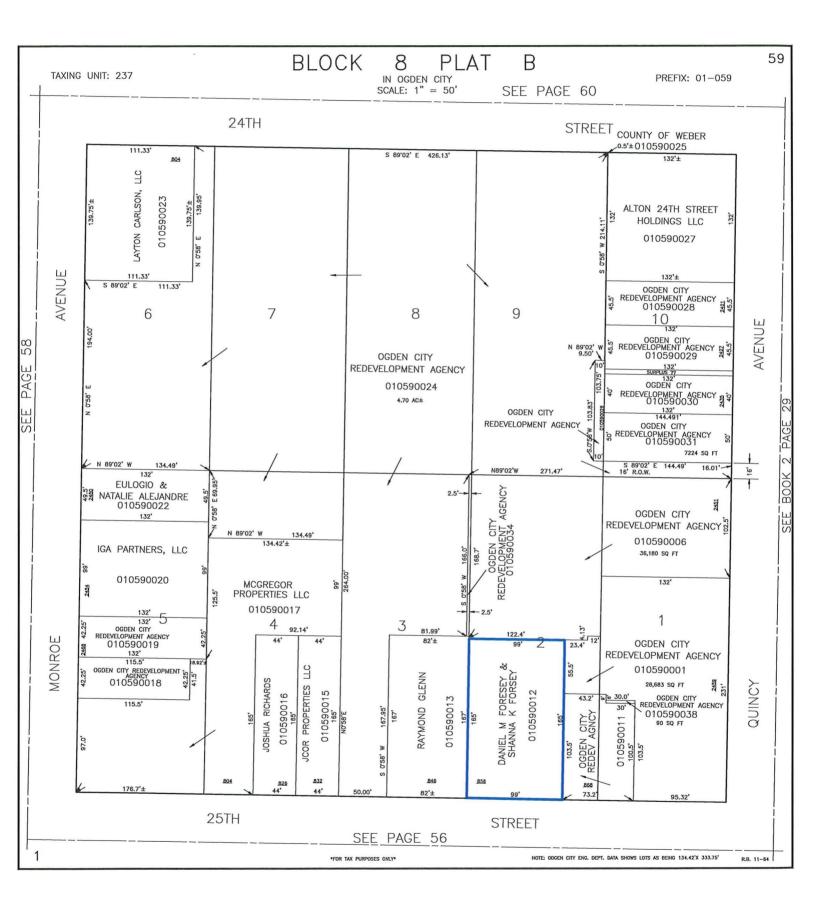
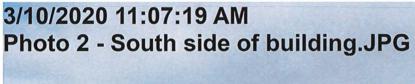


Figure 23

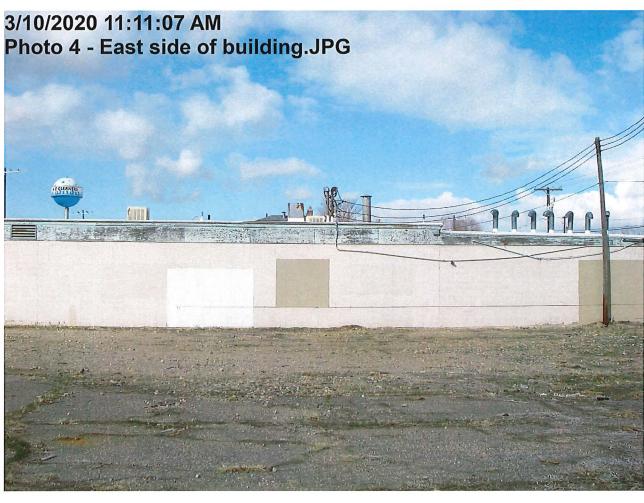
APPENDIX A PHOTOGRAPHS OF SITE

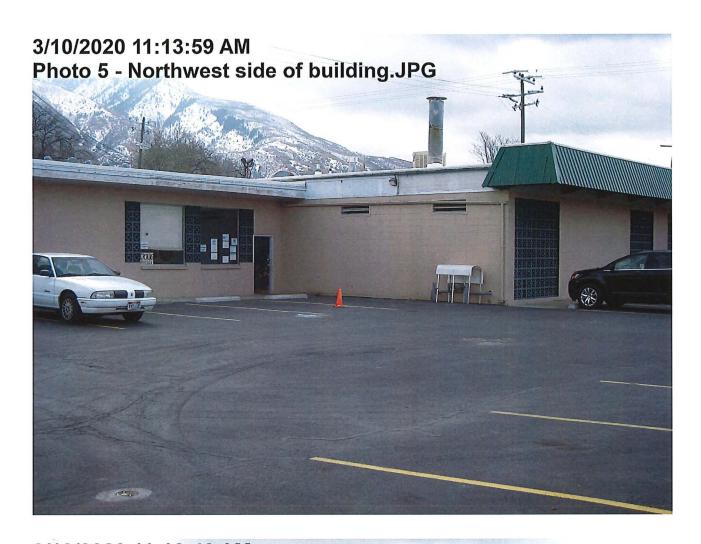




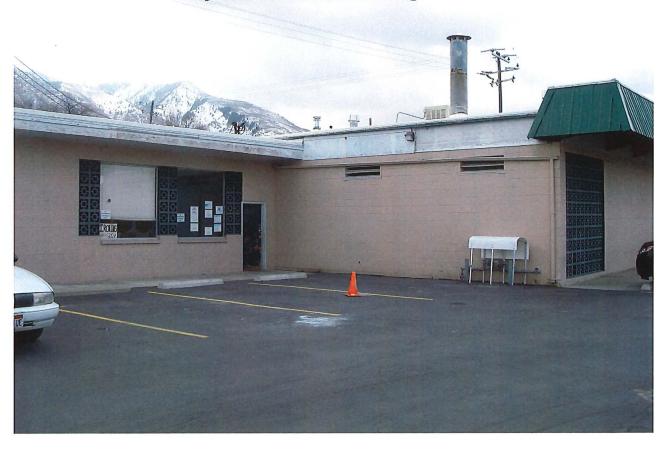


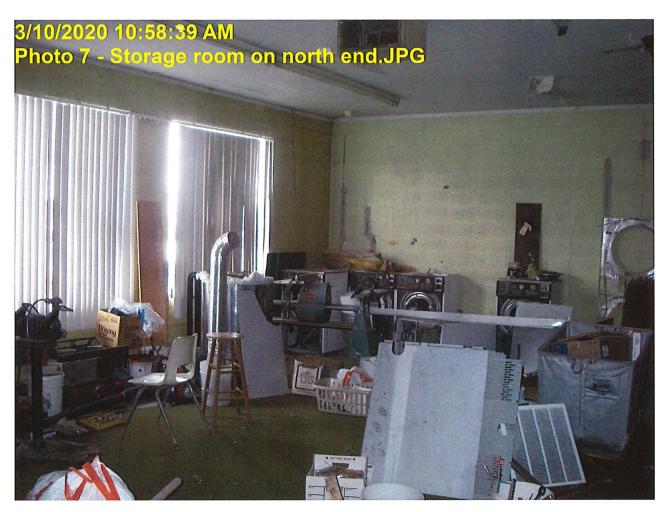


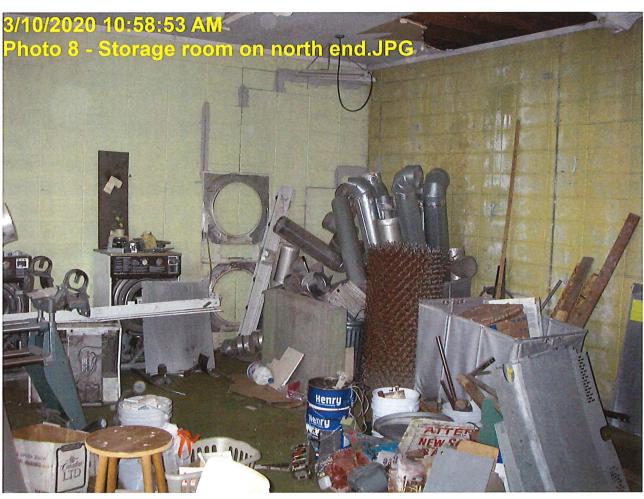


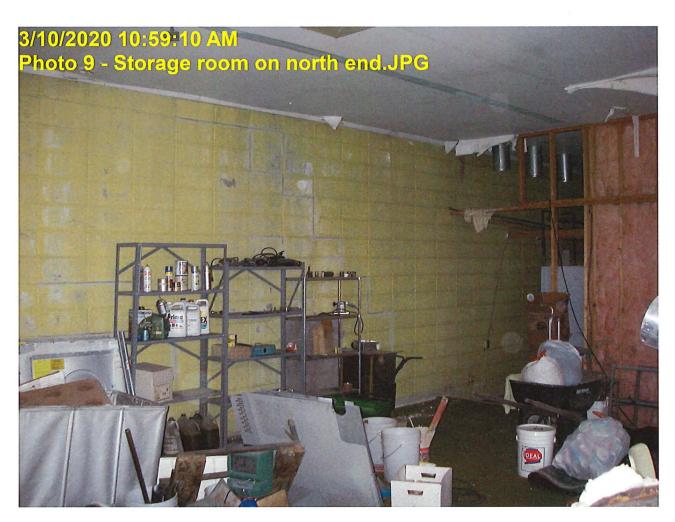


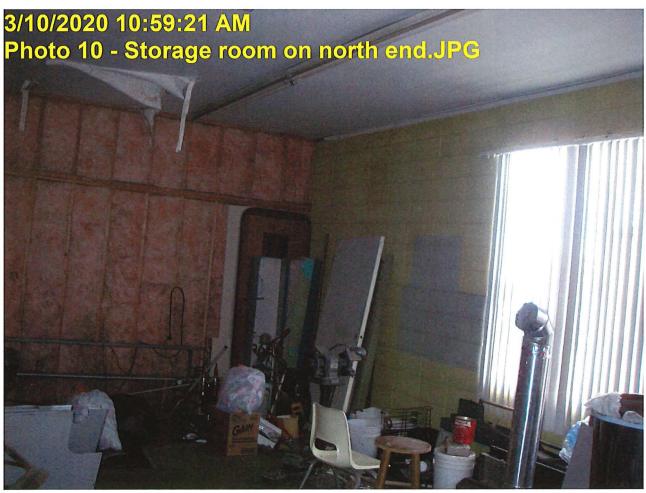
3/10/2020 11:16:42 AM
Photo 6 - Secondary entrance to building on northwest end.JPG

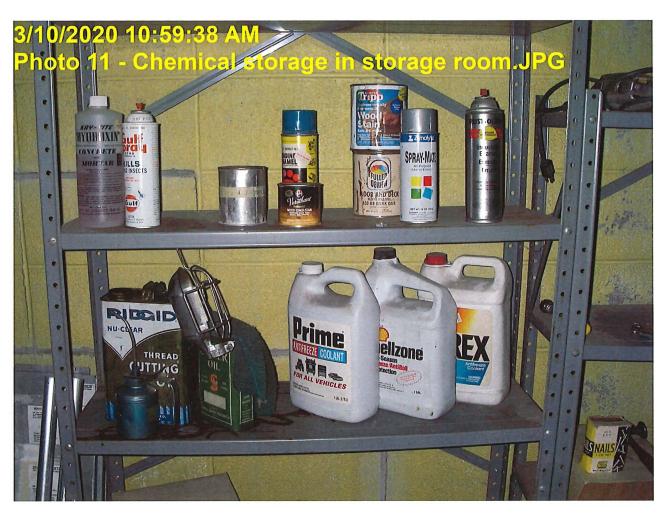


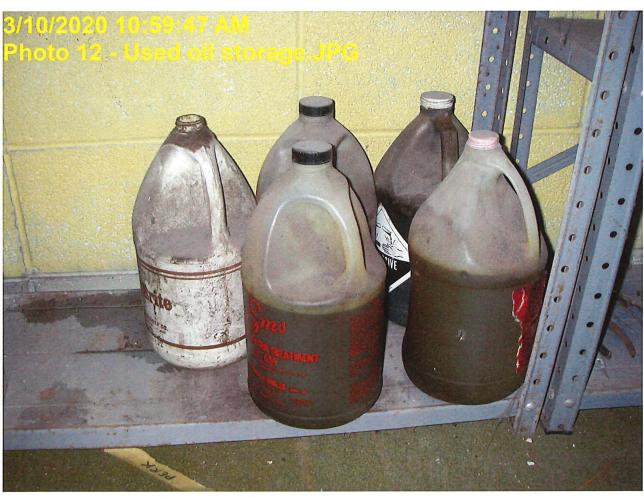


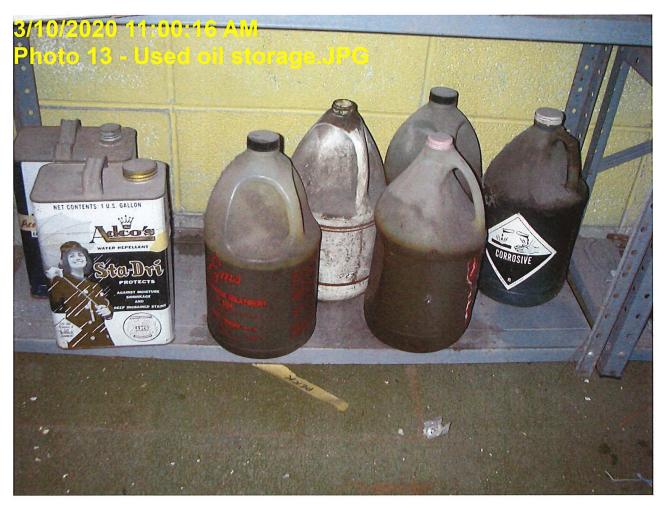


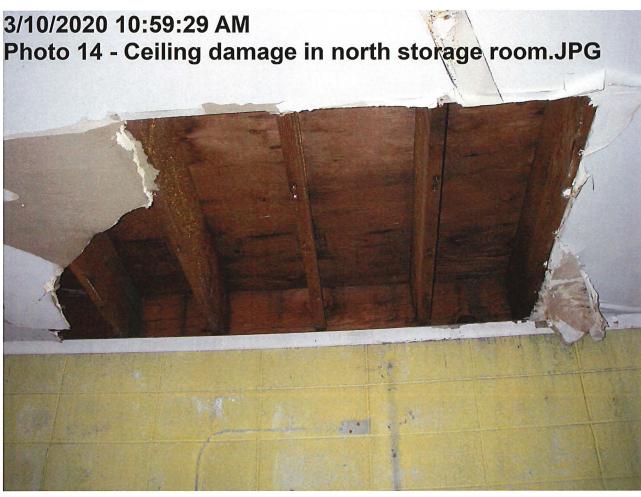


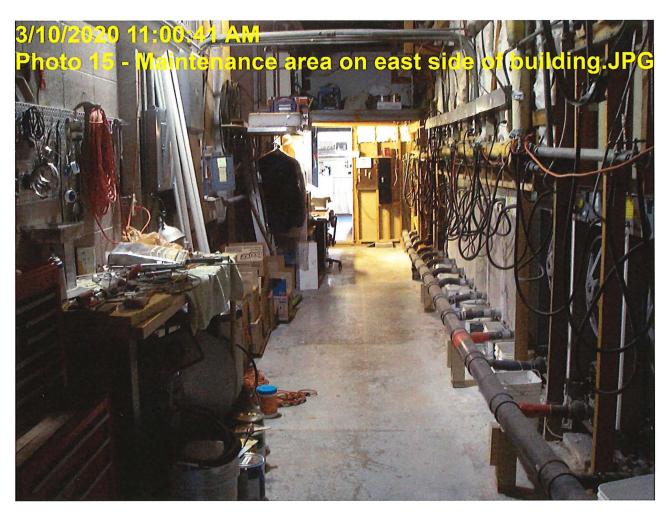


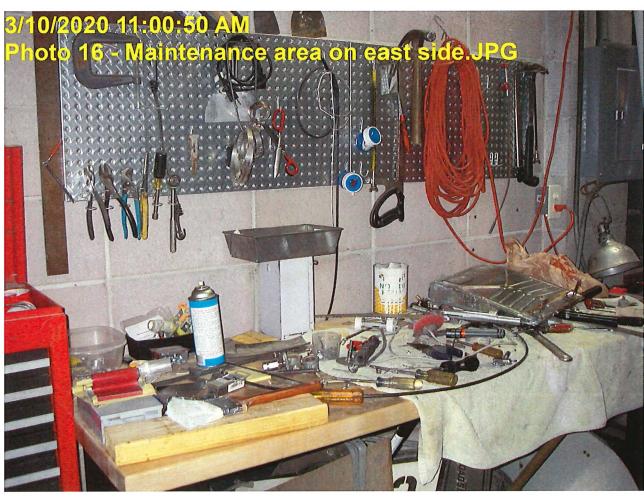




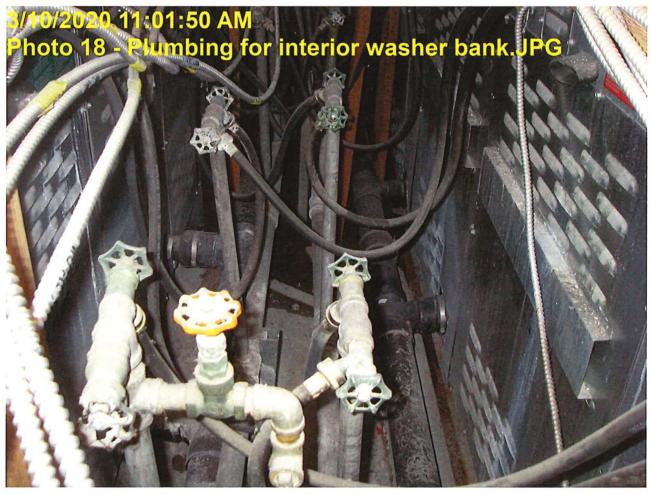


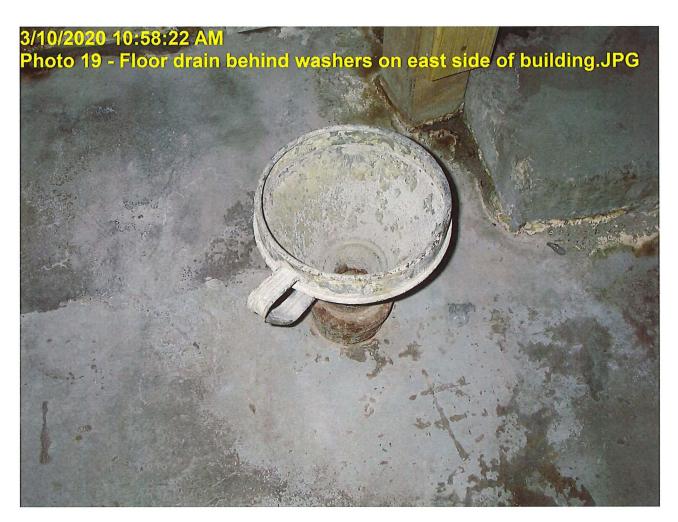




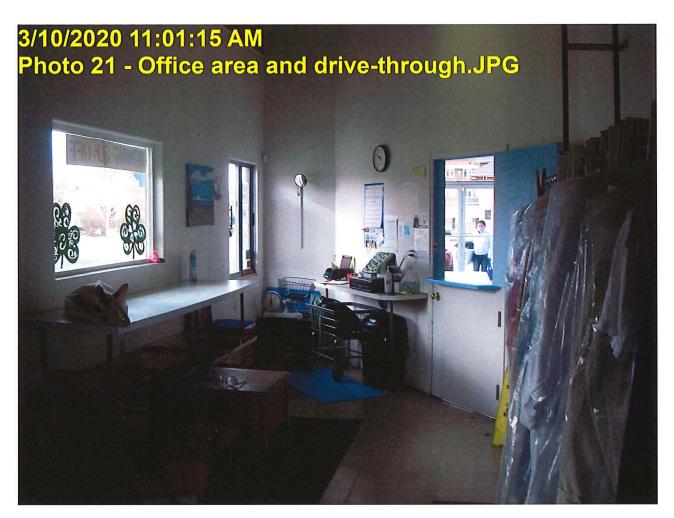
















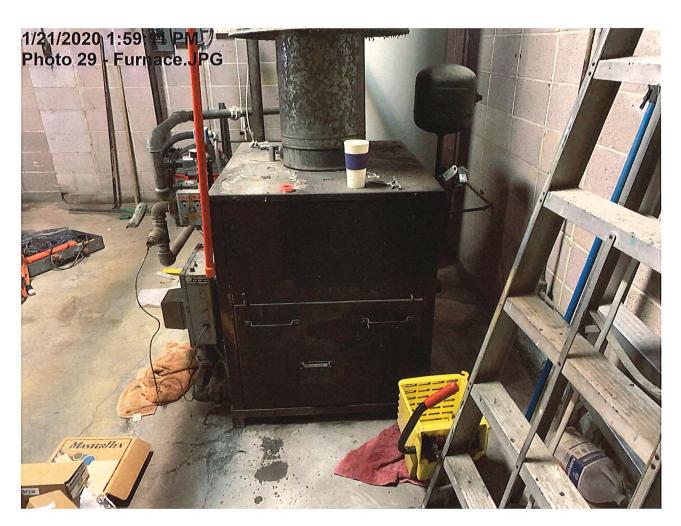




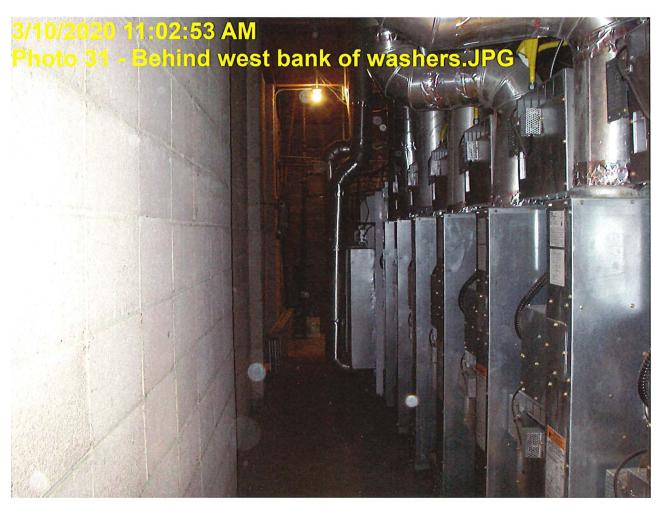


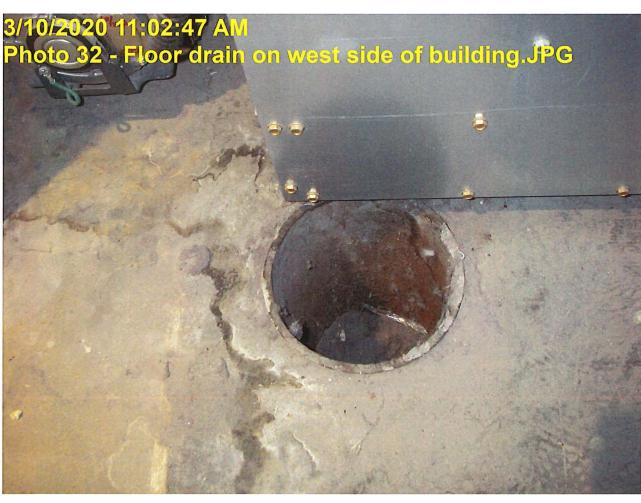


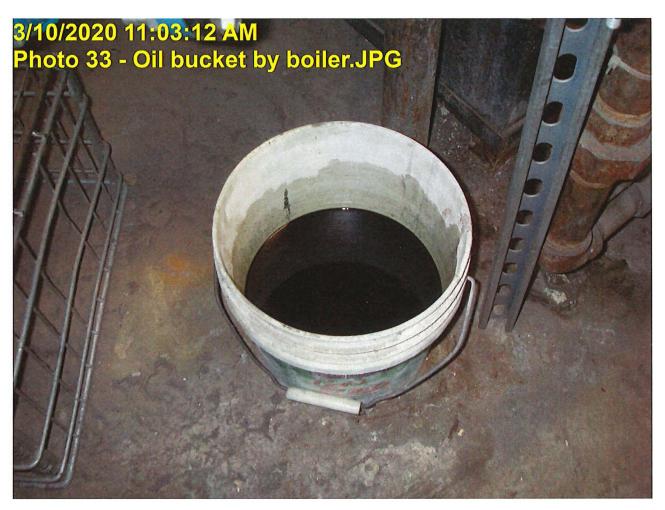










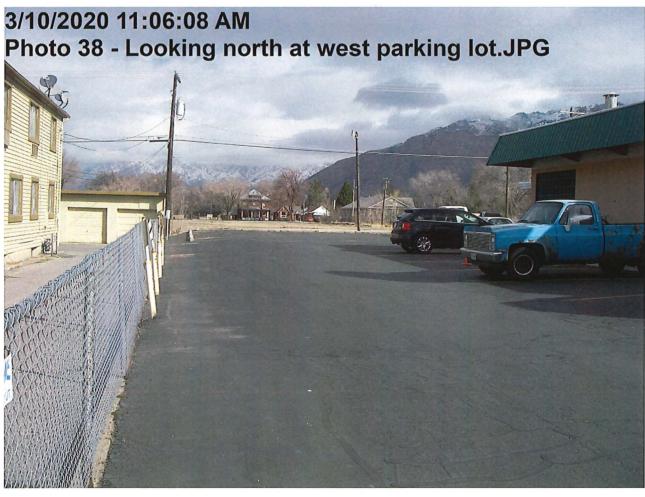










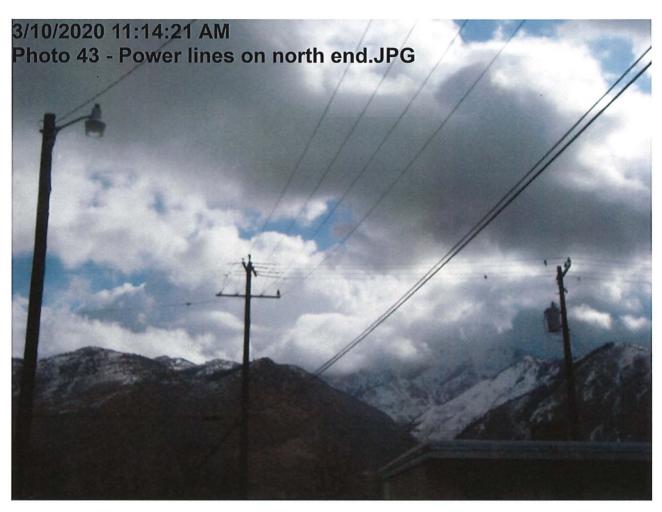


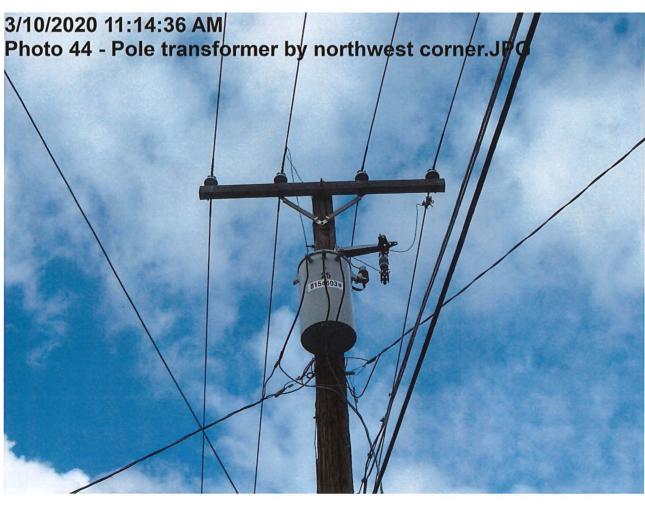




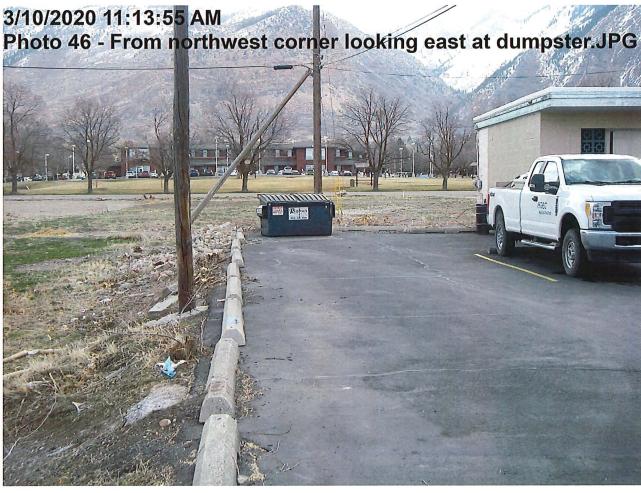












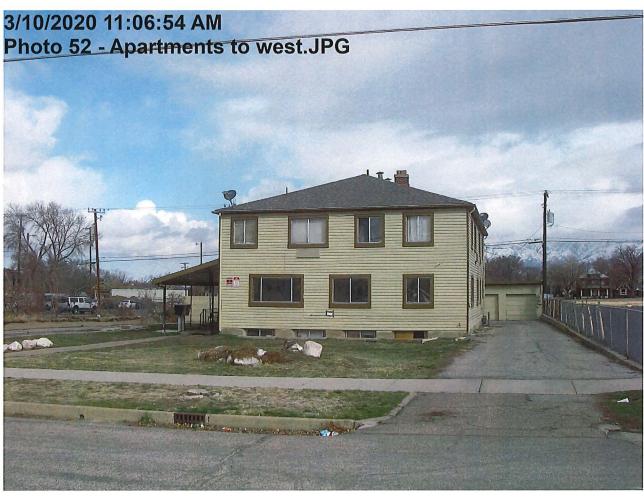


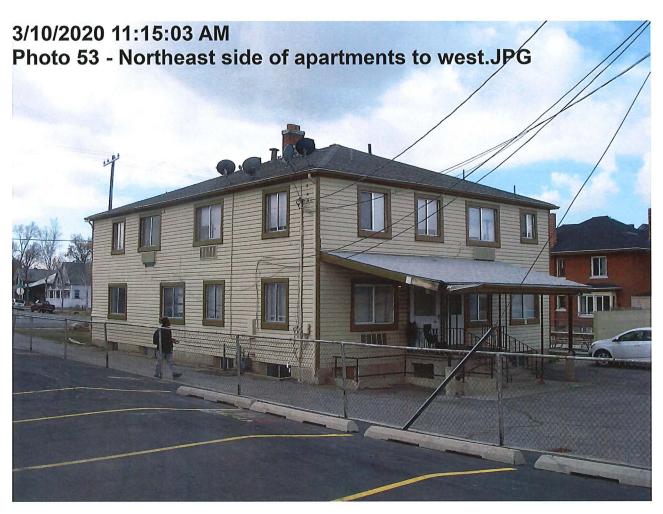
















3/10/2020 11:10:35 AM Photo 56 - Vacant lot to east.JPG



APPENDIX B USER QUESTIONNAIRE

AGEC Phase 1 ESA User Questionnaire

Site: Forsey Cleaners & Laundry parcel at 856 East 25th Street in Ogden, Utah

The most recent revision of the ASTM Standard Practice for Environmental Site Assessments (ASTM E 1527-13) has expanded the user's responsibilities in the preparation of the Phase I ESA report. By responding to the following questions, the user will help identify the possibility of recognized environmental conditions in connection with the subject property. Please respond to the questions to the best of your knowledge and return this questionnaire to AGEC so that we may include the information in the report.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user of the Phase I ESA must provide the following information (if available) to the environmental professional (AGEC). Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

- 1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Are you aware of any environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state or local laws? NO YES explain
- 2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any activity and land use restrictions, such as engineering controls, land use restrictions or institutional controls that are in place at the subject property and/or have been filed or recorded in a registry under federal, tribal, state or local law? NO YES explain
- 3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). As the user of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business. NO YES explain
- 4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? YES NO If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?
- 5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional (AGEC) to identify conditions indicative of releases or threatened releases?

 NO YES explain

For	examp	le:
	ONGIND	

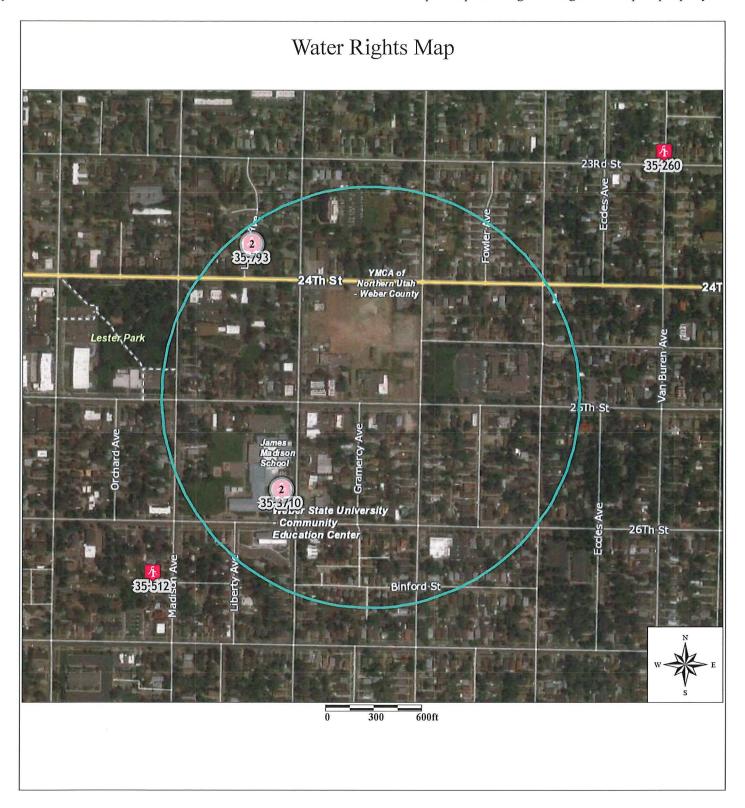
- A. Do you know the past uses of the property?
- B. Do you know of specific chemicals that are present or once present at the property?
- C. Do you know of spills or other chemical releases that have taken place at the property?
- D. Do you know of any environmental cleanups that have taken place at the property?
- 6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

 NO YES explain

Completed by:	
Printed name:	
Date:	

Please complete and return to Tom Atkinson at AGEC by fax (801) 566-6493, email (atkinson@agecinc.com) or mail.

APPENDIX C WATER RIGHTS POINTS OF DIVERSION



Services Agencies Search Utah.gov Q

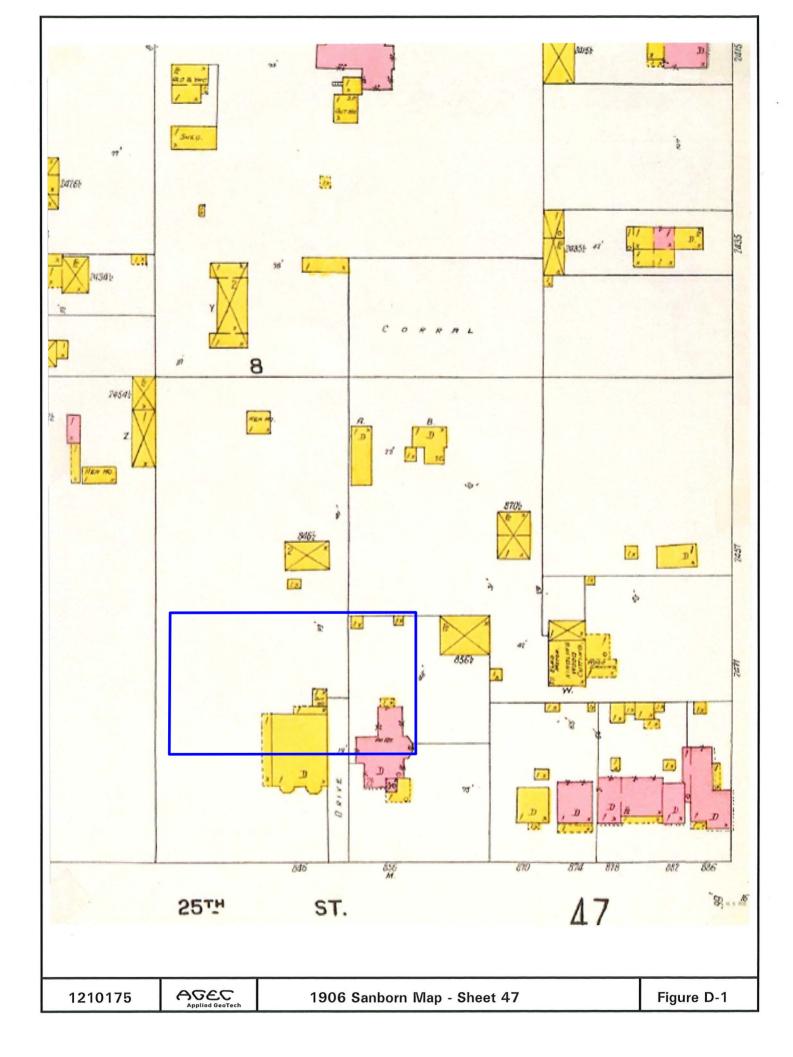
Search Radius: 1320 ft.

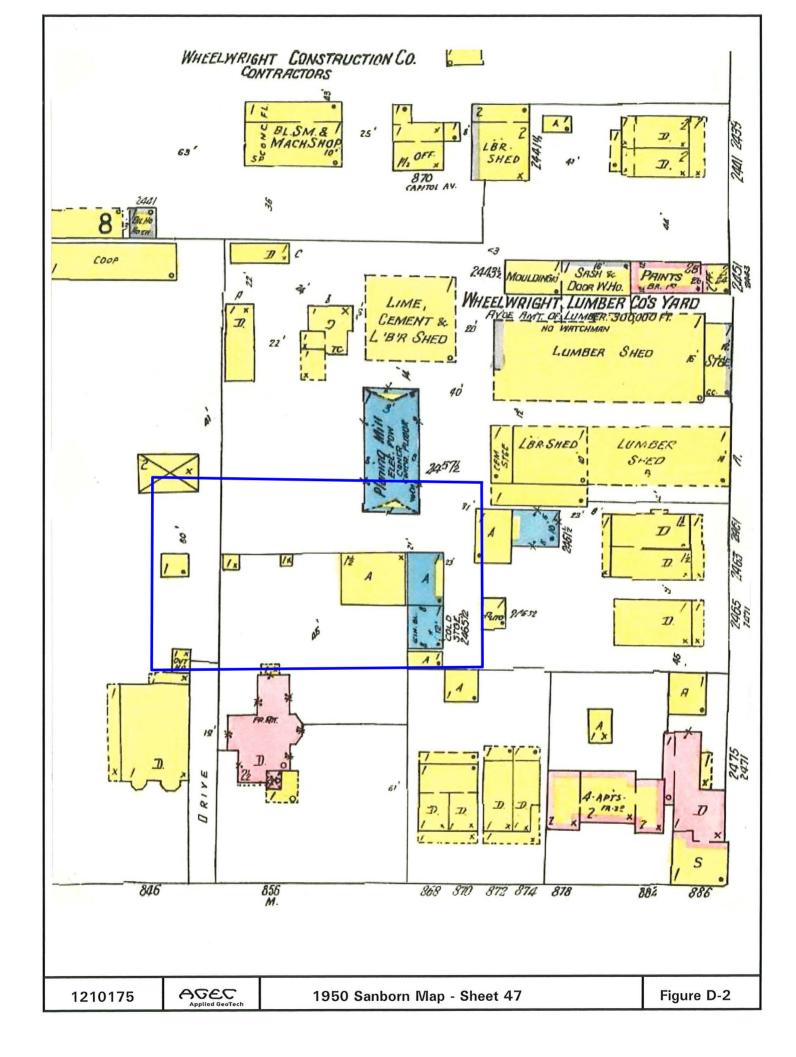
From the SE corner North 500 West 2600 section 28 township 6N range 1W SLbm

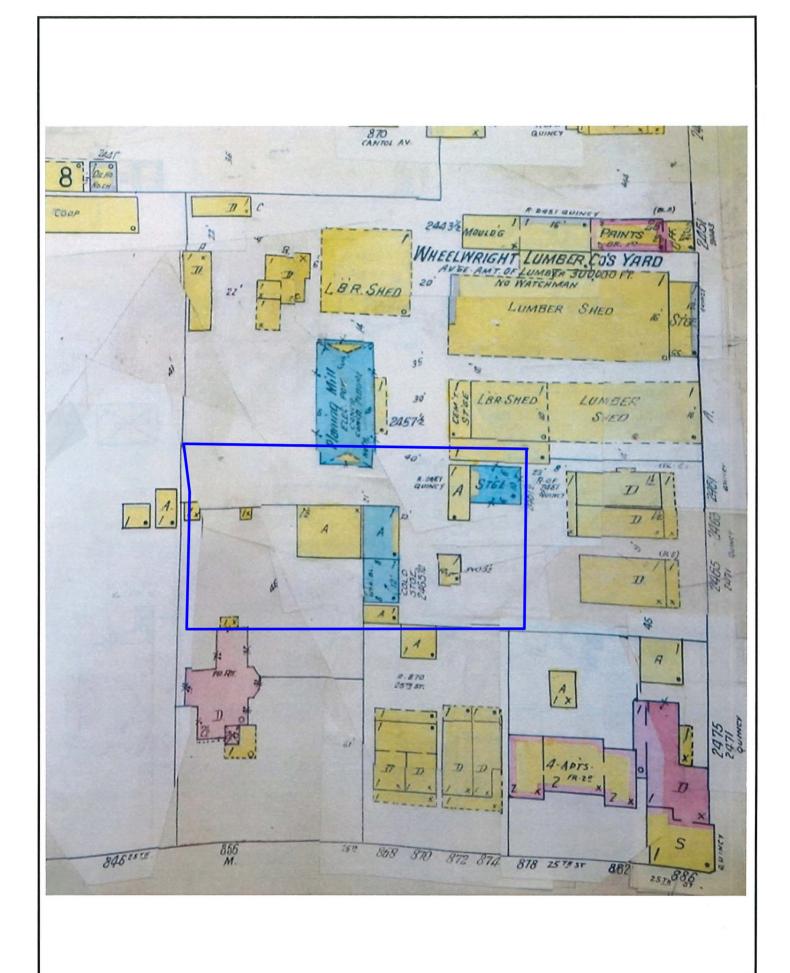
WR Number	Diversion Type	Well Log	Location	Status	Priority	Uses	CFS ACFT	Address	Owner Name
35-793	Underground		S1292 E1978 W4 28 6N 1W SL	P	19550527	D	0.015 0.000	748 24TH STREET	C. E. TILLOTSON
35-3710	Underground		S140 W475 N4 33 6N 1W SL	P	1933	Ι	0.011 0.000	UT	LYDIA BURROWS

Utah Division of Water Rights | 1594 West North Temple Suite 220, P.O. Box 146300, Salt Lake City, Utah 84114-6300 | 801-538-7240 | Natural Resources | Contact | Disclaimer | Privacy Policy | Accessibility Policy

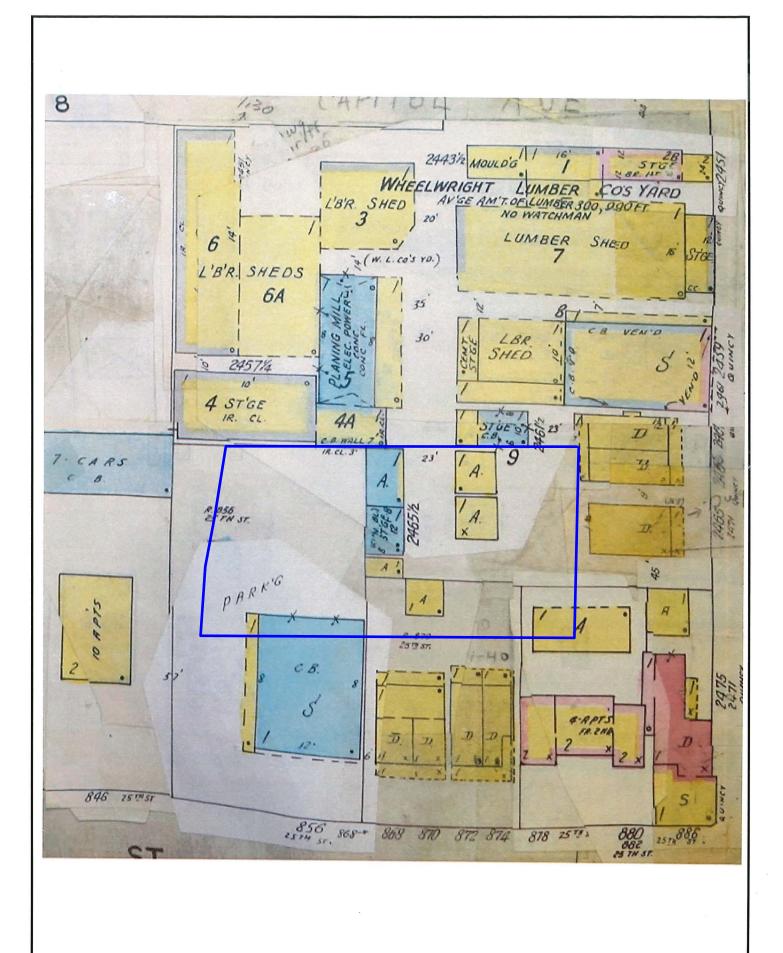
APPENDIX D SANBORN FIRE INSURANCE MAPS







1210175



1210175

APPENDIX E TAX ASSESSOR RECORDS

Weber County Home - Parcel Search - Interactive Maps

Print this page

Todays Date: 03/07/2021

Current Taxes Ownership Info

Tax History

Property Characteristics

Delinquent Taxes

<--Back to Search

Parcel #: 010590012

Building Characteristics

Property Type: Commercial

Built As Desc.: Laundromat

Stories: 1

Above Grade Square Feet: 4,100

0 Basement Square Feet:

Total Square Feet: 4,100

Basement Percent Complete: No Basement

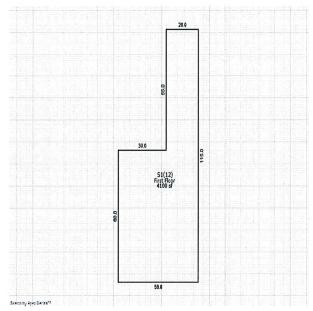
C **Building Class:**

Percent Complete: 100%

Year Built: 1961

Lot Size: 0.38 Acres

Building Sketches - Click on Image to enlarge



MAPS View in Geo-Gizmo

01-059 \ View PDF Updated: January 15 2021

APPENDIX F

MEYER CLEANING VILLAGE RCRA GENERATOR FILE & AGEC SAMPLING REPORTS



Suzanne Dandoy, M.D., M.P.H. Executive Director

November 4, 1986 538-6170

Meyers Cleaning Village PO Box 9609 Ogden, Utah 84401

Dear Ms. Moreno:

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown above.

Your EPA Identification Number is UTD076254960.

The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Biennial Reports that generators of hazardous waste must file with the State of Utah and other hazardous waste management reports and documents required under The Utah Solid and Hazardous Waste Act and the Utah Solid and Hazardous Waste Management Regulations (UHWMR).

If you have any questions please contact Lisa Jones at 538-6170.

Sincerely,

Dale D. Parker, Ph.D. Executive Secretary

Utah Solid and Hazardous Wastes

Committee

cc: Jon Minkoff, U.S. Environmental Protection Agency, Region VIII

	31	EF	 مرد	X	N	oti	fici	Uni atio	i.	1	Wash	vironr ningto	on, Do	C 204	460				cti	vit	y	this	ing Norn storn re is 10 of	otifica n.The requ f the	ation e info uired Reso	befor rmati by urce	struct re cor ion re law Cons	mplet iques (Sect	ting tion
1,799	以知识是	fficie	Marie Nie	经银格	1979	100	Mar Res					Ŝ₩. M	484.51	R Affic	in i	8 K 3			.T91/Y	i i inte	点框件	and	1 Rec	covery	y Act,	(南)	分解的	被批判	開新期
		1988	K. Silly	300	10 M	個際	A WAR	為家	(4)X	X.34.	(Layer	44	YAXH	Con	nmen	(S ϕ^{i}	域級	KANA A	類数	90°85				2 di	V	學的		學學	
C		recy-			A	ļ.,.	الموائد الملكوان	de person		giora		Paylor.								12 N		343							
					Nota			PA ID	300		il Militar	1.00		1/4/4/2 1/2/2/20		Appro	564		C		Recei			61	986) Miles			
C	11	X	10	TA	1000		1821	1	Num	C	1/2	16	TZE	√ C		Φρ, υ	VBG	19 to 30 mg.	Fred .	Selfar Selfar		tah	1	ate	Di	v. C	of.		
194	Van	10 0	fine	<u> </u>	atio	n.	A.		Y		12	ار). ا		: : : : : : : : : : : : : : : : : :							<u>ا</u>	lai			1374	116	外被	到版格	本等在
M	13	y	C2	R	1		0	4	4	A	IΥ	1	11/	G		V	1	1	Z	A	Cx	C	The state of the s	(2) (3) 	1.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- <u></u> - 	2 A A	Vay s 22.57 72. y
112	Inst	álla	tion	Ma	iling	ı Ad	dres	38																					
湖北	NS	1	$\frac{\overline{\lambda_i}\sqrt{a_i}}{\overline{\lambda_i}\sqrt{a_i}}$	(n)	Frank T	åkidis	48840	(girrer	(see and	ALL OF		1000	Str	eet c	or/P.O	Вох	i jed	Sall a		313)	$a_i^{ij}q^{ij'}$.		. 7 , 6 .					Park!	
3	P		0		B	٥	X		9	le	0	9											Special Specia					, .Va lar , .	
	30	14	Sill o	ent/\$pi	W/99	ggi sila	0/10/W	September 1	100	CI	y ör	Town		esalli)	AN THE		(244)	OV.		學等		\{\frac{1}{2}\}	S	tate		Z	IP Co	de	173
7C:	0	6	D	Œ	N		. :			ing.										1,3		2 1 2 2 2 2 3 2 3 2 4 3 2 3 2 5 3 2 3	U	1	8	1	1	0	
111	Loc	atic	n o	fln	stall	atio	n I									10													
10	100	W4/1	inger T	30927A	拉姆斯	姓"(d)y	<u> (47264)</u> T	garaga T	Sheeter T	<u>(2</u> 2/2) T	1.N-21.2 T	S	treet	or R	loute:	Num	ber s	(New York)	章的 T	8855) L	%(a(o) T ∵	11 SASS	持续級	144.60° (5) 	·科斯沙 T	#20 m	Velderik I., ∫3	gryddid Fagir	T AN
5	8	5	6	1000	2	3	7	14	50 Jan 5	V	7	R	E	C	1	() () () () () () () () () ()	10.00		i i i i i i	18.8		1000	Mri.	97 (c)	iv-i	1.1.1.), h.g.; 		13132
	3200 1	4	<u> नक्ता</u> याः (क्वान्यः 1	111	100 p	 			157°.	Cit	y or	Town	<u> </u>	15 TH	黎火	THE PARTY				1 ()	(4.14)	3 95	8	tate	4.00	.∵ Z	IP Co	de	1925 1939
_C ≅6	0	G	0	E	10		1	Comp.	***		2.27	a via			能逐		1.4.60 P				i wy	. v.c.	U		8	4	4	0	1
ΙV	Ins	talla	tior	î Cc	onta								بيبا		Contracting	- iz inist	: 1 3152° ED V	To the Property	**************************************	.4.721	· Section (de la	et energy	2.0.0		N. 12-		1 /124 11 2		112013
· Cu		(20.5) 1 123	1	(3/199) 	1 30 M	Nar	ne an	nd Tit	e (la:	st, fir	St, BI	nd Jot	title	100	Heggs L	建筑	OFFI T	<u> </u>	VI San	極極	Pho	ne Ni	imbe	t (are	98 CO	de an	nd nu	mber	加入
2	M	0	12	6	10	0.		U	14	///		m	a	K)		\$ C	i			8	0		89	do	1	7	0	2	8
Vi	<u>Ow</u>	ners	<u>hip</u>			e some arease of the confidence	A	Name	Tot li	ielall	ation	Ve Ta	nal C	าเมากล	\$*************************************		经制的	花科群	1七十五	新教	學的有	В	TVh	营业	าเมาะ	Hanir	o (ent	dr 00	da)\
)(C)	17	A	M	JE.	15		0	A	7	T	1-	R			1/	3.57.20	*****	Senior Propi	1 (100) 1 (100) 2 (100)	The Ar	ellah:	201	ρ_{l}	2,01.5 (160an)	110.56	range (MC)	984 S	7(353 7	<u>uoj.,,</u>
物Ra VIA	Tvi	20 0	f Re	aul	ated	Wa	ste	Acti	vity	M	ark '	Y' //	the	9 90	proc	riate	e ho	YAS.	Ref	ar to	ins	truc	tion	00	, a , a		100 1 100 A		
MAR		#Birt	保給		. Haz						關鍵	200			in	不		N/Va/						tiviti	8	學學		建設	
		Gene						16.1		than	1,00	Ю kg,	/mo.] 6 O)ff-St	ecifi 'X' h	cation	n Use	id Ol	Fue	hox	ach.	າວຜາ				
占	3.7	rans; reate	oorte or/St	r. orer	/Disp	oser,				쏊		ANN	分					$C_{ij} = B_{ij}$	nerat	Per Control	100	243 A S	B(S,0,x)	WAS S					
迎	la L	Jnder	groui	ind In	njectic	on 👭). Oth	іөг М	arkat	er								
	Б. Л	larke enter	t or t 'X' a	Jurn ind n	Haza nark a	rdoù! Ippro	s Was priate	ste FL boxe	iel :** 35 be	low)							(☐)°	. Bur	ner										
		1		30 77.66	tor M	100	ing to	Burr	ıer/					翻		J7.s	pecif Vho F	icatic irst (in Us Claim	ed O	l Fue Oll I	i Ma Veet	rkete s the	ir <i>for</i> Spec	On si	te Bi	ûrner.	屬	
		4	o Otn S Bur	1.21	(arket	er.													湖麓							建			
VII.	We				irnin <i>fuel</i>	g; T	уре	of C	om	bus	tion	De	vice	(ent	er'X'	in all	appr	opria	të bo	xes to	o indi	cate	lype	of cor	nbus	tion c	levici)(s) in	
	Minu Minu	20,00	ilio vi		A, Uti	2.12.12.		100 m	4.1	10 and 4	Direction in the	والاستناد	C . E. W. S.	DESCRIPTION OF	11 8 65 6	1.0			が認	1232	7.33.77	168 1864	11.15	urna	7.6%(1)				
VIII	, M	ode	of 7	Fran	вро	rtati	ion (tran	spo	rter	s on	<u>ıy —</u>	- en	er '	X' ir	the	app	rop	riate		(es)	爱							
	Α, Α	Mr.		B. Ra	oll in	□с	. Higi	nway	<u>.</u>	□ p.	Wat	er) <u>19</u>		E. Otl	her <i>(s</i>	pecif	y)		Wage	W.	Wall Street	i de la companya de l							
4, 1, 1, 1			2.00		quen		1 . 111.														214			1000				100	4.1
Mari notif	ζ'X' icati	in th on, if	e ap	propr is no	riate It you	box t r first	o ind i notif	icate licatic	whe n, ei	ther nter \	this your	is yo insta	ur in Ilatio	stalla n's E	ation' PA II	s firs Nun	it not nber	ificat In the	ion c e spa	of haz ce pr	zardo ovide	us w d bel	este low.	activ	ity o	.a.sı	npsec	uent	
	60%	198439 AM: 12	網次					ar in mbbs		14)	NAME OF THE PARTY	機能	為影		· 图·沙		11/1/2		W.C	2. Ins	tallat	ion's	EPA	ID N	umbe	er 👋	為被	200
Щ,	A, F	irst N	lotific	oation	n I	⊔в.	Subi	seque	int N	otific	ation	ı (con	nplet	e iter	n C)		外						ļ						

Marie Committee of the second of the second

* 2.5 Martina de la companya del companya de la companya del companya de la companya del la companya de la comp	
1.000 (2006) 1.00 1.000 (2006) 1.000 (2006) 1.000 (2006) 1.000 (2006) 1.000 (2006) 1.000 (2006) 1.000 (2006) 1.000 (2006) 1.000	ID For Official Use Only
N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C T/A Co
X. Description of Hazardous Wastes (continued from	
As Hazardous Wastes from Nonspecific Sources. Enter the four d	digit number from 40 <i>.CFR</i> .Part 261,31.for each listed hazardous waste, nel sheets.if necessary
3	6.00
P002	
77	10 10 11 11 11 11 11 11 11 11 11 11 11 1
B. Hexardous Wastes from Specific Sources, Enter the four digit	thumber from 40.0FR Part 25132 for each listed hazardous waste from
specific sources your installation handles. Use additional sheets	ts If necessary
13 (2) (14 (2) (2) (15 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	
19 20 21	22 23 24
25 27	28 29 30 30
C. Commercial Chemical Product Hazardous Wastes Enter the fo	four digit number from 40. <i>CFR</i> .Part 261.33 for each chemical substance and said the said to the said
31,000 33	36
37 38 39	
43 44 44 45 46 46	46 47 48
	GFR Part 26134 for each hezardous waste from hospitals, veter nary hos
pitals, or medical and research laboratories your installation han	
49 (50) (51) (51) (52) (48) (52) (48) (52) (53) (53) (54) (54) (54) (54) (54) (54) (54) (54	3. 3. 3. 5. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
E. Characteristics of Nonlisted Hazardous Westes, Mark X in the xxyour installation handles (See 40 CFR Perts 261.21 — 261.24)	ne boxes corresponding to the characteristics of nonlisted hazardous wastes [18]
☐:1 Ignitable ☐ 2 Corrosive	□3 Reactive □4 Toxics
(D001)	(DOOS)
XI. Certification	v examined and am familiar With the information submitted in \\
this and all attached documents, and that based or	n my inquiry of those individuals immediately responsible for
>>>> obtaining the information > I believe that the submitte >>>> there are significant penalties for submitting false in	ted information is true, accurate, and complete it am aware that is information, including the possibility of fine and imprisonment.
	and Official Title (type or print) 1985 154 page Date Signed
January Imo	(Timesan) - SWNEL 10-2-86
EPA Form 8700-12 (Rev. 11-85) Reverse	

Committee of the Commit

the contraction of the contracti

The first telephone with

.

U.S. ENVIRONMENTAL BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL PROTECTION AGENCY OR ENTER: MEYER CLEANING VILLAR SITE NAME 1987 Hazardous Waste Generation and Shipment Report **IDENTIFICATION AND** CERTIFICATION EPA ID NO. WHO MUST COMPLETE THIS FORM? Form IC must be completed by every site that received this package. **INSTRUCTIONS:** Please read the detailed instructions beginning on page 8 of the 1987 Hazardous Waste Generation and Shipment Report Instructions booklet before completing this form. Complete Sections I through IV and Sections VI through IX Immediately. Complete Section V, certification, after you have finished the full report package. Site name and physical location which may differ from the mailing address. Complete items A through G. Mark [X] for items A, B, C, D, F, and G if same as label; if different, enter corrections, if label is absent, enter information. MEYER CIEMMINEL B. EPA ID No. A. Site/company name Same as label Same as label C. Address number and street name of physical location - If not known, enter industrial park, building name or other physical location description D. City, town, village, etc. F. State Same as label OGDEN SEC. Mark [X] for A, B, C, and D if same as label; if different, enter corrections. A. Number and street name of mailing address Same as label B. City, lown, village, etc. D. Zip Code C. State Same as label Same as label Same as label SEC. III. Name, title, and telephone number of the person who should be contacted if questions arise regarding this report? A. Please print: Last name Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the SEC. services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. SIC codes are listed beginning on page 1 of the 1987 Hazardous Waste Generation, Shipment and Management Report Codebook I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information Is true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment. B. Signature Date of signature

azzetaki	SEC. Does this site's EPA ID authorize hazardous waste generation?	gran (80) 5 1 - 1
	NO SKIP TO SECTION VII.	2
	YES — Did this site generate any hazardous waste during 1987?	Ÿ
•	YES READ DETAILED INSTRUCTION ON PAGE 9 OF THE 1987 HAZARDOUS WASTE GENERATION AND SHIPMENT REPORT INSTRUCTIONS BOOKLET FOR ACUTE AND ACCUMULATION LIMITS, MARK X NEXT TO THE HAZARDOUS WAS GENERATION QUANTITY CATEGORY THAT APPLIED TO THIS SITE DURING 1987.	ORT STE
	☐ Category 1: More than 1000 kg (2,200 lb) in one or more months ☐ Category 2: More than 100 kg (220 lb) but no more than 1000 kg (2,200 lb) in any single month ☐ Category 3: No more than 100 kg (220 lb) in any single month	:
	Mark X If this site changed from Category 1 to Category 2 or 3 due to waste minimization activity conducted during 1 or 1987.	986
	□ NO —— CONTINUE BELOW, MARK X NEXT TO ALL THAT APPLY.	
	☐ Generated, excluded or delisted wastes ☐ Generated hazardous waste prior to 1987 but do not expect to generate in the future - MARK☑FOR REASON IN ONE BOX BEL	ow
41.7	☐ Waste was from one-time event(s) (e.g. spills, remedial actions, etc.) ☐ Waste minimization activity undertaken during 1986 or 1987 ☐ Out of business	1 12:22
, in seri	Generated hazardous waste prior to 1987 and expect to generate in the future Never generated before but expect to generate in the future	4. j 4./j
	☐ Never generated and do not expect to generate in the future - MARK ☒ FOR REASON IN ONE BOX BELOW ☐ Protective notifier only	
	Misunderstood the requirements	
nigo es	☐ Notified to secure transportation services ☐ Other EXPLAIN REASON FOR GENERATOR NOTIFICATION IN COMMENTS	
ν	SEC. Does this site have RCRA Interim Status or a RCRA permit to treat, store, or dispose hazardous waste?	
:	NO DESTRUCTION OF STREET	
t Seese	YES — Did the site treat, store, or dispose (T/S/D) hazardous waste in RCRA-regulated units during 1987?	e se divi
1	TO VES SKIP TO SECTION VIII	
	NO CONTINUE BELOW, MARK NEXT TO ALL THAT APPLY	
) · ·	☐ T/S/D excluded waste during 1987	113
	☐ T/S/D hazardous waste in exempt units during 1987 ☐ T/S/D hazardous waste prior to 1987 but did not T/S/D waste during 1987, MARK ☒ IN ONE BOX BELOW	
sempres.	T/S/D will resume in the future	
	☐ Have notified of planned closure	À
egter See to	Site is in closure or post closure	
	☐ Never T/S/D hazardous waste prior to 1987 but: MARK ☒ IN ONE BOX BELOW	ti e ti Hereny
	Expect to T/S/D hazardous waste in the future Do not expect to T/S/D hazardous waste in the future - EXPLAIN REASON FOR INTERIM STATUS OR PERMIT IN COMMEN	TS.
	SEC. Do you wish to withdraw this site's generator notification or EPA Part A permit application?	
10,27	Withdraw generator notification	<u> </u>
	Withdraw Part A permit application ☑ Yes ☑ No	neris.
	SEC. Does this site have an area not requiring a RCRA Part A or Part B permit that is used exclusively for the short te accumulation of hazardous waste?	rm
	NO N	
	YES — DOES THE AREA HAVE:	
	Containers No Yes ENTER THE NUMBER OF TANKS AND THEIR TOTAL CAPACITY IN GALLONS. Tanks No Yes	
	Number Gallon capacity	
	Comments:	
	DISCONTINUED OPERATINE PLATOT IN EDNCY 1987. CLEANING WAS DONE AT ANOTHER LOCATION. SOLD BUSINES THOURTY 1988.	
	Page 2/0f	

Wyther and a Street Land



January 29, 2020

Ogden City Business Development 2549 Washington Blvd., Suite 420 Ogden, UT 84401

Attention:

Nelson Riches

Subject:

Subsurface Environmental Sampling Investigation

Forsey Cleaners & Laundry

856 25th Street Ogden, Utah

AGEC Project No. 1200034

Gentlemen:

Applied Geotechnical Engineering Consultants, Inc., (AGEC) was requested to conduct a limited subsurface environmental investigation in the vicinity of Forsey Cleaners & Laundry at 856 25th Street in Ogden, Utah.

The subject property is occupied by Forsey (4-C) Laundry and Cleaners, a one-story, 4,100-square-foot, masonry-block commercial building at 856 East 25th Street. The south end of the building is a self-serve, coin-operated laundry facility. Offices and storage are on the north end of the building. No dry cleaning is currently performed in the building. An asphalt-paved parking lot is west of the building.

SITE HISTORY

A house was built by 1906 at 856 East 25th Street and was converted into the East Side Nursing Home by the mid 1950s. The house/nursing home was removed by 1961 and replaced with the existing laundry facility at 856 East 25th Street. The building was occupied by Norge Cleaning Village/Meyer's Norge Village from the 1960s to the late 1980s. In the late 1980s, the business name changed to Forsey's Norge self serve laundry and then Forsey's Laundry and Cleaning Village, 4-C's Wash Basin and Four Seasons Laundromat. We understand that dry cleaning has not been performed on site since about 1987.

The property is listed on the RCRA Generator list for Meyers Cleaning Village at 856 25th Street. The facility was a small quantity generator of hazardous waste. The dry-cleaning facility was closed in early 1987 when the dry cleaning began to be performed at another facility. The business was sold in January 1988. The Forsey laundry does not perform dry cleaning on site.

SAMPLING INVESTIGATION

To help determine if the historical dry cleaner has impacted the property, AGEC conducted a limited subsurface sampling investigation by obtaining soil, groundwater samples and performing a soil vapor investigation with locations inside and outside the existing building. This sampling event was not intended to delineate the extent of the contamination, if present, in the soil vapor, soil or groundwater.

Older dry cleaners typically used and stored significant quantities of chlorinated solvents including tetrachloroethylene (PCE or perc) that can impact the subsurface soils and groundwater due to historical spills and releases of the solvent. The former dry cleaner is a recognized environmental condition.

During environmental and geotechnical investigations in the vicinity of the property, subsurface water was measured at approximately 7 to 9 feet below the ground surface with a gradient to the west.

AGEC conducted the limited sampling investigation with two exterior borings (GP-1 and GP-2) near the west and north side of the northwest end of the building, presumably where the historical dry-cleaning equipment was located (Figure 1). Two soil vapor sampling points (PRT-1 and PRT-2) were sampled adjacent to the borings west of the building. Two indoor subslab soil vapor samples were obtained in the northwest room, presumably near the historical dry-cleaning equipment.

AGEC personnel arranged for a Utah-licensed drilling subcontractor (Earthprobe Environmental Field Services) to perform the exterior sampling using a track-mounted Geoprobe rig on January 20, 2020. The exterior borings (GP-1 and GP-2) were advanced at 10 feet to encounter the groundwater. The groundwater was measured approximately 7 to $7\frac{1}{2}$ feet below the asphalt pavement in the borings. Soil and groundwater environmental samples were obtained from each of the two environmental borings. The soil and groundwater samples were obtained with the use of a Geoprobe driving a 2-inch diameter dual-tube sampling rod. The soil was logged and continuously sampled to the bottom of the borings. Both borings encountered fill to approximately 3 feet below the pavement followed by lean clay with sand extending to the bottom of the borings. The soil was field screened with the use of a photo ionization detector (PID) to help identify soils that have been impacted by volatile organic compounds. Elevated PID readings were not measured in the four soil samples obtained for screening (Table 1). Soil samples were obtained from each boring near the ground surface (0-2 feet) and near the groundwater interface (7 feet). The soil samples were placed in new glass jars provided by the analytical laboratory with no head space while wearing new disposable gloves.

The groundwater samples were obtained from each boring with the use of a decontaminated steel screen set in the bottom of the boring. The water samples were obtained with a disposable hose and a peristaltic pump. The groundwater samples were transferred directly to 40 ml glass vials equipped with Teflon septa, preserved with 2 percent hydrochloric acid as provided by the analytical laboratory. The soil and groundwater samples will be obtained in general accordance with the sampling protocol as set by Utah State and the Environmental

Protection Agency. The sample jars and vials were labeled with the location, depth, date and time, immediately stored in a cooler with ice and transported with chain of custody forms to a Utah-certified analytical laboratory. The soil and groundwater samples were submitted to the laboratory for analysis of total volatile organic compounds (VOCs). Chain of Custody forms supplied by the analytical laboratory were used.

Soil vapor samples were also obtained from two exterior borings adjacent to borings GP-1 and GP-2 with a Post-Run Tubing (PRT) system (PRT-1 and PRT-2). The direct-push method was used to drive a disposable point to a depth of approximately 5 feet below grade. The sampling depth of 5 feet was used as soil vapor samples collected at less than 5 feet below the ground surface may be subject to barometric pressure effects and may be prone to breakthrough of ambient air through the soil column. Once the appropriate depth was reached, the probe rod was retracted approximately 4 to 6 inches to push out the expendable point and expose the point to the subsurface soil vapor. Teflon tubing was attached to the PRT and an adapter with an O-ring with a threaded connection engaged the adapter with ¼-inch diameter tubing. A syringe was then used to purge the tubing of dead air. A T-valve on the sampling train was then be turned to allow the soil vapor sample to be collected with a certified clean 1-liter Summa canister. The soil vapor was collected via the Summa's flow regulator (pre-calibrated to flow at 200 milliliters per minute) for 5 minutes. The initial and final vacuum readings were recorded for each canister. After the soil, groundwater and soil gas samples were obtained, the outdoor borings were filled with granular bentonite clay and the asphalt pavement was patched.

The two subslab soil vapor samples were obtained on January 21, 2020 by used a hammer drill with a 0.625-inch concrete drill bit to drill holes through the concrete slab. A Vapor Pin, constructed with a single piece of metal, was installed with a silicon sleeve, forming an air tight seal between the Vapor Pin and the side of the borehole. A short section of new tubing was attached to the top of the Vapor Pin and purged with a syringe before being connected with a sampling train to a certified clean 1-liter Summa canister. The valve on the Summa canister was opened and the soil vapor collected via a flow regulator (pre-calibrated to flow at 200 milliliters per minute). The soil vapor samples (VP-1 and VP-2) were drawn and the initial and final vacuum readings were recorded. After the 5 minute sampling period was complete and the canister closed, the Vapor Pin assembly was removed from the floor and the concrete floor was patched.

The SUMMA canister samples were shipped and submitted under chain of custody protocols to Pace Analytical National, a Utah-certified laboratory for analysis of volatile compounds by method TO-15. The analytical results were compared with the EPA risk-based Commercial and Residential Vapor Intrusion Screening Level (VISL) Calculator. The VISL Calculator is a technical resource, developed by the EPA that: (1) identifies chemicals considered to be typically vapor-forming under environmental conditions and known to pose a potential cancer risk or noncancer hazard through the inhalation pathway; (2) provides generally recommended screening-level concentrations for groundwater, near-source soil gas (exterior to buildings), sub-slab soil gas, and indoor air; and (3) facilitates calculation of site-specific screening levels and/or candidate risk-based cleanup levels based on user-defined target risk levels, exposure scenarios, and semi-site-specific or site-specific attenuation factors. An exceedance of a VISL does not necessarily identify a definitive, site-specific, indoor air quality issue or concern but

may indicate that additional investigation and monitoring of site-specific conditions may be warranted.

ANALYTICAL RESULTS

The four soil samples did not contain concentrations of the analyzed contaminants above the laboratory reported detection limits with the exception of 2-Butanone also known as methyl ethyl ketone (MEK) and tetrachloroethylene (PCE). The contaminant concentrations were compared to the residential and commercial November 2019 EPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites. RSLs are not necessarily cleanup standards. The RSL's role in site "screening" is to help identify areas, contaminants, and conditions that may require further attention at a particular site. The detected concentrations of MEK and PCE were below the respective residential RSL values as indicated on Table 1.

The only contaminant detected in the two groundwater samples above the laboratory method detection limits was PCE (Table 2). The concentrations of PCE were 0.0422 mg/L (GP-1) and 0.00661 mg/L (GP-2). The EPA Maximum Contaminant Level (MCL) for PCE is 0.005 mg/L so both concentrations exceeded the MCL.

Compounds detected above the laboratory method detection limits in the two exterior samples and two subslab samples included acetone, benzene, 1,3-butadiene, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cumene (isopropylbenzene), cyclohexane, 1,1-dichloroethene, cis 1,2-dichloroethene, 1,4-dioxane, ethanol, 4-ethyltoluene, ethylbenzene, trichlorofluoromethane, dichlorofluoromethane, N-heptane, N-hexane, isopropanol (2-propanol), 2-butanone (MEK), methylene chloride, naphthalene, propylene (propene), styrene, PCE, toluene, trichloroethylene (TCE), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m & p-xylene and o-xylene.

The soil gas analytical results were compared with the November 2019 US EPA risk-based residential and commercial VISL calculator and are summarized on Table 3 in Appendix A. The only VOCs detected above the residential VISL were 1,3-butadiene in sample PRT-2, chloroform in VP-2, naphthalene in VP-1, PCE in PRT-1, VP-1 and VP-2 and TCE in VP-1 and VP-2.

The concentrations of PCE were significantly higher in the two subslab samples than the exterior PRT samples. The degradation process of PCE produces daughter products as it works toward non-regulated, non-toxic compounds. The primary daughter products of PCE include TCE, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, and vinyl chloride.

According to the EPA, motor vehicle exhaust is a constant source of 1,3-butadiene and it is usually found in ambient air at low levels in urban and suburban areas.

Potential sources of chloroform include chlorine-treated drinking water. Chlorinated drinking water can leak from buried water supply or sanitary sewer lines. A floor drain was within several feet of VP-2 and is likely the source of the chloroform.

Naphthalene is found in cigarette smoke, car exhaust and diesel fuel.

CONCLUSIONS

Significant contaminant concentrations were not detected in the four soil samples. PCE was detected in the groundwater in both sampling locations at concentrations above the MCL.

Compounds detected above the residential VISL in the two exterior and two subslab soil vapor samples included 1,3-butadiene, chloroform, naphthalene, PCE and TCE. The concentrations of PCE were significantly higher in the two subslab samples than the exterior PRT samples. TCE was only detected in the two subslab samples. Based on the limited sampling performed to date, it appears the PCE contamination is a result of an historical release near the former dry-cleaning equipment.

The sources of 1,3-butadiene, chloroform and naphthalene in the soil vapor samples are unknown. As they each were only detected in one of four samples, these compounds do not appear to be widespread contaminants on the property.

LIMITATIONS

This environmental sampling report has been prepared in accordance with generally accepted environmental practices in this area for the use of the client. The conclusions of the report are based on the information obtained from the soil, groundwater and soil vapor samples obtained at the locations indicated in the report and the data obtained from laboratory testing.

Applied Geotechnical Engineering Consultants, Inc. does not represent that the air, soil and groundwater on the property contains no hazardous materials or other latent conditions beyond the compounds and locations tested.

If you have any questions, or if we can be of further service, please call.

Sincerely,

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.

Thomas R. Atkinson

Reviewed DRH, P.E., P.G.

Attachments





From Google Earth Aerial Photograph July 18, 2019



Approximate Scale 1 inch = 40 feet FORSEY CLEANERS & LAUNDRY 856 25TH STREET OGDEN, UTAH

1200034



APPENDIX A ANALYTICAL RESULTS TABLES

Soil and Groundwater Analytical Results Forsey's Laundry

Table 1 - Soil Results

Sample	Depth	Date	PID	MEK	PCE
	(feet)		(ppm)	(mg/kg)	(mg/kg)
GP-1	0 to 2	1/20/2020	0.4	0.0306	0.0104
GP-1	7	1/20/2020	5.4	0.031	0.0108
GP-2	0 to 2	1/20/2020	0	0.0275	0.0135
GP-2	7	1/20/2020	1.1	0.0324	ND
November 20	19 EPA Re	sidential SL		27,000	24
November 20	19 EPA Inc	dustrial SL		190,000	100

Table 2 - Groundwater Results

Sample	Depth	Date	PCE
	(feet)		(mg/L)
GP-1	0 to 2	1/20/2020	0.0422
GP-2	7	1/20/2020	0.00661
November	0.011		
November	0.005		

ND = Non Detect

Table 3 - Soil Gas Analytical Results Forsey's Laundry

Ohamiaal	CAS	Toxicity	PRT-1 (μg/m³)	PRT-2	VP-1	VP-2	Residential Target Sub-Slab and Near-source Soil Gas Concentration (TCR = 1E-06 or THQ = 0.1) C_{sg} , Target	Commercial Target Sub-Slab and Near-source Soil Gas Concentration (TCR = 1E-06 or THQ = 0.1) C _{sg} , Target
Chemical Acetone	Number 67-64-1	Basis NC	(μg/m) 122	(μg/m³) 31.1	(μg/m³) 81.7	(µg/m³) 96.7	(μg/m³) 107,000	(μg/m³) 451,000
Benzene	71-43-2	CA	3.05	7.19	1.09	1.59	12	52.4
Butadiene, 1,3-	106-99-0	CA	ND	26.8	ND	ND		
Carbon Disulfide	75-15-0	NC	ND ND	7.66	ND ND	ND ND	2,430	
Carbon Tetrachloride	56-23-5	CA	2.03	7.00 ND	ND ND	ND ND	15.6	10,200
						17		68.1
Chloroform	67-66-3	CA	ND	ND 0.400	ND		4.07	17.8
Chloromethane	74-87-3	NC	1.31	0.498	0.764	ND	313	1,310
Cyclohexane	110-82-7	NC	ND	ND	ND	0.813	20,900	87,600
Dichloroethene, 1,1-	75-35-4	NC	ND	ND	2.37	ND	695	2,920
Dichloroethene, cis 1,2-	156-59-2	-	ND	ND	19.6	9.67	NA	NA
Dioxane, 1,4-	123-91-1	CA	ND	ND	ND	6.56	18.7	81.8
Ethanol	64-17-5		50.5	7.52	30.4	27.5	NA	NA
Ethylbenzene	100-41-4	CA	1.08	1.21	1.68	ND	37.4	164
Ethyltoluene, 4-	622-96-8		ND	ND	2.91	ND	NA	NA
Trichlorofluoromethane	75-69-4		1.25	ND	2.24	1.31	NA	NA
Dichlorodifluoromethane	75-71-8	NC	ND	1.94	2.94	2.32	NA	NA
Heptane	142-82-5	NC	1.43	1.43	0.83	2.42	1,390	5,840
Hexane, N-	110-54-3	NC	2.92	4.05	1.23	6.49	2,430	10,200
Isopropylbenzene	98-82-8		ND	ND	2.18	ND	1,390	5,840
Methylene Chloride	75-09-2	CA	2.57	0.847	ND	1.24	2,090	8,760
2-Butanone (MEK)	78-93-3	NC	7.93	11.2	12.3	5.07	17,400	73,000
Naphthalene	91-20-3	CA	ND	ND	5.97	ND	2.75	12
2-Propanol (Isopropanol)	67-63-0	NC	5.92	ND	7.67	15	695	2,920
Propene (Propylene)	115-07-1	NC	ND	164	3.99	ND	10,400	43,800
Styrene	100-42-5	NC	ND	1.66	ND	ND	3,480	14,600
Tetrachloroethylene	127-18-4	CA	25.4	468	37,100	74,000	139	584
Toluene	108-88-3	NC	7.84	6.93	3.06	2.5	17,400	73,000
Trichloroethylene	79-01-6	NC	ND	ND	399	427	6.95	29.2
Trimethylbenzene, 1,2,4-	95-63-6	NC	2.05	1.03	4.49	ND	209	876
Trimethylpentane, 2,2,4-	540-84-1		5.05	ND	ND	ND	NA	NA
Xylene, M & P-	1330-20-7	NC	4.94	2.63	4.22	ND	348	1,460
Xylene, o-	95-47-6	NC	1.78	1.09	1.22	ND	348	1,460

NA = Not Available - No EPA Target ND = Non Detect

APPENDIX B PACE ANALYTICAL REPORTS



ANALYTICAL REPORT

January 22, 2020

Applied GeoTech

L1181249 Sample Delivery Group:

Samples Received: 01/21/2020

Project Number: 1200034

Description: Forsey's

Report To: Thomas Atkinson

600 West Sandy Parkway

Sandy, UT 84070

Entire Report Reviewed By: Washne R Richards

Daphne Richards

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

















Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
GP1 @ 0-2' L1181249-01	5
GP1 @ 7' L1181249-02	7
GP2 @ 0-2' L1181249-03	9
GP2 @ 7' L1181249-04	11
GP-1 L1181249-05	13
GP-2 L1181249-06	15
Qc: Quality Control Summary	17
Total Solids by Method 2540 G-2011	17
Volatile Organic Compounds (GC/MS) by Method 8260B	18
GI: Glossary of Terms	28
Al: Accreditations & Locations	29
Sc: Sample Chain of Custody	30





















ONE LAB. NATIONWIDE.

304
4

	O/ (IVII LL (3 0 11111	,,, ,,, ,			
			Collected by	Collected date/time	Received da	te/time
GP1 @ 0-2' L1181249-01 Solid			Thomas Atkins	01/20/20 09:30	01/21/20 08:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	,	
otal Solids by Method 2540 G-2011	WG1414684	1	01/21/20 17:09	01/21/20 17:17	KBC	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1414651	1	01/21/20 10:58	01/22/20 02:48	JHH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
GP1 @ 7' L1181249-02 Solid			Thomas Atkins	01/20/20 09:40	01/21/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1414684	1	01/21/20 17:09	01/21/20 17:17	KBC	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1414651	1	01/21/20 10:58	01/22/20 03:07	JHH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
GP2 @ 0-2' L1181249-03 Solid			Thomas Atkins	01/20/20 10:30	01/21/20 08:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1414684	1	01/21/20 17:09	01/21/20 17:17	KBC	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1414651	1	01/21/20 10:58	01/22/20 03:26	JHH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
GP2 @ 7' L1181249-04 Solid			Thomas Atkins	01/20/20 10:40	01/21/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1414684	1	01/21/20 17:09	01/21/20 17:17	KBC	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1414651	1	01/21/20 10:58	01/22/20 03:45	JHH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
GP-1 L1181249-05 GW			Thomas Atkins	01/20/20 09:50	01/21/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
olatile Organic Compounds (GC/MS) by Method 8260B	WG1414558	1	01/21/20 15:36	01/21/20 15:36	ADM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
GP-2 L1181249-06 GW			Thomas Atkins	01/20/20 10:50	01/21/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location

SAMPLE SUMMARY



















Volatile Organic Compounds (GC/MS) by Method 8260B

WG1414558

date/time

01/21/20 15:56

date/time

01/21/20 15:56

ADM

Mt. Juliet, TN

.

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

knowingly withheld that would affect the quality of the data.

Japhne R Richards

Daphne Richards Project Manager <u>ср</u>

















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 09:30

Volatile Organic Compounds (GC/MS) by Method 8260B

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	%			date / time		
Total Solids	92.2		1	01/21/2020 17:17	WG1414684	





Ss

⁴ Cn











	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Acetone	ND	<u>J3</u>	0.0271	1	01/22/2020 02:48	WG1414651
Acrylonitrile	ND	_	0.0136	1	01/22/2020 02:48	WG1414651
Benzene	ND		0.00108	1	01/22/2020 02:48	WG1414651
Bromobenzene	ND		0.0136	1	01/22/2020 02:48	WG1414651
Bromodichloromethane	ND		0.00271	1	01/22/2020 02:48	WG1414651
Bromoform	ND		0.0271	1	01/22/2020 02:48	WG1414651
Bromomethane	ND		0.0136	1	01/22/2020 02:48	WG1414651
1,3-Butadiene	ND		0.0271	1	01/22/2020 02:48	WG1414651
n-Butylbenzene	ND		0.0136	1	01/22/2020 02:48	WG1414651
sec-Butylbenzene	ND		0.0136	1	01/22/2020 02:48	WG1414651
tert-Butylbenzene	ND		0.00542	1	01/22/2020 02:48	WG1414651
Carbon tetrachloride	ND		0.00542	1	01/22/2020 02:48	WG1414651
Chlorobenzene	ND		0.00271	1	01/22/2020 02:48	WG1414651
Chlorodibromomethane	ND		0.00271	1	01/22/2020 02:48	WG1414651
Chloroethane	ND		0.00542	1	01/22/2020 02:48	WG1414651
Chloroform	ND		0.00271	1	01/22/2020 02:48	WG1414651
Chloromethane	ND		0.0136	1	01/22/2020 02:48	WG1414651
2-Chlorotoluene	ND		0.00271	1	01/22/2020 02:48	WG1414651
4-Chlorotoluene	ND		0.00542	1	01/22/2020 02:48	WG1414651
1,2-Dibromo-3-Chloropropane	ND		0.0271	1	01/22/2020 02:48	WG1414651
1.2-Dibromoethane	ND		0.00271	1	01/22/2020 02:48	WG1414651
Dibromomethane	ND		0.00542	1	01/22/2020 02:48	WG1414651
1,2-Dichlorobenzene	ND		0.00542	1	01/22/2020 02:48	WG1414651
1,3-Dichlorobenzene	ND		0.00542	1	01/22/2020 02:48	WG1414651
1,4-Dichlorobenzene	ND		0.00542	1	01/22/2020 02:48	WG1414651
Dichlorodifluoromethane	ND		0.00271	1	01/22/2020 02:48	WG1414651
1,1-Dichloroethane	ND		0.00271	1	01/22/2020 02:48	WG1414651
1,2-Dichloroethane	ND		0.00271	1	01/22/2020 02:48	WG1414651
1,1-Dichloroethene	ND		0.00271	1	01/22/2020 02:48	WG1414651
cis-1,2-Dichloroethene	ND		0.00271	1	01/22/2020 02:48	WG1414651
trans-1,2-Dichloroethene	ND		0.00542	1	01/22/2020 02:48	WG1414651
1,2-Dichloropropane	ND		0.00542	1	01/22/2020 02:48	WG1414651
1,1-Dichloropropene	ND		0.00271	1	01/22/2020 02:48	WG1414651
1,3-Dichloropropane	ND		0.00542	1	01/22/2020 02:48	WG1414651
cis-1,3-Dichloropropene	ND		0.00271	1	01/22/2020 02:48	WG1414651
trans-1,3-Dichloropropene	ND		0.00542	1	01/22/2020 02:48	WG1414651
2,2-Dichloropropane	ND		0.00271	1	01/22/2020 02:48	WG1414651
Di-isopropyl ether	ND		0.00108	1	01/22/2020 02:48	WG1414651
Ethylbenzene	ND		0.00271	1	01/22/2020 02:48	WG1414651
Hexachloro-1,3-butadiene	ND		0.0271	1	01/22/2020 02:48	WG1414651
Isopropylbenzene	ND		0.00271	1	01/22/2020 02:48	WG1414651
p-Isopropyltoluene	ND		0.00542	1	01/22/2020 02:48	WG1414651
2-Butanone (MEK)	0.0306	<u>B</u>	0.0271	1	01/22/2020 02:48	WG1414651
Methylene Chloride	ND	_	0.0271	1	01/22/2020 02:48	WG1414651
4-Methyl-2-pentanone (MIBK)	ND		0.0271	1	01/22/2020 02:48	WG1414651
Methyl tert-butyl ether	ND		0.00108	1	01/22/2020 02:48	WG1414651
Naphthalene	ND		0.0136	1	01/22/2020 02:48	WG1414651
n-Propylbenzene	ND		0.00542	1	01/22/2020 02:48	WG1414651
Styrene	ND		0.0136	1	01/22/2020 02:48	WG1414651
1,1,1,2-Tetrachloroethane	ND		0.00271	1	01/22/2020 02:48	WG1414651
ACCOUNT:			PROJECT		SDG:	DATE/TIME: PAG

GP1 @ 0-2'

(S) 1,2-Dichloroethane-d4

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 09:30

94.8

Volatile Organic Compounds (GC/MS) by Method 8260B

L	.11	81	24	9



WG1414651

01/22/2020 02:48

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/kg		mg/kg		date / time		
1,1,2,2-Tetrachloroethane	ND		0.00271	1	01/22/2020 02:48	WG1414651	
1,1,2-Trichlorotrifluoroethane	ND		0.00271	1	01/22/2020 02:48	WG1414651	
Tetrachloroethene	0.0104		0.00271	1	01/22/2020 02:48	WG1414651	
Toluene	ND		0.00542	1	01/22/2020 02:48	WG1414651	
1,2,3-Trichlorobenzene	ND		0.0136	1	01/22/2020 02:48	WG1414651	
1,2,4-Trichlorobenzene	ND		0.0136	1	01/22/2020 02:48	WG1414651	
1,1,1-Trichloroethane	ND		0.00271	1	01/22/2020 02:48	WG1414651	
1,1,2-Trichloroethane	ND		0.00271	1	01/22/2020 02:48	WG1414651	
Trichloroethene	ND		0.00108	1	01/22/2020 02:48	WG1414651	
Trichlorofluoromethane	ND		0.00271	1	01/22/2020 02:48	WG1414651	
1,2,3-Trichloropropane	ND		0.0136	1	01/22/2020 02:48	WG1414651	
1,2,4-Trimethylbenzene	ND		0.00542	1	01/22/2020 02:48	WG1414651	
1,2,3-Trimethylbenzene	ND		0.00542	1	01/22/2020 02:48	WG1414651	
Vinyl chloride	ND		0.00271	1	01/22/2020 02:48	WG1414651	
1,3,5-Trimethylbenzene	ND		0.00542	1	01/22/2020 02:48	WG1414651	
Xylenes, Total	ND		0.00705	1	01/22/2020 02:48	WG1414651	
(S) Toluene-d8	106		75.0-131		01/22/2020 02:48	WG1414651	
(S) 4-Bromofluorobenzene	92.3		67.0-138		01/22/2020 02:48	WG1414651	

70.0-130

















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 09:40

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	85.2		1	01/21/2020 17:17	WG1414684



















	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
Acetone	ND	<u>J3</u>	0.0293	1	01/22/2020 03:07	WG1414651
Acrylonitrile	ND		0.0147	1	01/22/2020 03:07	WG1414651
Benzene	ND		0.00117	1	01/22/2020 03:07	WG1414651
Bromobenzene	ND		0.0147	1	01/22/2020 03:07	WG1414651
Bromodichloromethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
Bromoform	ND		0.0293	1	01/22/2020 03:07	WG1414651
Bromomethane	ND		0.0147	1	01/22/2020 03:07	WG1414651
1,3-Butadiene	ND		0.0293	1	01/22/2020 03:07	WG1414651
n-Butylbenzene	ND		0.0147	1	01/22/2020 03:07	WG1414651
sec-Butylbenzene	ND		0.0147	1	01/22/2020 03:07	WG1414651
tert-Butylbenzene	ND		0.00587	1	01/22/2020 03:07	WG1414651
Carbon tetrachloride	ND		0.00587	1	01/22/2020 03:07	WG1414651
Chlorobenzene	ND		0.00293	1	01/22/2020 03:07	WG1414651
Chlorodibromomethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
Chloroethane	ND		0.00587	1	01/22/2020 03:07	WG1414651
Chloroform	ND		0.00293	1	01/22/2020 03:07	WG1414651
Chloromethane	ND		0.0147	1	01/22/2020 03:07	WG1414651
2-Chlorotoluene	ND		0.00293	1	01/22/2020 03:07	WG1414651
4-Chlorotoluene	ND		0.00587	1	01/22/2020 03:07	WG1414651
1,2-Dibromo-3-Chloropropane	ND		0.0293	1	01/22/2020 03:07	WG1414651
1,2-Dibromoethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
Dibromomethane	ND		0.00587	1	01/22/2020 03:07	WG1414651
1,2-Dichlorobenzene	ND		0.00587	1	01/22/2020 03:07	WG1414651
1,3-Dichlorobenzene	ND		0.00587	1	01/22/2020 03:07	WG1414651
1,4-Dichlorobenzene	ND		0.00587	1	01/22/2020 03:07	WG1414651
Dichlorodifluoromethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
1,1-Dichloroethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
1,2-Dichloroethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
1,1-Dichloroethene	ND		0.00293	1	01/22/2020 03:07	WG1414651
cis-1,2-Dichloroethene	ND		0.00293	1	01/22/2020 03:07	WG1414651
trans-1,2-Dichloroethene	ND		0.00587	1	01/22/2020 03:07	WG1414651
1,2-Dichloropropane	ND		0.00587	1	01/22/2020 03:07	WG1414651
1,1-Dichloropropene	ND		0.00293	1	01/22/2020 03:07	WG1414651
1,3-Dichloropropane	ND		0.00587	1	01/22/2020 03:07	WG1414651
cis-1,3-Dichloropropene	ND		0.00293	1	01/22/2020 03:07	WG1414651
trans-1,3-Dichloropropene	ND		0.00587	1	01/22/2020 03:07	WG1414651
2,2-Dichloropropane	ND		0.00293	1	01/22/2020 03:07	WG1414651
Di-isopropyl ether	ND		0.00117	1	01/22/2020 03:07	WG1414651
Ethylbenzene	ND		0.00293	1	01/22/2020 03:07	WG1414651
Hexachloro-1,3-butadiene	ND		0.0293	1	01/22/2020 03:07	WG1414651
Isopropylbenzene	ND		0.00293	1	01/22/2020 03:07	WG1414651
p-Isopropyltoluene	ND		0.00587	1	01/22/2020 03:07	WG1414651
2-Butanone (MEK)	0.0310	В	0.0293	1	01/22/2020 03:07	WG1414651
Methylene Chloride	ND		0.0293	1	01/22/2020 03:07	WG1414651
4-Methyl-2-pentanone (MIBK)	ND		0.0293	1	01/22/2020 03:07	WG1414651
Methyl tert-butyl ether	ND		0.00117	1	01/22/2020 03:07	WG1414651
Naphthalene	ND		0.0147	1	01/22/2020 03:07	WG1414651
n-Propylbenzene	ND		0.00587	1	01/22/2020 03:07	WG1414651
Styrene	ND		0.0147	1	01/22/2020 03:07	WG1414651
1,1,1,2-Tetrachloroethane	ND		0.00293	1	01/22/2020 03:07	WG1414651

ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 09:40

L1181249

	Docult (dn/)	Qualifier	DDI (dn)	Dilution	Analysis	Datah
	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
1,1,2,2-Tetrachloroethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
1,1,2-Trichlorotrifluoroethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
Tetrachloroethene	0.0108		0.00293	1	01/22/2020 03:07	WG1414651
Toluene	ND		0.00587	1	01/22/2020 03:07	WG1414651
1,2,3-Trichlorobenzene	ND		0.0147	1	01/22/2020 03:07	WG1414651
1,2,4-Trichlorobenzene	ND		0.0147	1	01/22/2020 03:07	WG1414651
1,1,1-Trichloroethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
1,1,2-Trichloroethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
Trichloroethene	ND		0.00117	1	01/22/2020 03:07	WG1414651
Trichlorofluoromethane	ND		0.00293	1	01/22/2020 03:07	WG1414651
1,2,3-Trichloropropane	ND		0.0147	1	01/22/2020 03:07	WG1414651
1,2,4-Trimethylbenzene	ND		0.00587	1	01/22/2020 03:07	WG1414651
1,2,3-Trimethylbenzene	ND		0.00587	1	01/22/2020 03:07	WG1414651
Vinyl chloride	ND		0.00293	1	01/22/2020 03:07	WG1414651
1,3,5-Trimethylbenzene	ND		0.00587	1	01/22/2020 03:07	WG1414651
Xylenes, Total	ND		0.00763	1	01/22/2020 03:07	<u>WG1414651</u>
(S) Toluene-d8	107		75.0-131		01/22/2020 03:07	WG1414651
(S) 4-Bromofluorobenzene	92.7		67.0-138		01/22/2020 03:07	WG1414651
(S) 1,2-Dichloroethane-d4	101		70.0-130		01/22/2020 03:07	WG1414651

















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:30

.1181249

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.8		1	01/21/2020 17:17	WG1414684



















Marylane		Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Acypotatide ND 0.008 1 0/22/20/20 0326 WISHMID Bormanie ND 0.0019 1 0/22/20/20 0326 WISHMID Bormanie ND 0.00275 1 0/22/20/20 0326 WISHMID Bormanie ND 0.00275 1 0/22/20/20 0326 WISHMID Bormanie ND 0.0128 1 0/22/20/20 0326 WISHMID Steffallylamezane ND 0.00551 1 0/22/20/20 0326 WISHMID Cilieratorioride ND 0.00551 1 0/22/20/20 0326 WISHMID Cilieratorioride ND 0.00551 1 0/22/20/20 0326 WISHMID <td< th=""><th>Analyte</th><th>mg/kg</th><th></th><th>mg/kg</th><th></th><th>date / time</th><th></th></td<>	Analyte	mg/kg		mg/kg		date / time	
Acytolitich NO OUTS 1 OVEZ/2002/03/26 Mystellich Bernstreen NO OUTS 1 012/2002/03/26 MOHRES Bernstreen NO OUTS 1 012/2002/03/26 MOHRES Bornondichiornethane NO OUTS 1 012/2002/03/26 MOHRES Branchiornethane NO OUTS 1 012/2002/03/26 MOHRES Chibrothatorene NO OUTS 1 012/2002/03/26 MOHRES	Acetone	ND	<u>J3</u>	0.0275	1	01/22/2020 03:26	WG1414651
Bombelourone ND 0.0028 1 01/22/2020 0326 W9514465 Bromodichioromethane ND 0.00275 1 01/22/2020 0326 W514455 Bromodeshane ND 0.0138 1 01/22/2020 0326 W514455 Bromomethane ND 0.0738 1 01/22/2020 0326 W514455 - Bufferorme ND 0.018 1 01/22/2020 0326 W514455 - Bufferorme ND 0.0051 1 01/22/2020 0326 W514455 Lert Bufferorme ND 0.00551 1 01/22/2020 0326 W514455 Celloraberrare ND 0.00275 1 01/22/2020 0326 W514455 Celloraberrare ND 0.00275 1 01/22/2020 0326 <t< td=""><td>Acrylonitrile</td><td>ND</td><td></td><td>0.0138</td><td>1</td><td>01/22/2020 03:26</td><td>WG1414651</td></t<>	Acrylonitrile	ND		0.0138	1	01/22/2020 03:26	WG1414651
Bornoclarione (MD) 0.0275 1 01/22/2020 0325 W9144851 Bernonform (MD) 0.0275 1 01/22/2020 0325 W0144851 Bernonform (MD) 0.0275 1 01/22/2020 0325 W0144851 1.3-Baladicine ND 0.0275 1 01/22/2020 0325 W0144851 1.3-Baladicine ND 0.0158 1 01/22/2020 0325 W0144851 Sec. Bullytherache ND 0.0058 1 01/22/2020 0325 W0144851 Calbon Lacchiende ND 0.00551 1 01/22/2020 0325 W0144851 Calbon Lacchiende ND 0.00275 1 01/22/2020 0325 W0144851 Cilisocoloriomorrichane ND 0.00275 1 01/22/2020 0325 W0144851 Cilisocoloriomorrichane ND 0.00251 1 01/22/2020 0325 W0144851 Cilisocoloriomorrichane ND 0.00551 1 01/22/2020 0325 W0144851 Cilisocoloriomorrichane ND 0.0055 1 01/22/2020 0326	Benzene	ND		0.00110	1	01/22/2020 03:26	WG1414651
Brancherien ND 0.0725 1 0.1027/200 03276 WIGHARDS 1.3 Buradelen ND 0.075 1 01272020 0326 WIGHASS 1.3 Buradelen ND 0.075 1 01222020 0326 WIGHASS n Buyberaene ND 0.0138 1 01222020 0326 WIGHASS 164 Buyberaene ND 0.0055 1 01222020 0326 WIGHASS 164 Buyberaene ND 0.0055 1 01222020 0326 WIGHASS Chlorochervene ND 0.0075 1 01222020 0326 WIGHASS Chlorochervene ND 0.00275 1 01222020 0326 WIGHASS Chloroform ND 0.00275 1 01222020 0326 WIGHASS <t< td=""><td>Bromobenzene</td><td>ND</td><td></td><td>0.0138</td><td>1</td><td>01/22/2020 03:26</td><td>WG1414651</td></t<>	Bromobenzene	ND		0.0138	1	01/22/2020 03:26	WG1414651
Bonomethane NO 0.018 1 01/22/22/02/01326 WG444651 1.3 Patiatiene NO 0.078 1 01/27/20/010326 WG444651 sec Bullythenzene NO 0.0188 1 01/22/20/010326 WG444651 sec Bullythenzene NO 0.00551 1 01/22/20/010326 WG444651 Chlore Carlonicide NO 0.00551 1 01/22/20/010326 WG444651 Chlore Carlonicide NO 0.00275 1 01/22/20/010326 WG444651 Chlore Carlonicide NO 0.0038 1 01/22/20/010326 WG444651 Chlore Carlonicide NO 0.00275 1 01/22/20/010326 WG444651 La Chlore Carlonicide NO 0.00275 <	Bromodichloromethane	ND		0.00275	1	01/22/2020 03:26	WG1414651
1.3-Butsidener ND	Bromoform	ND		0.0275	1	01/22/2020 03:26	WG1414651
Butyphoracee NO 0,018 1 012222020 03256 Wolfstelds see-Butyphoracee NO 0,018 1 012272020 0326 Wolfstelds Carbon teachiduride NO 0,00551 1 01222020 0326 Wolfstelds Chron teachiduride NO 0,00551 1 01222020 0326 Wolfstelds Chlorodhromomethane NO 0,0075 1 01222020 0326 Wolfstelds Chlorodhromomethane NO 0,0075 1 01222020 0326 Wolfstelds L2-Distromomethane NO 0,0075 1 01222020 0326 Wolfstelds L2-Distromomethane NO 0,0075 1 01222020 0326 Wolfstelds L3-Dictromomethane NO 0,0055	Bromomethane	ND		0.0138	1	01/22/2020 03:26	WG1414651
sec Bulylborzene ND 0.0188 1 01/22/2020 03:26 WIGH4851 Lert Busylborzene ND 0.05651 1 01/22/2020 03:26 WIGH4851 Chlorobertacine ND 0.00275 1 01/22/2020 03:26 WIGH4851 Chloroderbane ND 0.00571 1 01/22/2020 03:26 WIGH4851 Chloroderbane ND 0.00571 1 01/22/2020 03:26 WIGH4851 Chloroderbane ND 0.00575 1 01/22/2020 03:26 WIGH4851 Chloroderbane ND 0.0075 1 01/22/2020 03:26 WIGH4851 2-Chloroderbane ND 0.0075 1 01/22/2020 03:26 WIGH4851 2-Chloroderbane ND 0.0075 1 01/22/2020 03:26 WIGH4851 2-Dibromo-Schlogrophane ND 0.0075 1 01/22/2020 03:26 WIGH4851 2-Dibromo-Schlogrophane ND 0.0075 1 01/22/2020 03:26 WIGH4851 1-Dibromo-Schlogrophane ND 0.0075 <	1,3-Butadiene	ND		0.0275	1	01/22/2020 03:26	WG1414651
lert Bufylbenzene ND 0.00551 1 01/22/2020 03:26 WG144651 Carbon teterachionde ND 0.00551 1 01/22/2020 03:26 WG144651 Chlorodharomenchane ND 0.00275 1 01/22/2020 03:26 WG144651 Chlorodharomenchane ND 0.00275 1 01/22/2020 03:26 WG144651 Chlorodhare ND 0.00275 1 01/22/2020 03:26 WG144651 Chlorodhare ND 0.0138 1 01/22/2020 03:26 WG144651 Chlorodhare ND 0.00551 1 01/22/2020 03:26 WG144651 4 Chlorodhare ND 0.00551 1 01/22/2020 03:26 WG144651 1 2-Disconomelhare ND 0.00551 <	n-Butylbenzene	ND		0.0138	1	01/22/2020 03:26	WG1414651
Carbon tetrachloride NO 0.00255 1 0.122/2020 0.326 WGH44651 Chlorobersene NO 0.00275 1 0.122/2020 0.326 WGH4651 Chlorobersene NO 0.00275 1 0.122/2020 0.326 WGH4651 Chlorobrane NO 0.00275 1 0.122/2020 0.326 WGH4651 Chlorobrane NO 0.00275 1 0.122/2020 0.326 WGH4651 Chlorobluene NO 0.00275 1 0.122/2020 0.326 WGH4651 2-Chlorobluene NO 0.00275 1 0.122/2020 0.326 WGH4651 12-Dibromo-S-Chloropropane NO 0.00551 1 0.122/2020 0.326 WGH4651 12-Dibromo-S-Chloropropane NO	sec-Butylbenzene	ND		0.0138	1	01/22/2020 03:26	WG1414651
Chlorobenzene ND 0.00275 1 01/22/2000 03.26 WGMM651 Chlorodhiromomethane ND 0.00275 1 01/22/2002 03.26 WGM4651 Chlorodrem ND 0.00275 1 01/22/2002 03.26 WGM4651 Chlorofordm ND 0.00275 1 01/22/2002 03.26 WGM4651 Chlorofolume ND 0.00275 1 01/22/2002 03.26 WGM4651 4 Chlorofolume ND 0.00275 1 01/22/2002 03.26 WGM4651 4 Chlorofolume ND 0.00275 1 01/22/2002 03.26 WGM4651 1.2-Dibromomethane ND 0.00275 1 01/22/2002 03.26 WGM4651 1.2-Dichlorobenzene ND 0.00551 1 01/22/2002 03.26 WGM4651 1.2-Dichlorobenzene ND 0.00551 1 01/22/2002 03.26 WGM4651 1.2-Dichlorobenzene ND 0.00551 1 01/22/2002 03.26 WGM4651 1.2-Dichlorobenzene ND 0.00275 1	tert-Butylbenzene	ND		0.00551	1	01/22/2020 03:26	WG1414651
Chlorodibromomethane ND 0.00275 1 01222020 0326 WGMM851 Chlorodhane ND 0.00551 1 012220020 0326 WGMM851 Chloromethane ND 0.00275 1 012220020 0326 WGMM851 Chloromethane ND 0.00275 1 012220020 0326 WGM4851 2-Chloromothane ND 0.00275 1 012220020 0326 WGM4851 1,2-Dibromo-3-Chloropropane ND 0.00275 1 012220020 0326 WGM4851 1,2-Dibromo-4-Chloropropane ND 0.00275 1 012220020 0326 WGM4851 1,2-Dibromo-4-Chloropropane ND 0.00275 1 01222000 0326 WGM4851 1,2-Dibromo-4-Chloropropane ND 0.00551 1 01222000 0326 WGM4851 1,3-Dichloroberzene ND 0.00551 1 01222000 0326 WGM4851 1,4-Dichloroberzene ND 0.00275 1 01222000 0326 WGM4851 1,4-Dichloroberzene ND 0.00275	Carbon tetrachloride	ND		0.00551	1	01/22/2020 03:26	WG1414651
Chloroethane ND 0.0551 1 0122/2020 0326 WG144651 Chloroferm ND 0.0075 1 0122/2020 0326 WG144651 2-Chlorotobune ND 0.0038 1 0122/2020 0326 WG144651 2-Chlorotobune ND 0.00571 1 0122/2020 0326 WG144651 12-Dibromo-Schloropropane ND 0.00275 1 0122/2020 0326 WG144651 12-Dibromo-Ehane ND 0.00551 1 0122/2020 0326 WG144651 12-Dichlorodenzene ND 0.00551 1 0122/2020 0326 WG144651 12-Dichlorodenzene ND 0.00551 1 0122/2020 0326 WG144651 13-Dichlorodenzene ND 0.00775 1	Chlorobenzene	ND		0.00275	1	01/22/2020 03:26	WG1414651
Chloroform ND 0.00275 1 01/22/2020 03:26 WG144651 Chloromehane ND 0.038 1 01/22/2020 03:26 WG144651 4-Chlorofolune ND 0.00275 1 01/22/2020 03:26 WG144651 1-2-Dirbrome-S-Chloropropane ND 0.00551 1 01/22/2020 03:26 WG144651 1-2-Dirbrome-S-Chloropropane ND 0.00275 1 01/22/2020 03:26 WG144651 1-2-Dirbrome-S-Chloropropane ND 0.00551 1 01/22/2020 03:26 WG144651 1-2-Dirbrome-S-Chloropropane ND 0.00275 1 01/22/2020 03:26 WG144651 1-2-Dirbrome-S-Chloropropane ND 0.00275 1 01/22/2020 03:26 WG144651	Chlorodibromomethane	ND		0.00275	1	01/22/2020 03:26	WG1414651
Chloroform ND 0.00275 1 01/22/2020 03:26 WG144651 Chloromethane ND 0.038 1 01/22/2020 03:26 WG144651 Chlorofoluene ND 0.00275 1 01/22/2020 03:26 WG144651 1-2-Diromog-Chloropropane ND 0.00551 1 01/22/2020 03:26 WG144651 1-2-Diromog-Chloropropane ND 0.00275 1 01/22/2020 03:26 WG144651 1-2-Diromog-Chloropropane ND 0.00551 1 01/22/2020 03:26 WG144651 1-2-Diromog-Chloropropane ND 0.00275 1 01/22/2020 03:26 WG144651 1-2-Diromog-Chloropropane ND 0.00275 1 01/22/2020 03:26 WG144651 1-2-Diromog-Chloro	Chloroethane	ND		0.00551	1	01/22/2020 03:26	
Chloromethane N0 0.038 1 01/22/2020 03:26 WG144651 2-Chlorofoluene ND 0.00575 1 01/22/2020 03:26 WG144651 1.2-Dibromo-3-Chloropropane ND 0.00575 1 01/22/2020 03:26 WG144651 1.2-Dibromoethane ND 0.00551 1 01/22/2020 03:26 WG144651 1.2-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WG144651 1.3-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WG144651 1.3-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WG144651 1.4-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WG144651 1.4-Dichlorobenzene ND 0.00275 1 01/22/2020 03:26 WG144651 1.4-Dichlorobenzene ND 0.00275 1 01/22/2020 03:26 WG144651 1.4-Dichlorobenzene ND 0.00275 1 01/22/2020 03:26 WG144651 1.2-Dichlorobenzene ND							
2-Chlorotoluene ND 0.00275 1 01/22/020 03-26 WGMH651 4-Chlorotoluene ND 0.00551 1 01/22/020 03-26 WGMH651 1.2-Dibroma-Chloropropane ND 0.0275 1 01/22/020 03-26 WGMH651 1.2-Dibromoethane ND 0.00551 1 01/22/020 03-26 WGMH651 1.2-Dichlorobenzene ND 0.00551 1 01/22/020 03-26 WGMH651 1.3-Dichlorobenzene ND 0.00551 1 01/22/020 03-26 WGMH651 1.4-Dichlorobenzene ND 0.00551 1 01/22/020 03-26 WGMH651 1.4-Dichlorobenzene ND 0.00275 1 01/22/020 03-26 WGMH651 1.4-Dichlorobenzene ND 0.00275 1 01/22/020 03-26 WGMH651 1.2-Dichlorobenzene ND 0.00275 1 01/22/020 03-26 WGMH651 1.2-Dichlorobenzene ND 0.00275 1 01/22/020 03-26 WGMH651 1.2-Dichlorobenzene ND 0.00275					1		
4-Chlorotoluene ND 0.00551 1 0.12/2020 03:26 WGIMBGS 12-Dibromo-3-Chioropropane ND 0.00275 1 0.0222020 03:26 WGIMBGS 12-Dibromoethane ND 0.00275 1 0.1222020 03:26 WGIAMBGS 12-Dichlorobenzene ND 0.00551 1 0.1227020 03:26 WGIAMBGS 13-Dichlorobenzene ND 0.00551 1 0.1227020 03:26 WGIAMBGS 14-Dichlorobenzene ND 0.00551 1 0.1227020 03:26 WGIAMBGS 14-Dichlorobenzene ND 0.00551 1 0.1222020 03:26 WGIAMBGS 14-Dichlorobenzene ND 0.00275 1 0.1222020 03:26 WGIAMBGS 15-Dichlorobenzene ND 0.00551	2-Chlorotoluene				1		
1.2-Dibromo-3-Chloropropane ND 0.0275 1 0122/2020 0326 WGH44651 1.2-Dibromoethane ND 0.00275 1 0122/2020 0326 WGH44651 1.2-Dichlorobenzene ND 0.00551 1 0122/2020 0326 WGH44651 1.3-Dichlorobenzene ND 0.00551 1 0122/2020 0326 WGH4651 1.4-Dichlorobenzene ND 0.00551 1 0122/2020 0326 WGH4651 1.4-Dichlorobenzene ND 0.00275 1 0122/2020 0326 WGH4651 1.4-Dichlorobenzene ND 0.00275 1 0122/2020 0326 WGH4651 1.4-Dichlorobenzene ND 0.00275 1 0122/2020 0326 WGH4651 1.2-Dichlorobenzene ND 0.00275 1 0122/2020 0326 WGH4661 1.2-Dichlorobenzene ND 0.00275 1 0122/2020 0326 WGH4661 1.2-Dichlorobenzene ND 0.00275 1 0122/2020 0326 WGH4661 1.2-Dichloropenzene ND 0.00251 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1.2. Dibromoethane ND 0.00275 1 01/22/2020 03:26 WGI414651 Dibromenthane ND 0.00551 1 01/22/2020 03:26 WGI414651 1.2. Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WGI414651 1.3. Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WGI414651 1.4. Dichlorobenzene ND 0.00275 1 01/22/2020 03:26 WGI414651 1.4. Dichloroethane ND 0.00275 1 01/22/2020 03:26 WGI414651 1.4. Dichloroptone ND 0.00275 1 01/22/2020 03:26 WGI414651 1.2. Dichloroptopane ND 0.00275 1 01/22/2020 03:26 WGI414651 1.2. Dichloroptopane <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Dibromomethane ND 0.00551 1 01/22/2020 03:26 W5414651 1.2-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 W5414651 1.4-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 W5414651 1.4-Dichlorobenzene ND 0.00275 1 01/22/2020 03:26 W5414651 1.1-Dichloroethane ND 0.00275 1 01/22/2020 03:26 W5414651 1.1-Dichloroptopane ND 0.00275 1 01/22/2020 03:26 W5414651 1.2-Dichloroptopane ND 0.00275 1 01/22/2020 03:26 W5414651 1.3-Dichloroptopane ND							
1,2-Dichlorobenzene ND 0.00551 1 0122/2020 03:26 WG144655 1,3-Dichlorobenzene ND 0.00551 1 0122/2020 03:26 WG144655 1,4-Dichlorobenzene ND 0.00551 1 0122/2020 03:26 WG144655 1,1-Dichloroethane ND 0.00275 1 0122/2020 03:26 WG144655 1,1-Dichloroethane ND 0.00251 1 0122/2020 03:26 WG144655 1,2-Dichloropropane ND 0.00551 1 0122/2020 03:26 WG144651 1,2-Dichloropropane ND 0.00275 1 0122/2020 03:26 WG144651 1,1-Dichloropropane ND 0.0	,						
1,3-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 1,4-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Dichlorodifluoromethane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,2-Dichloroethane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,1-Dichloroethane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,1-Dichloroethane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,1-Dichloroethane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,1-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 1,2-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane							
1,4-Dichlorobenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Dichlorodifluromethane ND 0.00275 1 01/22/2020 03:26 WG141651 1,1-Dichloroethane ND 0.00275 1 01/22/2020 03:26 WG141651 1,2-Dichloroethane ND 0.00275 1 01/22/2020 03:26 WG141651 1,2-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG141651 1,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG141651 1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG141651 1,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG141651 1,2-Dichloropropane ND	•						
Dichlorodiffluoromethane ND 0.00275 1 0/22/2020 03:26 WG144651 1,1-Dichlorocethane ND 0.00275 1 0/22/2020 03:26 WG144651 1,2-Dichlorocethane ND 0.00275 1 0/22/2020 03:26 WG144651 1,1-Dichlorocethane ND 0.00551 1 0/22/2020 03:26 WG144651 1,1-Dichloropropane ND 0.00275 1 0/22/2020 03:26 WG14							
1,1-Dichloroethane ND 0.00275 1 0/22/2020 03:26 WGH14651 1,2-Dichloroethane ND 0.00275 1 0/22/2020 03:26 WGH14651 1,1-Dichloroethene ND 0.00275 1 0/22/2020 03:26 WGH14651 cis-1,2-Dichloroethene ND 0.00275 1 0/22/2020 03:26 WGH14651 tis-ans-1,2-Dichloroethene ND 0.00551 1 0/22/2020 03:26 WGH14651 1,2-Dichloropropane ND 0.00551 1 0/22/2020 03:26 WGH14651 1,3-Dichloropropane ND 0.00275 1 0/22/2020 03:26 WGH14651 1,3-Dichloropropane ND 0.00275 1 0/22/2020 03:26 WGH14651 1,3-Dichloropropane ND 0.00275 1 0/22/2020 03:26 WGH14651 2,2-Dichloropropane ND 0.00275 1 0/22/2020 03:26 WGH14651 Di-isopropyl ether ND 0.00275 1 0/22/2020 03:26 WGH14651 Hexachloro-1,3-butadiene ND <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1,2-Dichloroethane ND 0.00275 1 01/22/2020 03:26 WGI414651 1,1-Dichloroethene ND 0.00275 1 01/22/2020 03:26 WG1414651 cis-1,2-Dichloroethene ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,2-Dichloroethene ND 0.00551 1 01/22/2020 03:26 WG1414651 1,2-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 cis-1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Di-isopropyle ther ND 0.00275 1 01/22/2020 03:26 WG1414651 Isopropyleb							
1,1-Dichloroethene ND 0.00275 1 01/22/2020 03:26 WG1414651 cis-1,2-Dichloroethene ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,2-Dichloroethene ND 0.00551 1 01/22/2020 03:26 WG1414651 1,2-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 1,1-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 bi-sopropyletheren ND 0.00275 1 01/22/2020 03:26 WG1414651 Is							
cis-1,2-Dichloroethene ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,2-Dichloroethene ND 0.00551 1 01/22/2020 03:26 WG1414651 1,2-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 cis-1,3-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 vans-1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 2,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00110 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Septraphylbenzene <							
trans-1,2-Dichloroethene ND 0.00551 1 01/22/2020 03:26 WG1414651 1,2-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 cis-1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Di-isopropyle ether ND 0.00275 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Hexachloro-1,3-butadiene ND 0.00275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Jesuporopyltolue							
1,2-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 1,1-Dichloropropene ND 0.00275 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 cis-1,3-Dichloropropene ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropene ND 0.00551 1 01/22/2020 03:26 WG1414651 2,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Di-isopropyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Isopropylbeluene ND 0.00275 1 01/22/2020 03:26 WG1414651 P-Butanone (MEK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyler Chloride ND <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1,1-Dichloropropene ND 0.00275 1 01/22/2020 03:26 WG1414651 1,3-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 cis-1,3-Dichloropropene ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropene ND 0.00551 1 01/22/2020 03:26 WG1414651 2,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Di-isopropyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Hexachloro-1,3-butadiene ND 0.00275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Isopropylbeluene ND 0.00275 1 01/22/2020 03:26 WG1414651 P-Butanone (MEK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyler Chloride							
1.3-Dichloropropane ND 0.00551 1 01/22/2020 03:26 WG1414651 cis-1,3-Dichloropropene ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropene ND 0.00551 1 01/22/2020 03:26 WG1414651 2,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Di-isopropyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Hexachloro-1,3-butadiene ND 0.0275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.0275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 P-Isopropylbenzene ND 0.0275 1 01/22/2020 03:26 WG1414651 P-Isopropylbenzene ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl-2-pentanone (MIBK)							
cis-1,3-Dichloropropene ND 0.00275 1 01/22/2020 03:26 WG1414651 trans-1,3-Dichloropropene ND 0.00551 1 01/22/2020 03:26 WG1414651 2,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Di-isopropyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Hexachloro-1,3-butadiene ND 0.0275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 P-Isopropyltoluene ND 0.00275 1 01/22/2020 03:26 WG1414651 2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
trans-1,3-Dichloropropene ND 0.00551 1 01/22/2020 03:26 WG1414651 2,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Di-isopropyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Hexachloro-1,3-butadiene ND 0.0275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 p-Isopropyltoluene ND 0.00275 1 01/22/2020 03:26 WG1414651 2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene	, ,						
2,2-Dichloropropane ND 0.00275 1 01/22/2020 03:26 WG1414651 Di-isopropyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Hexachloro-1,3-butadiene ND 0.0275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 p-Isopropyltoluene ND 0.00551 1 01/22/2020 03:26 WG1414651 2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 ND 0.00551	7 1 1						
Di-isopropyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Hexachloro-1,3-butadiene ND 0.0275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 p-Isopropyltoluene ND 0.00551 1 01/22/2020 03:26 WG1414651 2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 ND 0.00551 1 01/22/2020 03:26 WG1414651 Tyrene ND 0.0138 1							
Ethylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 Hexachloro-1,3-butadiene ND 0.0275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 p-Isopropyltoluene ND 0.00551 1 01/22/2020 03:26 WG1414651 2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 NP 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
Hexachloro-1,3-butadiene ND 0.0275 1 01/22/2020 03:26 WG1414651 Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 p-Isopropyltoluene ND 0.00551 1 01/22/2020 03:26 WG1414651 2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
Isopropylbenzene ND 0.00275 1 01/22/2020 03:26 WG1414651 p-Isopropyltoluene ND 0.00551 1 01/22/2020 03:26 WG1414651 2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
p-Isopropyltoluene ND 0.00551 1 01/22/2020 03:26 WG1414651 2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
2-Butanone (MEK) 0.0275 0.0275 1 01/22/2020 03:26 WG1414651 Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
Methylene Chloride ND 0.0275 1 01/22/2020 03:26 WG1414651 4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
4-Methyl-2-pentanone (MIBK) ND 0.0275 1 01/22/2020 03:26 WG1414651 Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
Methyl tert-butyl ether ND 0.00110 1 01/22/2020 03:26 WG1414651 Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
Naphthalene ND 0.0138 1 01/22/2020 03:26 WG1414651 n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
n-Propylbenzene ND 0.00551 1 01/22/2020 03:26 WG1414651 Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651							
Styrene ND 0.0138 1 01/22/2020 03:26 WG1414651	·						
·							
1,1,1,2-1 Cuacino Octatal C ND 0.002/3 1 01/22/2020 03:20 W01414031	•						
	1,1,1,2-10110110101011111111111111111111	NU		0.00273		0112212020 03.20	WUTHTION

ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:30

L1181249

	`	, ,				
	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
1,1,2,2-Tetrachloroethane	ND		0.00275	1	01/22/2020 03:26	WG1414651
1,1,2-Trichlorotrifluoroethane	ND		0.00275	1	01/22/2020 03:26	WG1414651
Tetrachloroethene	0.0135		0.00275	1	01/22/2020 03:26	WG1414651
Toluene	ND		0.00551	1	01/22/2020 03:26	WG1414651
1,2,3-Trichlorobenzene	ND		0.0138	1	01/22/2020 03:26	WG1414651
1,2,4-Trichlorobenzene	ND		0.0138	1	01/22/2020 03:26	WG1414651
1,1,1-Trichloroethane	ND		0.00275	1	01/22/2020 03:26	WG1414651
1,1,2-Trichloroethane	ND		0.00275	1	01/22/2020 03:26	WG1414651
Trichloroethene	ND		0.00110	1	01/22/2020 03:26	WG1414651
Trichlorofluoromethane	ND		0.00275	1	01/22/2020 03:26	WG1414651
1,2,3-Trichloropropane	ND		0.0138	1	01/22/2020 03:26	WG1414651
1,2,4-Trimethylbenzene	ND		0.00551	1	01/22/2020 03:26	WG1414651
1,2,3-Trimethylbenzene	ND		0.00551	1	01/22/2020 03:26	WG1414651
Vinyl chloride	ND		0.00275	1	01/22/2020 03:26	WG1414651
1,3,5-Trimethylbenzene	ND		0.00551	1	01/22/2020 03:26	WG1414651
Xylenes, Total	ND		0.00716	1	01/22/2020 03:26	WG1414651
(S) Toluene-d8	104		75.0-131		01/22/2020 03:26	WG1414651
(S) 4-Bromofluorobenzene	91.3		67.0-138		01/22/2020 03:26	WG1414651
(S) 1,2-Dichloroethane-d4	97.1		70.0-130		01/22/2020 03:26	WG1414651

















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:40

L1181249

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.3		1	01/21/2020 17:17	WG1414684









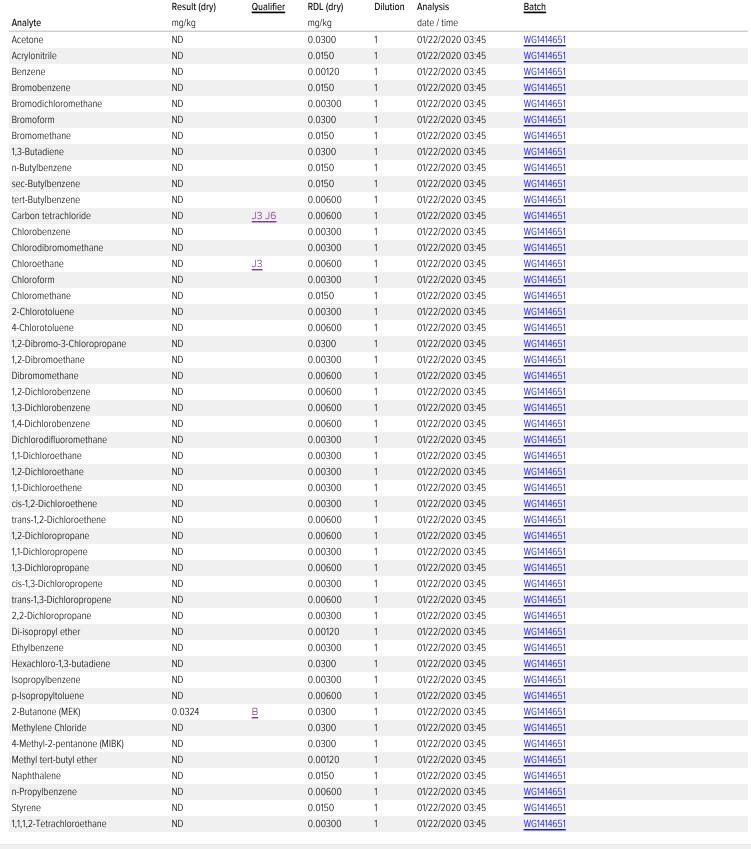












GP2 @ 7'

SAMPLE RESULTS - 04

ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:40

Volatile Organic Compounds (GC/MS) by Method 8260B

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
1,1,2,2-Tetrachloroethane	ND		0.00300	1	01/22/2020 03:45	WG1414651
1,1,2-Trichlorotrifluoroethane	ND	<u>J3</u>	0.00300	1	01/22/2020 03:45	WG1414651
Tetrachloroethene	ND		0.00300	1	01/22/2020 03:45	WG1414651
Toluene	ND		0.00600	1	01/22/2020 03:45	WG1414651
1,2,3-Trichlorobenzene	ND		0.0150	1	01/22/2020 03:45	WG1414651
1,2,4-Trichlorobenzene	ND		0.0150	1	01/22/2020 03:45	WG1414651
1,1,1-Trichloroethane	ND		0.00300	1	01/22/2020 03:45	WG1414651
1,1,2-Trichloroethane	ND		0.00300	1	01/22/2020 03:45	WG1414651
Trichloroethene	ND		0.00120	1	01/22/2020 03:45	WG1414651
Trichlorofluoromethane	ND		0.00300	1	01/22/2020 03:45	WG1414651
1,2,3-Trichloropropane	ND		0.0150	1	01/22/2020 03:45	WG1414651
1,2,4-Trimethylbenzene	ND		0.00600	1	01/22/2020 03:45	WG1414651
1,2,3-Trimethylbenzene	ND		0.00600	1	01/22/2020 03:45	WG1414651
Vinyl chloride	ND		0.00300	1	01/22/2020 03:45	WG1414651
1,3,5-Trimethylbenzene	ND		0.00600	1	01/22/2020 03:45	WG1414651
Xylenes, Total	ND		0.00780	1	01/22/2020 03:45	WG1414651
(S) Toluene-d8	105		75.0-131		01/22/2020 03:45	WG1414651
(S) 4-Bromofluorobenzene	89.3		67.0-138		01/22/2020 03:45	WG1414651
(S) 1,2-Dichloroethane-d4	95.6		70.0-130		01/22/2020 03:45	WG1414651

















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 09:50

Volatile Organic Compounds (GC/MS) by Method 8260B

Volatile Organic Compot	•					
Analyto	Result	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Analyte	mg/l ND		mg/l 0.0500	1	01/21/2020 15:36	WG1414558
Acetone				1		WG1414558
Acrolein Acrylonitrile	ND ND		0.0500	1	01/21/2020 15:36 01/21/2020 15:36	WG1414558
	ND ND		0.0100	1	01/21/2020 15:36	WG1414558
Benzene Bromobenzene	ND	14	0.00100	1	01/21/2020 15:36	WG1414558
Bromodichloromethane	ND ND	<u>J4</u>	0.00100	1	01/21/2020 15:36	WG1414558
Bromoform	ND		0.00100	1	01/21/2020 15:36	WG1414558
Bromomethane	ND		0.00500	1	01/21/2020 15:36	WG1414558
1,3-Butadiene	ND		0.00300	1	01/21/2020 15:36	WG1414558
n-Butylbenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
sec-Butylbenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
tert-Butylbenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
Carbon tetrachloride	ND		0.00100	1	01/21/2020 15:36	WG1414558
Chlorobenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
Chlorodibromomethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
Chloroethane	ND		0.00500	1	01/21/2020 15:36	WG1414558
Chloroform	ND		0.00500	1	01/21/2020 15:36	WG1414558
Chloromethane	ND		0.00300	1	01/21/2020 15:36	WG1414558
2-Chlorotoluene	ND		0.00230	1	01/21/2020 15:36	WG1414558
4-Chlorotoluene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,2-Dibromo-3-Chloropropane	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,2-Dibromoethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
Dibromomethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,2-Dichlorobenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,3-Dichlorobenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,4-Dichlorobenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
Dichlorodifluoromethane	ND		0.00500	1	01/21/2020 15:36	WG1414558
1,1-Dichloroethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,2-Dichloroethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,1-Dichloroethene	ND		0.00100	1	01/21/2020 15:36	WG1414558
cis-1,2-Dichloroethene	ND		0.00100	1	01/21/2020 15:36	WG1414558
trans-1,2-Dichloroethene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,2-Dichloropropane	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,1-Dichloropropene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,3-Dichloropropane	ND		0.00100	1	01/21/2020 15:36	WG1414558
cis-1,3-Dichloropropene	ND		0.00100	1	01/21/2020 15:36	WG1414558
trans-1,3-Dichloropropene	ND		0.00100	1	01/21/2020 15:36	WG1414558
2,2-Dichloropropane	ND		0.00100	1	01/21/2020 15:36	WG1414558
Di-isopropyl ether	ND		0.00100	1	01/21/2020 15:36	WG1414558
Ethylbenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
Hexachloro-1,3-butadiene	ND		0.00100	1	01/21/2020 15:36	WG1414558
Isopropylbenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
p-lsopropyltoluene	ND		0.00100	1	01/21/2020 15:36	WG1414558
2-Butanone (MEK)	ND		0.0100	1	01/21/2020 15:36	WG1414558
Methylene Chloride	ND		0.00500	1	01/21/2020 15:36	WG1414558
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	01/21/2020 15:36	WG1414558
Methyl tert-butyl ether	ND		0.00100	1	01/21/2020 15:36	WG1414558
Naphthalene	ND		0.00500	1	01/21/2020 15:36	WG1414558
n-Propylbenzene	ND	<u>J4</u>	0.00100	1	01/21/2020 15:36	WG1414558
Styrene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,1,1,2-Tetrachloroethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,1,2,2-Tetrachloroethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
Tetrachloroethene	0.0422		0.00100	1	01/21/2020 15:36	WG1414558
Toluene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,2,3-Trichlorobenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
, ,	-			•		



Ss

Cn

СQс

Gl

Sc

ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 09:50

L1181249

Volatile Organic Compounds (GC/MS) by Method 8260B

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l		date / time	
1,2,4-Trichlorobenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,1,1-Trichloroethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,1,2-Trichloroethane	ND		0.00100	1	01/21/2020 15:36	WG1414558
Trichloroethene	ND		0.00100	1	01/21/2020 15:36	WG1414558
Trichlorofluoromethane	ND		0.00500	1	01/21/2020 15:36	WG1414558
1,2,3-Trichloropropane	ND		0.00250	1	01/21/2020 15:36	WG1414558
1,2,4-Trimethylbenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,2,3-Trimethylbenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
1,3,5-Trimethylbenzene	ND		0.00100	1	01/21/2020 15:36	WG1414558
Vinyl chloride	ND		0.00100	1	01/21/2020 15:36	WG1414558
Xylenes, Total	ND		0.00300	1	01/21/2020 15:36	WG1414558
(S) Toluene-d8	97.0		80.0-120		01/21/2020 15:36	WG1414558
(S) 4-Bromofluorobenzene	92.1		77.0-126		01/21/2020 15:36	WG1414558
(S) 1,2-Dichloroethane-d4	104		70.0-130		01/21/2020 15:36	WG1414558



















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:50

L1181249

Volatile Organic Compounds (GC/MS) by Method 8260B

Volatile Organic Com					Amalusis	Datah
Analyto	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Analyte				1		WC4444FFO
Acetone	ND		0.0500	1	01/21/2020 15:56	WG1414558
Acrolein	ND		0.0500	1	01/21/2020 15:56	WG1414558
Acrylonitrile	ND		0.0100	1	01/21/2020 15:56	WG1414558
Benzene	ND	1.4	0.00100	1	01/21/2020 15:56	WG1414558
Bromobenzene	ND	<u>J4</u>	0.00100	1	01/21/2020 15:56	WG1414558
Bromodichloromethane	ND		0.00100	1	01/21/2020 15:56	WG1414558
Bromoform	ND		0.00100	1	01/21/2020 15:56	WG1414558
Bromomethane	ND		0.00500	1	01/21/2020 15:56	WG1414558
1,3-Butadiene	ND		0.00200	1	01/21/2020 15:56	WG1414558
n-Butylbenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
sec-Butylbenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
tert-Butylbenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
Carbon tetrachloride	ND		0.00100	1	01/21/2020 15:56	WG1414558
Chlorobenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
Chlorodibromomethane	ND		0.00100	1	01/21/2020 15:56	WG1414558
Chloroethane	ND		0.00500	1	01/21/2020 15:56	WG1414558
Chloroform	ND		0.00500	1	01/21/2020 15:56	WG1414558
Chloromethane	ND		0.00250	1	01/21/2020 15:56	WG1414558
2-Chlorotoluene	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
4-Chlorotoluene	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	01/21/2020 15:56	<u>WG1414558</u>
1,2-Dibromoethane	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
Dibromomethane	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,2-Dichlorobenzene	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,3-Dichlorobenzene	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,4-Dichlorobenzene	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
Dichlorodifluoromethane	ND		0.00500	1	01/21/2020 15:56	<u>WG1414558</u>
1,1-Dichloroethane	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,2-Dichloroethane	ND		0.00100	1	01/21/2020 15:56	WG1414558
1,1-Dichloroethene	ND		0.00100	1	01/21/2020 15:56	WG1414558
cis-1,2-Dichloroethene	ND		0.00100	1	01/21/2020 15:56	WG1414558
trans-1,2-Dichloroethene	ND		0.00100	1	01/21/2020 15:56	WG1414558
1,2-Dichloropropane	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,1-Dichloropropene	ND		0.00100	1	01/21/2020 15:56	WG1414558
1,3-Dichloropropane	ND		0.00100	1	01/21/2020 15:56	WG1414558
cis-1,3-Dichloropropene	ND		0.00100	1	01/21/2020 15:56	WG1414558
trans-1,3-Dichloropropene	ND		0.00100	1	01/21/2020 15:56	WG1414558
2,2-Dichloropropane	ND		0.00100	1	01/21/2020 15:56	WG1414558
Di-isopropyl ether	ND		0.00100	1	01/21/2020 15:56	WG1414558
Ethylbenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
Hexachloro-1,3-butadiene	ND		0.00100	1	01/21/2020 15:56	WG1414558
Isopropylbenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
p-Isopropyltoluene	ND		0.00100	1	01/21/2020 15:56	WG1414558
2-Butanone (MEK)	ND		0.0100	1	01/21/2020 15:56	<u>WG1414558</u>
Methylene Chloride	ND		0.00500	1	01/21/2020 15:56	WG1414558
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	01/21/2020 15:56	WG1414558
Methyl tert-butyl ether	ND		0.00100	1	01/21/2020 15:56	WG1414558
Naphthalene	ND		0.00500	1	01/21/2020 15:56	<u>WG1414558</u>
n-Propylbenzene	ND	<u>J4</u>	0.00100	1	01/21/2020 15:56	WG1414558
Styrene	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,1,1,2-Tetrachloroethane	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,1,2,2-Tetrachloroethane	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
Tetrachloroethene	0.00661		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
Toluene	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>
1,2,3-Trichlorobenzene	ND		0.00100	1	01/21/2020 15:56	<u>WG1414558</u>



Ss

Cn

СQс

Gl

Sc

ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:50

L1181249

Volatile Organic Compounds (GC/MS) by Method 8260B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
1,2,4-Trichlorobenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
1,1,1-Trichloroethane	ND		0.00100	1	01/21/2020 15:56	WG1414558
1,1,2-Trichloroethane	ND		0.00100	1	01/21/2020 15:56	WG1414558
Trichloroethene	ND		0.00100	1	01/21/2020 15:56	WG1414558
Trichlorofluoromethane	ND		0.00500	1	01/21/2020 15:56	WG1414558
1,2,3-Trichloropropane	ND		0.00250	1	01/21/2020 15:56	WG1414558
1,2,4-Trimethylbenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
1,2,3-Trimethylbenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
1,3,5-Trimethylbenzene	ND		0.00100	1	01/21/2020 15:56	WG1414558
Vinyl chloride	ND		0.00100	1	01/21/2020 15:56	WG1414558
Xylenes, Total	ND		0.00300	1	01/21/2020 15:56	WG1414558
(S) Toluene-d8	95.8		80.0-120		01/21/2020 15:56	WG1414558
(S) 4-Bromofluorobenzene	93.4		77.0-126		01/21/2020 15:56	WG1414558
(S) 1,2-Dichloroethane-d4	105		70.0-130		01/21/2020 15:56	WG1414558

















ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

L1181249-01,02,03,04

Method Blank (MB)

(MB) R3492868-1 01/	21/20 17:17			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			



Ss

L1180739-01 Original Sample (OS) • Duplicate (DUP)

(AC) I 110A72A A1	$0.1/21/20.17 \cdot 17$	(DUP) R3492868-3	01/21/2017.17
(U3) L110U/39-U1	01/21/2017.17 •	(DOF) K3432000-3	01/21/20 17.17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.9	87.1	1	1.34		10



Laboratory Control Sample (LCS)

(LCS)	R3492868-2	01/21/20	17:17

(LC3) R3492000-2 01/21/2	Spike Amount		LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	%	
Total Solids	50.0	50	50.0	100	85.0-115	





ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-05,06

Method Blank (MB)

Method Blank (MB)				
(MB) R3492655-2 01/21/20) 11:49			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
1,3-Butadiene	U		0.000330	0.00200
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000333	0.00100
Chlorobenzene	U		0.000373	0.00100
Chlorodibromomethane	U		0.000348	0.00100
Chloroethane	U		0.000327	0.00500
Chloroform	U		0.000453	0.00500
Chloromethane	U		0.000324	0.00300
2-Chlorotoluene	U		0.000276	0.00250
4-Chlorotoluene				
	U		0.000351 0.00133	0.00100 0.00500
	U			
1,2-Dibromoethane	U		0.000381	0.00100 0.00100
Dibromomethane	U		0.000346	
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100

















ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-05,06

Method Blank (MB)

(MB) R3492655-2 01/21/2	0 11:49				- L'
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	-
Hexachloro-1,3-butadiene	U		0.000256	0.00100	· <u>-</u>
Isopropylbenzene	U		0.000326	0.00100	3
p-Isopropyltoluene	U		0.000350	0.00100	Ľ
2-Butanone (MEK)	U		0.00393	0.0100	4
Methylene Chloride	U		0.00100	0.00500	- I '
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	
Methyl tert-butyl ether	U		0.000367	0.00100	5
Naphthalene	U		0.00100	0.00500	L
n-Propylbenzene	U		0.000349	0.00100	6
Styrene	U		0.000307	0.00100	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	7
Tetrachloroethene	U		0.000372	0.00100	L
Toluene	U		0.000412	0.00100	8
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	- I
1,2,3-Trichlorobenzene	U		0.000230	0.00100	
1,2,4-Trichlorobenzene	U		0.000355	0.00100	9
1,1,1-Trichloroethane	U		0.000319	0.00100	L
1,1,2-Trichloroethane	U		0.000383	0.00100	
Trichloroethene	U		0.000398	0.00100	
Trichlorofluoromethane	U		0.00120	0.00500	
1,2,3-Trichloropropane	U		0.000807	0.00250	
1,2,3-Trimethylbenzene	U		0.000321	0.00100	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	
Vinyl chloride	U		0.000259	0.00100	
Xylenes, Total	U		0.00106	0.00300	
(S) Toluene-d8	97.0			80.0-120	
(S) 4-Bromofluorobenzene	88.2			77.0-126	

Laboratory Control Sample (LCS)

(S) 1,2-Dichloroethane-d4

(LCS) R3492655-1 01/21/	CS) R3492655-1 01/21/20 11:09								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	mg/l	mg/l	%	%					
Acetone	0.0250	0.0282	113	19.0-160					
Acrolein	0.0250	0.0232	92.8	10.0-160					
Acrylonitrile	0.0250	0.0240	96.0	55.0-149					

70.0-130

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-05,06

Laboratory Control	Sample (Lo	CS)					
(LCS) R3492655-1 01/21/2	0 11:09						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%			
Benzene	0.00500	0.00548	110	70.0-123			
Bromobenzene	0.00500	0.00628	126	73.0-121	<u>J4</u>		
Bromodichloromethane	0.00500	0.00521	104	75.0-120			
Bromoform	0.00500	0.00405	81.0	68.0-132			
Bromomethane	0.00500	0.00431	86.2	10.0-160			
1,3-Butadiene	0.00500	0.00492	98.4	45.0-147			
n-Butylbenzene	0.00500	0.00523	105	73.0-125			
sec-Butylbenzene	0.00500	0.00545	109	75.0-125			
tert-Butylbenzene	0.00500	0.00572	114	76.0-124			
Carbon tetrachloride	0.00500	0.00532	106	68.0-126			
Chlorobenzene	0.00500	0.00485	97.0	80.0-121			
Chlorodibromomethane	0.00500	0.00465	93.0	77.0-125			
Chloroethane	0.00500	0.00445	89.0	47.0-150			
Chloroform	0.00500	0.00535	107	73.0-120			
Chloromethane	0.00500	0.00597	119	41.0-142			
2-Chlorotoluene	0.00500	0.00569	114	76.0-123			
4-Chlorotoluene	0.00500	0.00560	112	75.0-122			
1,2-Dibromo-3-Chloropropane	0.00500	0.00393	78.6	58.0-134			
1,2-Dibromoethane	0.00500	0.00469	93.8	80.0-122			
Dibromomethane	0.00500	0.00486	97.2	80.0-120			
1,2-Dichlorobenzene	0.00500	0.00492	98.4	79.0-121			
1,3-Dichlorobenzene	0.00500	0.00528	106	79.0-120			
1,4-Dichlorobenzene	0.00500	0.00521	104	79.0-120			
Dichlorodifluoromethane	0.00500	0.00536	107	51.0-149			
1,1-Dichloroethane	0.00500	0.00543	109	70.0-126			
1,2-Dichloroethane	0.00500	0.00553	111	70.0-128			
1,1-Dichloroethene	0.00500	0.00474	94.8	71.0-124			
cis-1,2-Dichloroethene	0.00500	0.00463	92.6	73.0-120			
trans-1,2-Dichloroethene	0.00500	0.00473	94.6	73.0-120			
1,2-Dichloropropane	0.00500	0.00551	110	77.0-120			
1,1-Dichloropropene	0.00500	0.00531	110	74.0-126			
1,3-Dichloropropane	0.00500	0.00549	110	80.0-120			
cis-1,3-Dichloropropene	0.00500	0.00532	109	80.0-120			
trans-1,3-Dichloropropene	0.00500	0.00546	107	78.0-124			
2,2-Dichloropropane	0.00500	0.00537	107	58.0-130			
Di-isopropyl ether	0.00500	0.00537	105	58.0-138			
Ethylbenzene	0.00500	0.00323	95.6	79.0-123			
Hexachloro-1,3-butadiene	0.00500	0.00478	82.4	54.0-138			
Isopropylbenzene	0.00500	0.00412	98.8	76.0-127			
p-Isopropyltoluene	0.00500	0.00494	107	76.0-127			
p-isopropyitoidene	0.00000	0.00000	107	70.0-125			





(S) 4-Bromofluorobenzene

(S) 1,2-Dichloroethane-d4

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-05,06

Laboratory Control Sample (LCS)

(LCS) R3492655-1 01/21/2	20 11:09					_ `
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	2
Analyte	mg/l	mg/l	%	%		-
2-Butanone (MEK)	0.0250	0.0274	110	44.0-160		
Methylene Chloride	0.00500	0.00507	101	67.0-120		3
4-Methyl-2-pentanone (MIBK)	0.0250	0.0239	95.6	68.0-142		
Methyl tert-butyl ether	0.00500	0.00535	107	68.0-125		4
Naphthalene	0.00500	0.00351	70.2	54.0-135		4
n-Propylbenzene	0.00500	0.00710	142	77.0-124	<u>J4</u>	
Styrene	0.00500	0.00479	95.8	73.0-130		5
1,1,1,2-Tetrachloroethane	0.00500	0.00435	87.0	75.0-125		- L
1,1,2,2-Tetrachloroethane	0.00500	0.00524	105	65.0-130		6
Tetrachloroethene	0.00500	0.00566	113	72.0-132		
Toluene	0.00500	0.00504	101	79.0-120		
1,1,2-Trichlorotrifluoroethane	0.00500	0.00435	87.0	69.0-132		7
1,2,3-Trichlorobenzene	0.00500	0.00305	61.0	50.0-138		
1,2,4-Trichlorobenzene	0.00500	0.00403	80.6	57.0-137		8
1,1,1-Trichloroethane	0.00500	0.00525	105	73.0-124		
1,1,2-Trichloroethane	0.00500	0.00504	101	80.0-120		
Trichloroethene	0.00500	0.00475	95.0	78.0-124		9
Trichlorofluoromethane	0.00500	0.00451	90.2	59.0-147		_ L
1,2,3-Trichloropropane	0.00500	0.00495	99.0	73.0-130		
1,2,3-Trimethylbenzene	0.00500	0.00519	104	77.0-120		
1,2,4-Trimethylbenzene	0.00500	0.00540	108	76.0-121		
1,3,5-Trimethylbenzene	0.00500	0.00522	104	76.0-122		
Vinyl chloride	0.00500	0.00539	108	67.0-131		
Xylenes, Total	0.0150	0.0143	95.3	79.0-123		
(S) Toluene-d8			98.3	80.0-120		



93.7

104

77.0-126

70.0-130

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-01,02,03,04

Method Blank (MB)

Method Blank (MB)				
(MB) R3492829-3 01/21/20	21:25			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
1,3-Butadiene	U		0.00843	0.0250
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	0.000725	<u>J</u>	0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250



ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-01,02,03,04

Method Blank (MB)

(MB) R3492829-3 01/21/2	0 21:25				- L
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	
Isopropylbenzene	U		0.000863	0.00250	·
p-Isopropyltoluene	U		0.00233	0.00500	3
2-Butanone (MEK)	0.0351		0.0125	0.0250	
Methylene Chloride	U		0.00664	0.0250	4
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250	
Methyl tert-butyl ether	U		0.000295	0.00100	
Naphthalene	U		0.00312	0.0125	5
n-Propylbenzene	U		0.00118	0.00500	L
Styrene	U		0.00273	0.0125	6
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250	
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250	
Tetrachloroethene	U		0.000700	0.00250	7
Toluene	U		0.00125	0.00500	L
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250	8
1,2,3-Trichlorobenzene	U		0.000625	0.0125	
1,2,4-Trichlorobenzene	U		0.00482	0.0125	
1,1,1-Trichloroethane	U		0.000275	0.00250	9
1,1,2-Trichloroethane	U		0.000883	0.00250	L
Trichloroethene	U		0.000400	0.00100	
Trichlorofluoromethane	U		0.000500	0.00250	
1,2,3-Trichloropropane	U		0.00510	0.0125	
1,2,3-Trimethylbenzene	U		0.00115	0.00500	
1,2,4-Trimethylbenzene	U		0.00116	0.00500	
1,3,5-Trimethylbenzene	U		0.00108	0.00500	
Vinyl chloride	U		0.000683	0.00250	
Xylenes, Total	U		0.00478	0.00650	
(S) Toluene-d8	105			75.0-131	
(S) 4-Bromofluorobenzene	90.7			67.0-138	

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

70.0-130

96.5

(S) 1,2-Dichloroethane-d4

(LCS) R3492829-1 01/21/2	0 20:09 • (LCS	D) R3492829-	2 01/21/20 20:	27						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Acetone	0.625	0.596	0.383	95.4	61.3	10.0-160		<u>J3</u>	43.5	31
Acrylonitrile	0.625	0.565	0.655	90.4	105	45.0-153			14.8	22
Benzene	0.125	0.111	0.121	88.8	96.8	70.0-123			8.62	20
Bromobenzene	0.125	0.130	0.142	104	114	73.0-121			8.82	20

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-01,02,03,04

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

(LCS) R3492829-1 01/21/20 20:09 • (LCSD) R3492829-2 01/21/20 20:27

(LCS) R3492829-1 01/21/2										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Bromodichloromethane	0.125	0.120	0.131	96.0	105	73.0-121			8.76	20
Bromoform	0.125	0.126	0.133	101	106	64.0-132			5.41	20
Bromomethane	0.125	0.146	0.161	117	129	56.0-147			9.77	20
1,3-Butadiene	0.125	0.132	0.147	106	118	32.0-150			10.8	20
n-Butylbenzene	0.125	0.141	0.152	113	122	68.0-135			7.51	20
sec-Butylbenzene	0.125	0.135	0.149	108	119	74.0-130			9.86	20
tert-Butylbenzene	0.125	0.135	0.150	108	120	75.0-127			10.5	20
Carbon tetrachloride	0.125	0.138	0.159	110	127	66.0-128			14.1	20
Chlorobenzene	0.125	0.140	0.156	112	125	76.0-128			10.8	20
Chlorodibromomethane	0.125	0.122	0.134	97.6	107	74.0-127			9.38	20
Chloroethane	0.125	0.125	0.140	100	112	61.0-134			11.3	20
Chloroform	0.125	0.0957	0.109	76.6	87.2	72.0-123			13.0	20
Chloromethane	0.125	0.136	0.145	109	116	51.0-138			6.41	20
2-Chlorotoluene	0.125	0.133	0.151	106	121	75.0-124			12.7	20
4-Chlorotoluene	0.125	0.141	0.153	113	122	75.0-124			8.16	20
1,2-Dibromo-3-Chloropropane	0.125	0.117	0.114	93.6	91.2	59.0-130			2.60	20
1,2-Dibromoethane	0.125	0.117	0.128	93.6	102	74.0-128			8.98	20
Dibromomethane	0.125	0.113	0.129	90.4	103	75.0-122			13.2	20
1,2-Dichlorobenzene	0.125	0.117	0.129	93.6	103	76.0-124			9.76	20
1,3-Dichlorobenzene	0.125	0.145	0.154	116	123	76.0-125			6.02	20
1,4-Dichlorobenzene	0.125	0.131	0.138	105	110	77.0-121			5.20	20
Dichlorodifluoromethane	0.125	0.143	0.160	114	128	43.0-156			11.2	20
1,1-Dichloroethane	0.125	0.115	0.127	92.0	102	70.0-127			9.92	20
1,2-Dichloroethane	0.125	0.122	0.135	97.6	108	65.0-131			10.1	20
1,1-Dichloroethene	0.125	0.126	0.144	101	115	65.0-131			13.3	20
cis-1,2-Dichloroethene	0.125	0.100	0.119	80.0	95.2	73.0-125			17.4	20
trans-1,2-Dichloroethene	0.125	0.108	0.123	86.4	98.4	71.0-125			13.0	20
1,2-Dichloropropane	0.125	0.130	0.142	104	114	74.0-125			8.82	20
1,1-Dichloropropene	0.125	0.110	0.123	88.0	98.4	73.0-125			11.2	20
1,3-Dichloropropane	0.125	0.123	0.136	98.4	109	80.0-125			10.0	20
cis-1,3-Dichloropropene	0.125	0.121	0.134	96.8	107	76.0-127			10.2	20
trans-1,3-Dichloropropene	0.125	0.126	0.142	101	114	73.0-127			11.9	20
2,2-Dichloropropane	0.125	0.110	0.123	88.0	98.4	59.0-135			11.2	20
Di-isopropyl ether	0.125	0.102	0.112	81.6	89.6	60.0-136			9.35	20
Ethylbenzene	0.125	0.125	0.141	100	113	74.0-126			12.0	20
Hexachloro-1,3-butadiene	0.125	0.111	0.125	88.8	100	57.0-150			11.9	20
Isopropylbenzene	0.125	0.115	0.129	92.0	103	72.0-127			11.5	20
p-lsopropyltoluene	0.125	0.134	0.149	107	119	72.0-133			10.6	20
2-Butanone (MEK)	0.625	0.560	0.599	89.6	95.8	30.0-160			6.73	24
Methylene Chloride	0.125	0.116	0.134	92.8	107	68.0-123			14.4	20
,										



(S) 4-Bromofluorobenzene

(S) 1,2-Dichloroethane-d4

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

PAGE:

25 of 30

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-01,02,03,04

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

(LCS) R3492829-1 01/21/20 20:09 • (LCSD) R3492829-2 01/21/20 20:27

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
4-Methyl-2-pentanone (MIBK)	0.625	0.632	0.694	101	111	56.0-143			9.35	20	
Methyl tert-butyl ether	0.125	0.0918	0.102	73.4	81.6	66.0-132			10.5	20	
Naphthalene	0.125	0.104	0.110	83.2	88.0	59.0-130			5.61	20	
n-Propylbenzene	0.125	0.134	0.144	107	115	74.0-126			7.19	20	
Styrene	0.125	0.123	0.138	98.4	110	72.0-127			11.5	20	
1,1,1,2-Tetrachloroethane	0.125	0.103	0.113	82.4	90.4	74.0-129			9.26	20	
1,1,2,2-Tetrachloroethane	0.125	0.105	0.113	84.0	90.4	68.0-128			7.34	20	
Tetrachloroethene	0.125	0.122	0.137	97.6	110	70.0-136			11.6	20	
Toluene	0.125	0.124	0.139	99.2	111	75.0-121			11.4	20	
1,1,2-Trichlorotrifluoroethane	0.125	0.121	0.138	96.8	110	61.0-139			13.1	20	
1,2,3-Trichlorobenzene	0.125	0.101	0.104	80.8	83.2	59.0-139			2.93	20	
1,2,4-Trichlorobenzene	0.125	0.120	0.131	96.0	105	62.0-137			8.76	20	
1,1,1-Trichloroethane	0.125	0.109	0.130	87.2	104	69.0-126			17.6	20	
1,1,2-Trichloroethane	0.125	0.105	0.117	84.0	93.6	78.0-123			10.8	20	
Trichloroethene	0.125	0.127	0.146	102	117	76.0-126			13.9	20	
Trichlorofluoromethane	0.125	0.124	0.140	99.2	112	61.0-142			12.1	20	
1,2,3-Trichloropropane	0.125	0.133	0.143	106	114	67.0-129			7.25	20	
1,2,3-Trimethylbenzene	0.125	0.101	0.109	80.8	87.2	74.0-124			7.62	20	
1,2,4-Trimethylbenzene	0.125	0.125	0.136	100	109	70.0-126			8.43	20	
1,3,5-Trimethylbenzene	0.125	0.126	0.136	101	109	73.0-127			7.63	20	
Vinyl chloride	0.125	0.125	0.142	100	114	63.0-134			12.7	20	
Xylenes, Total	0.375	0.352	0.383	93.9	102	72.0-127			8.44	20	
(S) Toluene-d8				103	106	75.0-131					

L1181249-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

93.9

101

93.4

101

(OS) L1181249-04 01/22/20 03:45 • (MS) R3492829-4 01/22/20 04:04 • (MSD) R3492829-5 01/22/20 04:24

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Acetone	0.750	ND	0.631	0.543	84.2	72.5	1	10.0-160			14.9	40
Acrylonitrile	0.750	ND	0.729	0.687	97.3	91.7	1	10.0-160			5.93	40
Benzene	0.150	ND	0.113	0.137	75.2	91.2	1	10.0-149			19.2	37
Bromobenzene	0.150	ND	0.156	0.173	104	115	1	10.0-156			10.2	38
Bromodichloromethane	0.150	ND	0.130	0.143	86.4	95.2	1	10.0-143			9.69	37
Bromoform	0.150	ND	0.138	0.148	92.0	98.4	1	10.0-146			6.72	36
Bromomethane	0.150	ND	0.0607	0.0798	40.5	53.2	1	10.0-149			27.2	38
1,3-Butadiene	0.150	ND	0.0843	0.112	56.2	74.4	1	10.0-137			27.8	36

67.0-138

70.0-130

 ACCOUNT:
 PROJECT:
 SDG:
 DATE/TIME:

 Applied GeoTech
 1200034
 L1181249
 01/22/20 14:13

Naphthalene

0.150

ND

0.118

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-01,02,03,04

L1181249-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1181249-04 01/22/20 03:45 • (MS) R3492829-4 01/22/20 04:04 • (MSD) R3492829-5 01/22/20 04:24

		ŀ
icate (MSD)	_	r

6.49

36

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
n-Butylbenzene	0.150	ND	0.143	0.176	95.2	118	1	10.0-160			21.1	40
sec-Butylbenzene	0.150	ND	0.136	0.170	90.4	114	1	10.0-159			22.7	39
tert-Butylbenzene	0.150	ND	0.138	0.174	92.0	116	1	10.0-156			23.1	39
Carbon tetrachloride	0.150	ND	0.110	0.00140	73.4	0.936	1	10.0-145		<u>J3 J6</u>	195	37
Chlorobenzene	0.150	ND	0.156	0.180	104	120	1	10.0-152			14.3	39
Chlorodibromomethane	0.150	ND	0.138	0.151	92.0	101	1	10.0-146			9.13	37
Chloroethane	0.150	ND	0.0284	0.0428	19.0	28.6	1	10.0-146		<u>J3</u>	40.4	40
Chloroform	0.150	ND	0.0938	0.112	62.6	74.7	1	10.0-146			17.7	37
Chloromethane	0.150	ND	0.0833	0.107	55.5	71.4	1	10.0-159			25.1	37
2-Chlorotoluene	0.150	ND	0.150	0.172	100	114	1	10.0-159			13.4	38
4-Chlorotoluene	0.150	ND	0.160	0.185	106	123	1	10.0-155			14.6	39
1,2-Dibromo-3-Chloropropane	0.150	ND	0.117	0.126	78.1	84.0	1	10.0-151			7.31	39
1,2-Dibromoethane	0.150	ND	0.139	0.146	92.8	97.6	1	10.0-148			5.04	34
Dibromomethane	0.150	ND	0.138	0.137	92.0	91.2	1	10.0-147			0.873	35
1,2-Dichlorobenzene	0.150	ND	0.136	0.145	90.4	96.8	1	10.0-155			6.84	37
1,3-Dichlorobenzene	0.150	ND	0.163	0.186	109	124	1	10.0-153			13.1	38
1,4-Dichlorobenzene	0.150	ND	0.146	0.167	97.6	111	1	10.0-151			13.0	38
Dichlorodifluoromethane	0.150	ND	0.0572	0.0752	38.2	50.2	1	10.0-160			27.2	35
1,1-Dichloroethane	0.150	ND	0.108	0.128	72.2	85.6	1	10.0-147			17.0	37
1,2-Dichloroethane	0.150	ND	0.142	0.146	94.4	97.6	1	10.0-148			3.33	35
1,1-Dichloroethene	0.150	ND	0.101	0.137	67.6	91.2	1	10.0-155			29.7	37
cis-1,2-Dichloroethene	0.150	ND	0.0992	0.119	66.2	79.4	1	10.0-149			18.2	37
trans-1,2-Dichloroethene	0.150	ND	0.0903	0.115	60.2	76.7	1	10.0-150			24.1	37
1,2-Dichloropropane	0.150	ND	0.142	0.164	94.4	110	1	10.0-148			14.9	37
1,1-Dichloropropene	0.150	ND	0.103	0.136	68.7	90.4	1	10.0-153			27.2	35
1,3-Dichloropropane	0.150	ND	0.150	0.161	100	107	1	10.0-154			6.95	35
cis-1,3-Dichloropropene	0.150	ND	0.138	0.152	92.0	102	1	10.0-151			9.92	37
trans-1,3-Dichloropropene	0.150	ND	0.151	0.169	101	113	1	10.0-148			11.2	37
2,2-Dichloropropane	0.150	ND	0.0621	0.0782	41.4	52.2	1	10.0-138			22.9	36
Di-isopropyl ether	0.150	ND	0.100	0.106	66.7	71.0	1	10.0-147			6.16	36
Ethylbenzene	0.150	ND	0.127	0.158	84.8	106	1	10.0-160			21.8	38
Hexachloro-1,3-butadiene	0.150	ND	0.119	0.151	79.4	101	1	10.0-160			23.8	40
Isopropylbenzene	0.150	ND	0.108	0.138	71.8	92.0	1	10.0-155			24.7	38
p-Isopropyltoluene	0.150	ND	0.136	0.170	90.4	114	1	10.0-160			22.7	40
2-Butanone (MEK)	0.750	0.0324	0.678	0.653	86.1	82.7	1	10.0-160			3.79	40
Methylene Chloride	0.150	ND	0.128	0.145	85.6	96.8	1	10.0-141			12.3	37
4-Methyl-2-pentanone (MIBK)	0.750	ND	0.723	0.753	96.5	100	1	10.0-160			4.06	35
	0.150	ND	0.0765	0.0859	51.0	57.3	1	11.0-147				35

 ACCOUNT:
 PROJECT:
 SDG:
 DATE/TIME:
 PAGE:

 Applied GeoTech
 1200034
 L1181249
 01/22/20 14:13
 26 of 30

10.0-160

84.0

78.7

0.126



(S) 1,2-Dichloroethane-d4

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC/MS) by Method 8260B

L1181249-01,02,03,04

L1181249-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1181249-04 01/22/20 03:45 • (MS) R3492829-4 01/22/20 04:04 • (MSD) R3492829-5 01/22/20 04:24

	¹ Cp
ı	

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
n-Propylbenzene	0.150	ND	0.137	0.167	91.2	111	1	10.0-158			19.8	38
Styrene	0.150	ND	0.136	0.157	90.4	105	1	10.0-160			14.8	40
1,1,1,2-Tetrachloroethane	0.150	ND	0.106	0.122	70.8	81.6	1	10.0-149			14.2	39
1,1,2,2-Tetrachloroethane	0.150	ND	0.110	0.0933	73.1	62.2	1	10.0-160			16.1	35
Tetrachloroethene	0.150	ND	0.124	0.163	82.4	109	1	10.0-156			27.6	39
Toluene	0.150	ND	0.138	0.163	92.0	109	1	10.0-156			16.7	38
1,1,2-Trichlorotrifluoroethane	0.150	ND	0.0913	0.134	60.9	89.6	1	10.0-160		<u>J3</u>	38.2	36
1,2,3-Trichlorobenzene	0.150	ND	0.118	0.124	78.6	82.4	1	10.0-160			4.77	40
1,2,4-Trichlorobenzene	0.150	ND	0.148	0.155	98.4	103	1	10.0-160			4.76	40
1,1,1-Trichloroethane	0.150	ND	0.0900	0.120	60.0	79.8	1	10.0-144			28.3	35
1,1,2-Trichloroethane	0.150	ND	0.127	0.136	84.8	90.4	1	10.0-160			6.39	35
Trichloroethene	0.150	ND	0.152	0.198	102	132	1	10.0-156			26.0	38
Trichlorofluoromethane	0.150	ND	0.0377	0.0545	25.1	36.3	1	10.0-160			36.5	40
1,2,3-Trichloropropane	0.150	ND	0.160	0.169	106	113	1	10.0-156			5.84	35
1,2,3-Trimethylbenzene	0.150	ND	0.108	0.124	72.2	82.4	1	10.0-160			13.3	36
1,2,4-Trimethylbenzene	0.150	ND	0.131	0.154	87.2	102	1	10.0-160			16.0	36
1,3,5-Trimethylbenzene	0.150	ND	0.127	0.156	84.8	104	1	10.0-160			20.3	38
Vinyl chloride	0.150	ND	0.0756	0.103	50.4	68.4	1	10.0-160			30.3	37
Xylenes, Total	0.450	ND	0.360	0.446	80.0	99.2	1	10.0-160			21.4	38
(S) Toluene-d8					106	106		75.0-131				
(S) 4-Bromofluorobenzene					90.8	92.3		67.0-138				

96.9

70.0-130

97.2





















PAGE:

27 of 30

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

, 1.5 5 . 6 . 1. 6 . 1. 6 . 1. 6 . 1. 6	
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.















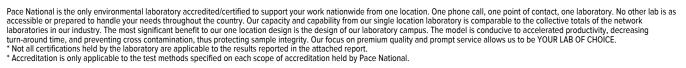






ACCREDITATIONS & LOCATIONS





State Accreditations

Otate / tool caltations	
Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky 16	90010
Kentucky ²	16
Louisiana	Al30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	
A2LA - ISO 17025 5	1461.02	
Canada	1461.01	
EPA-Crypto	TN00003	

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



















PAGE:

29 of 30

Applied Geotech (AGEC) 600 West Sandy Parkway			APPGEO		Pres				Analysis / Container / Preservative						C	Chain of Custody Page of		
Sandy, UT 84070		Chi				A	A STATE OF THE STA								Pace Analytical National Cantive for Tenting & In			
Report to:			Email To:			10.5	1									1	2065 Lebanon Rd	19462
Tom Atkinson			atkinso	n@agecinc.co	om											N	fount Juliet, TN 37 hone: 615-758-585	
Project Description: FOT Sey's		City/St Collect		en Ut	Please Circl	e: ET									P	hone: 800-767-585 ax: 615-758-5859		
Phone: 801-566-6399	Client Proje	-	LI	Lab Project #				HCI									DG#	ATTOMATE IN THE SECOND
Fax: 801-566-649. Collected by (print): The Mark Alking	Site/Facility	1000 S		P.O. #		- 3	CLR	AMB/HCI								- 1	able # [] {	
Collected by (signature):	Rush?	(Lab MUST Be		Quote #			402 C	10mL								I	emplate:	
Immediately Packed on Ice N Y	Next I	Day Five	Day (Rad Only) Day (Rad Only)	Date Res	ults Needed	No.	V8260/(1)	V8260/(3) 40mL								P	relogin: M: Daphne B:	Richards
Sample ID	Comp/Gral	T	Depth	Date	Time	of Cntrs	326	326								S	hipped Via:	
Sample 10	_	IVIALITY		Date			5	>				- 2					Remarks	Sample # (lab only)
GP100-2	arsh	SS	0-2-	1/20/20	930	1	/							101.5				-61
GPIE7	1	SS	7'		940	1	/											@
N200-2-		ss	0-2"		1030	1	/											03
OF 207		SS	2-	1	1040	1	1											04
60-1		GW			990	3		/						y. T				05
68-2	1	GW		7	100	3		/										04
		-20														-	-	
- N - WA A					747			12										
						103												
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay	Remarks:			1			pH Temp				-	Sample Receipt Checklist COC Seal Present/Intact: NP Y COC Signed/Accurate: Y			$A_{Nb} = \frac{1}{\lambda} = \frac{1}{N}$			
WW - WasteWater DW - Drinking Water OT - Other		Samples returned via:UPSFedExCourier Tracking #								Flow Other				Bottles arrive intact Correct bottles used: Sufficient volume ser		les used: plume sent: If Applicab	le Zy N	
Relinquished by : (Signature)		Date:	1201	ime: R	eceiyed by: (s/gna	ture)	1			Trip Blar	nk Rece		HCL/M		Preser	vation	Ispace: Correct/Che).5 mR/hr:	ecked: Y N
Relinquished by : (Signature)	COT	Date:	1/2020	ime: #1	eceived by USigna	ture)				Temp: /:	13		TBR les Receiv	ed:	If preser	rvation r	equired by Log	tin: Date/Time
Relinquished by : (Signature)		Date:	T T	ime: R	eceived for lab by		SHEET AND THE STATE OF			Date:	1/20	Tim	e: 0 80	S	Hold:			Condition: NCF OK



ANALYTICAL REPORT

January 24, 2020

Applied GeoTech

L1181707 Sample Delivery Group:

Samples Received: 01/22/2020

Project Number: 1200034

Description: Forsey

Report To: Thomas Atkinson

600 West Sandy Parkway

Sandy, UT 84070

















Entire Report Reviewed By: Washne R Richards

Daphne Richards Project Manager

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



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
PRT-1 L1181707-01	5
PRT-2 L1181707-02	7
UP-1 L1181707-03	9
UP-2 L1181707-04	11
Qc: Quality Control Summary	13
Volatile Organic Compounds (MS) by Method TO-15	13
GI: Glossary of Terms	22
Al: Accreditations & Locations	23
Sc: Sample Chain of Custody	24























			Collected by	Collected date/time	Received da	te/time
PRT-1 L1181707-01 Air			Thomas Atkinson	01/20/20 10:10	01/22/20 09:	15
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1415873	1	01/23/20 21:13	01/23/20 21:13	DAH	Mt. Juliet, TN
PRT-2 L1181707-02 Air			Collected by Thomas Atkinson	Collected date/time 01/20/20 10:55	Received da 01/22/20 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1415186	1	01/22/20 23:33	01/22/20 23:33	MBF	Mt. Juliet, TN
UP-1 L1181707-03 Air			Collected by Thomas Atkinson	Collected date/time 01/21/20 13:50	Received da 01/22/20 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15 Volatile Organic Compounds (MS) by Method TO-15	WG1415186 WG1415964	1 400	01/23/20 00:20 01/23/20 17:12	01/23/20 00:20 01/23/20 17:12	MBF DAH	Mt. Juliet, TN Mt. Juliet, TN
UP-2 L1181707-04 Air			Collected by Thomas Atkinson	Collected date/time 01/21/20 13:55	Received da 01/22/20 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1415186	1	01/23/20 01:06	01/23/20 01:06	MBF	Mt. Juliet, TN

WG1415964

400

01/23/20 17:48

01/23/20 17:48

DAH

Mt. Juliet, TN



















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

<u>г</u>

















Japhne R Richards

Daphne Richards
Project Manager

SDG:

L1181707

ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:10

L1181707

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	1.25	2.97	51.2	122		1	WG1415873
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1415873
Benzene	71-43-2	78.10	0.200	0.639	0.956	3.05		1	WG1415873
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1415873
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1415873
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1415873
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1415873
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1415873
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1415873
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.323	2.03		1	WG1415873
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1415873
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1415873
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1415873
Chloromethane	74-87-3	50.50	0.200	0.413	0.636	1.31		1	WG1415873
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1415873
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1415873
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1415873
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1415873
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1415873
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1415873
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1415873
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1415873
	75-34-3			0.802	ND	ND		1	
1,1-Dichloroethane	75-3 4 -3 75-35-4	98 96.90	0.200 0.200	0.802	ND	ND		1	WG1415873
1,1-Dichloroethene									WG1415873
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1415873
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND			WG1415873
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1415873
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND			WG1415873
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1415873
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND FO.F		1	WG1415873
Ethanol	64-17-5	46.10	0.630	1.19	26.8	50.5		1	WG1415873
Ethylbenzene	100-41-4 622-96-8	106	0.200	0.867	0.249	1.08			WG1415873
4-Ethyltoluene		120	0.200	0.982	ND	ND		1	WG1415873
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.222	1.25		1	WG1415873
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1415873
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1415873
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1415873
Heptane	142-82-5	100	0.200	0.818	0.350	1.43		1	WG1415873
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1415873
n-Hexane	110-54-3	86.20	0.200	0.705	0.829	2.92		1	WG1415873
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1415873
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.739	2.57		1	WG1415873
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1415873
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	2.69	7.93		1	WG1415873
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1415873
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1415873
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1415873
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1415873
2-Propanol	67-63-0	60.10	1.25	3.07	2.41	5.92		1	WG1415873
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1415873
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1415873
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1415873
Tetrachloroethylene	127-18-4	166	0.200	1.36	3.74	25.4		1	WG1415873
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1415873
Toluene	108-88-3	92.10	0.200	0.753	2.08	7.84		1	WG1415873
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1415873





















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:10

L1181707

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1415873
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1415873
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1415873
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.418	2.05		1	WG1415873
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1415873
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.08	5.05		1	WG1415873
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1415873
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1415873
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1415873
m&p-Xylene	1330-20-7	106	0.400	1.73	1.14	4.94		1	WG1415873
o-Xylene	95-47-6	106	0.200	0.867	0.410	1.78		1	WG1415873
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.4				WG1415873



















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:55

1181707

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	1.25	2.97	13.1	31.1		1	WG1415186
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1415186
enzene	71-43-2	78.10	0.200	0.639	2.25	7.19		1	WG1415186
enzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1415186
romodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1415186
romoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1415186
romomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1415186
3-Butadiene	106-99-0	54.10	2.00	4.43	12.1	26.8		1	WG1415186
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.46	7.66		1	WG1415186
Carbon tetrachloride	56-23-5	154	0.200	1.26	2.40 ND	ND		1	WG1415186
	108-90-7	113	0.200	0.924	ND	ND		1	
hlorobenzene									WG1415186
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1415186
hloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1415186
hloromethane	74-87-3	50.50	0.200	0.413	0.241	0.498		1	WG1415186
-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1415186
yclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1415186
ibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1415186
2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1415186
2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1415186
3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1415186
4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1415186
2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1415186
1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1415186
1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1415186
s-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1415186
ans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1415186
2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1415186
s-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1415186
ans-1,3-Dichloropropene	10061-01-3	111	0.200	0.908	ND	ND		1	WG1415186
4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1415186
thanol	64-17-5	46.10	0.630	1.19	3.99	7.52		1	WG1415186
thylbenzene	100-41-4	106	0.200	0.867	0.279	1.21		1	WG1415186
-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1415186
richlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1415186
ichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.392	1.94		1	WG1415186
1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1415186
2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1415186
eptane	142-82-5	100	0.200	0.818	0.350	1.43		1	WG1415186
exachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1415186
-Hexane	110-54-3	86.20	0.200	0.705	1.15	4.05		1	WG1415186
opropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1415186
ethylene Chloride	75-09-2	84.90	0.200	0.694	0.244	0.847		1	WG1415186
ethyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1415186
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.80	11.2		1	WG1415186
Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1415186
ethyl methacrylate	80-62-6	100.10	0.200	0.819	ND ND	ND ND		1	WG1415186
тве ТВЕ	1634-04-4	88.10	0.200	0.819		ND ND		1	
					ND				WG1415186
aphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1415186
Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1415186
ropene	115-07-1	42.10	0.400	0.689	95.2	164		1	WG1415186
tyrene	100-42-5	104	0.200	0.851	0.390	1.66		1	WG1415186
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1415186
etrachloroethylene	127-18-4	166	0.200	1.36	68.9	468		1	WG1415186
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1415186
oluene	108-88-3	92.10	0.200	0.753	1.84	6.93		1	WG1415186
2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1415186



















ONE LAB. NATIONWIDE.

Collected date/time: 01/20/20 10:55

L1181707

	CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1415186
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1415186
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1415186
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.209	1.03		1	WG1415186
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1415186
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1415186
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1415186
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1415186
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1415186
m&p-Xylene	1330-20-7	106	0.400	1.73	0.606	2.63		1	WG1415186
o-Xylene	95-47-6	106	0.200	0.867	0.252	1.09		1	WG1415186
(S) 1.4-Bromofluorobenzene	460-00-4	175	60.0-140		99.8				WG1415186



















Collected date/time: 01/21/20 13:50

L1181707

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3	<u></u>		
Acetone	67-64-1	58.10	1.25	2.97	34.4	81.7		1	WG1415186
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1415186
Benzene	71-43-2	78.10	0.200	0.639	0.340	1.09		1	WG1415186
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1415186
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1415186
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1415186
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1415186
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1415186
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1415186
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1415186
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1415186
	75-00-3	64.50		0.528	ND ND	ND ND		1	
Chloroethane			0.200						WG1415186
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1415186
Chloromethane	74-87-3	50.50	0.200	0.413	0.370	0.764		1	WG1415186
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1415186
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1415186
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1415186
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1415186
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1415186
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1415186
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1415186
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1415186
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1415186
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	0.597	2.37		1	WG1415186
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	4.94	19.6		1	WG1415186
rans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1415186
l,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1415186
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1415186
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1415186
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1415186
Ethanol	64-17-5	46.10	0.630	1.19	16.1	30.4		1	WG1415186
Ethylbenzene	100-41-4	106	0.200	0.867	0.388	1.68		1	WG1415186
4-Ethyltoluene	622-96-8	120	0.200	0.807	0.593	2.91		1	WG1415186
								1	
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.399	2.24			WG1415186
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.595	2.94		1	WG1415186
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1415186
l,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1415186
Heptane	142-82-5	100	0.200	0.818	0.203	0.830		1	WG1415186
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1415186
n-Hexane	110-54-3	86.20	0.200	0.705	0.349	1.23		1	WG1415186
sopropylbenzene	98-82-8	120.20	0.200	0.983	0.443	2.18		1	WG1415186
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1415186
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1415186
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	4.16	12.3		1	WG1415186
1-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1415186
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1415186
ИТВЕ	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1415186
Naphthalene	91-20-3	128	0.630	3.30	1.14	5.97		1	WG1415186
2-Propanol	67-63-0	60.10	1.25	3.07	3.12	7.67		1	WG1415186
Propene	115-07-1	42.10	0.400	0.689	2.32	3.99		1	WG1415186
Styrene	100-42-5	104	0.400	0.851	ND	ND		1	WG1415186
,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND ND	ND		1	WG1415186
etrachloroethylene	127-18-4	166	80.0	543	5460	37100		400	WG1415964
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1415186
Toluene	108-88-3	92.10	0.200	0.753	0.812	3.06		1	WG1415186
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1415186



















ONE LAB. NATIONWIDE.

Collected date/time: 01/21/20 13:50

L1181707

	<u>'</u>	, , ,							
	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1415186
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1415186
Trichloroethylene	79-01-6	131	0.200	1.07	74.5	399		1	WG1415186
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.914	4.49		1	WG1415186
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1415186
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1415186
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1415186
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1415186
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1415186
m&p-Xylene	1330-20-7	106	0.400	1.73	0.974	4.22		1	WG1415186
o-Xylene	95-47-6	106	0.200	0.867	0.281	1.22		1	WG1415186
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		105				WG1415186
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.2				WG1415964



















ONE LAB. NATIONWIDE.

Collected date/time: 01/21/20 13:55

L1181707

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	1.25	2.97	40.7	96.7		1	WG1415186
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1415186
Benzene	71-43-2	78.10	0.200	0.639	0.497	1.59		1	WG1415186
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1415186
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1415186
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1415186
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1415186
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1415186
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1415186
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1415186
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1415186
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1415186
Chloroform	67-66-3	119	0.200	0.973	3.50	17.0		1	WG1415186
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1415186
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1415186
Cyclohexane	110-82-7	84.20	0.200	0.689	0.236	0.813		1	WG1415186
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1415186
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1415186
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1415186
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1415186
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1415186
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1415186
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1415186
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1415186
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	2.44	9.67		1	WG1415186
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1415186
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1415186
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1415186
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1415186
1,4-Dioxane	123-91-1	88.10	0.200	0.721	1.82	6.56		1	WG1415186
Ethanol	64-17-5	46.10	0.630	1.19	14.6	27.5		1	WG1415186
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1415186
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1415186
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.233	1.31		1	WG1415186
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.470	2.32		1	WG1415186
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1415186
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1415186
Heptane	142-82-5	100	0.200	0.818	0.592	2.42		1	WG1415186
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1415186
n-Hexane	110-54-3	86.20	0.200	0.705	1.84	6.49		1	WG1415186
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1415186
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.356	1.24		1	WG1415186
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1415186
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.72	5.07		1	WG1415186
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1415186
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1415186
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1415186
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1415186
2-Propanol	67-63-0	60.10	1.25	3.07	6.10	15.0		1	WG1415186
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1415186
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1415186
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1415186
Tetrachloroethylene	127-18-4	166	80.0	543	10900	74000		400	WG1415964
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1415186
Toluene	108-88-3	92.10	0.200	0.753	0.664	2.50		1	WG1415186
roluerie	100-00-0								WG1413100



Ss

Cn

СQс

Gl

Sc

ACCOUNT:

Applied GeoTech

ONE LAB. NATIONWIDE.

Collected date/time: 01/21/20 13:55

L1181707

	'	, , ,							
	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1415186
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1415186
Trichloroethylene	79-01-6	131	0.200	1.07	79.7	427		1	WG1415186
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1415186
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1415186
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1415186
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1415186
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1415186
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1415186
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1415186
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1415186
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG1415186
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		100				WG1415964



















ONE LAB. NATIONWIDE.

Volatile Organic Compounds (MS) by Method TO-15

L1181707-02,03,04

Method Blank (MB)

Method Blank (MB)				
(MB) R3492958-3 01/22/2	20 10:31			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ppbv		ppbv	ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200















PAGE: 13 of 24

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (MS) by Method TO-15

L1181707-02,03,04

Method Blank (MB)

(S) 1,4-Bromofluorobenzene 81.6

(MB) R3492958-3 01/22/2	20 10:31				(
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ppbv		ppbv	ppbv	
Methylene Chloride	U		0.0465	0.200	느
Methyl Butyl Ketone	U		0.0682	1.25	3
2-Butanone (MEK)	U		0.0493	1.25	Ľ
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25	4
Methyl Methacrylate	U		0.0773	0.200	(
MTBE	U		0.0505	0.200	느
Naphthalene	U		0.154	0.630	5,
2-Propanol	U		0.0882	1.25	Ľ
Propene	U		0.0932	0.400	6
Styrene	U		0.0465	0.200	(
1,1,2,2-Tetrachloroethane	U		0.0576	0.200	
Tetrachloroethylene	U		0.0497	0.200	7
Tetrahydrofuran	U		0.0508	0.200	L
Toluene	U		0.0499	0.200	8
1,2,4-Trichlorobenzene	U		0.148	0.630	/
1,1,1-Trichloroethane	U		0.0665	0.200	느
1,1,2-Trichloroethane	U		0.0287	0.200	9
Trichloroethylene	U		0.0545	0.200	
1,2,4-Trimethylbenzene	U		0.0483	0.200	
1,3,5-Trimethylbenzene	U		0.0631	0.200	
2,2,4-Trimethylpentane	U		0.0456	0.200	
Vinyl chloride	U		0.0457	0.200	
Vinyl Bromide	U		0.0727	0.200	
Vinyl acetate	U		0.0639	0.200	
m&p-Xylene	U		0.0946	0.400	
o-Xylene	U		0.0633	0.200	
Ethanol	U		0.0832	0.630	

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

60.0-140

(LCS) R3492958-1 01/22/2	20 09:03 • (LCS	SD) R3492958	3-2 01/22/20 0	9:48						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
Ethanol	3.75	3.68	3.75	98.1	100	55.0-148			1.88	25
Propene	3.75	3.56	3.66	94.9	97.6	64.0-144			2.77	25
Dichlorodifluoromethane	3.75	3.64	3.74	97.1	99.7	64.0-139			2.71	25
1,2-Dichlorotetrafluoroethane	3.75	3.68	3.74	98.1	99.7	70.0-130			1.62	25
Chloromethane	3.75	3.69	3.76	98.4	100	70.0-130			1.88	25

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (MS) by Method TO-15

L1181707-02,03,04

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

(LCS) R3492958-1 01/22/2	20 09:03 • (LCS	D) R3492958-	2 01/22/20 09	:48						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Ab.d	and the co	and a law	and the same	0/	0/	0/			0/	0/

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
/inyl chloride	3.75	3.67	3.75	97.9	100	70.0-130			2.16	25	
l,3-Butadiene	3.75	3.49	3.60	93.1	96.0	70.0-130			3.10	25	
Bromomethane	3.75	3.75	3.78	100	101	70.0-130			0.797	25	
Chloroethane	3.75	3.71	3.76	98.9	100	70.0-130			1.34	25	
Trichlorofluoromethane	3.75	3.68	3.76	98.1	100	70.0-130			2.15	25	
1,1,2-Trichlorotrifluoroethane	3.75	3.68	3.75	98.1	100	70.0-130			1.88	25	
I,1-Dichloroethene	3.75	3.70	3.73	98.7	99.5	70.0-130			0.808	25	
,1-Dichloroethane	3.75	3.66	3.76	97.6	100	70.0-130			2.70	25	
Acetone	3.75	4.22	4.32	113	115	70.0-130			2.34	25	
2-Propanol	3.75	3.68	3.78	98.1	101	70.0-139			2.68	25	
Carbon disulfide	3.75	3.66	3.72	97.6	99.2	70.0-130			1.63	25	
Methylene Chloride	3.75	3.57	3.66	95.2	97.6	70.0-130			2.49	25	
ИТВЕ	3.75	3.66	3.74	97.6	99.7	70.0-130			2.16	25	
rans-1,2-Dichloroethene	3.75	3.64	3.76	97.1	100	70.0-130			3.24	25	
n-Hexane	3.75	3.71	3.74	98.9	99.7	70.0-130			0.805	25	
/inyl acetate	3.75	3.97	4.05	106	108	70.0-130			2.00	25	
Methyl Ethyl Ketone	3.75	4.06	4.09	108	109	70.0-130			0.736	25	
is-1,2-Dichloroethene	3.75	3.76	3.81	100	102	70.0-130			1.32	25	
Chloroform	3.75	3.66	3.71	97.6	98.9	70.0-130			1.36	25	
Cyclohexane	3.75	3.72	3.73	99.2	99.5	70.0-130			0.268	25	
,1,1-Trichloroethane	3.75	3.65	3.73	97.3	99.5	70.0-130			2.17	25	
Carbon tetrachloride	3.75	3.68	3.75	98.1	100	70.0-130			1.88	25	
Benzene	3.75	3.71	3.78	98.9	101	70.0-130			1.87	25	
,2-Dichloroethane	3.75	3.66	3.74	97.6	99.7	70.0-130			2.16	25	
Heptane	3.75	4.23	4.30	113	115	70.0-130			1.64	25	
richloroethylene	3.75	3.63	3.70	96.8	98.7	70.0-130			1.91	25	
,2-Dichloropropane	3.75	3.67	3.75	97.9	100	70.0-130			2.16	25	
,4-Dioxane	3.75	4.02	4.05	107	108	70.0-140			0.743	25	
Bromodichloromethane	3.75	3.69	3.72	98.4	99.2	70.0-130			0.810	25	
is-1,3-Dichloropropene	3.75	3.79	3.82	101	102	70.0-130			0.788	25	
-Methyl-2-pentanone (MIBK)	3.75	4.06	4.12	108	110	70.0-139			1.47	25	
oluene	3.75	3.73	3.81	99.5	102	70.0-130			2.12	25	
rans-1,3-Dichloropropene	3.75	3.92	3.99	105	106	70.0-130			1.77	25	
1,2-Trichloroethane	3.75	3.73	3.79	99.5	101	70.0-130			1.60	25	
etrachloroethylene	3.75	3.75	3.82	100	102	70.0-130			1.85	25	
lethyl Butyl Ketone	3.75	4.04	4.11	108	110	70.0-149			1.72	25	
ibromochloromethane	3.75	3.77	3.84	101	102	70.0-130			1.84	25	
2-Dibromoethane	3.75	3.90	3.96	104	106	70.0-130			1.53	25	
Chlorobenzene	3.75	3.81	3.90	102	104	70.0-130			2.33	25	
Ethylbenzene	3.75	3.74	3.90	99.7	104	70.0-130			1.85	25	

1,2,4-Trimethylbenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,2-Dichlorobenzene

1,2,4-Trichlorobenzene

Hexachloro-1,3-butadiene

Benzyl Chloride

Naphthalene

Allyl Chloride

2-Chlorotoluene

Tetrahydrofuran

Vinyl Bromide

Isopropylbenzene

Methyl Methacrylate

2,2,4-Trimethylpentane

(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (MS) by Method TO-15

3.75

3.75

3.75

3.75

3.75

3.75

3.75

3.75

3.75

3.75

3.75

3.75

3.75

3.75

3.75

L1181707-02,03,04

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

4.00

4.41

4.77

3.91

4.41

5.56

3.97

4.00

3.75

3.88

3.88

3.78

3.77

3.70

3.81

105

118

125

103

116

147

106

106

98.1

102

102

99.2

99.2

97.6

101

102

107

118

127

104

118

148

106

107

100

103

103

101

101

98.7

102

102

(LCS) R3492958-1 01/22/20 09:03 • (LCSD) R3492958-2 01/22/20 09:48

3.93

4.41

4.70

3.88

4.34

5.51

3.96

3.97

3.68

3.83

3.83

3.72

3.72

3.66

3.80

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
m&p-Xylene	7.50	7.38	7.49	98.4	99.9	70.0-130			1.48	25	
o-Xylene	3.75	3.69	3.75	98.4	100	70.0-130			1.61	25	
Styrene	3.75	4.08	4.13	109	110	70.0-130			1.22	25	
Bromoform	3.75	3.85	3.90	103	104	70.0-130			1.29	25	
1,1,2,2-Tetrachloroethane	3.75	3.83	3.89	102	104	70.0-130			1.55	25	
4-Ethyltoluene	3.75	4.05	4.05	108	108	70.0-130			0.000	25	
1.3.5-Trimethylbenzene	3.75	3.76	3.83	100	102	70.0-130			1.84	25	

70.0-130

70.0-130

70.0-130

70.0-152

70.0-130

70.0-160

70.0-151

70.0-159

70.0-130

70.0-130

70.0-130

70.0-137

70.0-130

70.0-130

70.0-130

60.0-140

1.77

1.48

0.000

0.770

0.903

0.252

0.753

1.88

1.30

1.30

1.60

1.34

1.09

0.263

1.60

25

25

25

25

25

25

25

25

25 25

25

25

25

25

25

















PAGE:

16 of 24

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (MS) by Method TO-15

L1181707-01

Method Blank (MB)

(MB) R3493512-3 01/23/20 10:34					
Analyte	ppbv		ppbv	ppbv	
Acetone	U		0.0569	1.25	
Allyl Chloride	U		0.0546	0.200	
Benzene	U		0.0460	0.200	
Benzyl Chloride	U		0.0598	0.200	
Bromodichloromethane	U		0.0436	0.200	
Bromoform	U		0.0786	0.600	
Bromomethane	U		0.0609	0.200	
1,3-Butadiene	U		0.0563	2.00	
Carbon disulfide	0.0747	<u>J</u>	0.0544	0.200	
Carbon tetrachloride	U		0.0585	0.200	
Chlorobenzene	U		0.0601	0.200	
Chloroethane	U		0.0489	0.200	
Chloroform	U		0.0574	0.200	
Chloromethane	U		0.0544	0.200	
2-Chlorotoluene	U		0.0605	0.200	
Cyclohexane	U		0.0534	0.200	
Dibromochloromethane	U		0.0494	0.200	
1,2-Dibromoethane	U		0.0185	0.200	
1,2-Dichlorobenzene	U		0.0603	0.200	
1,3-Dichlorobenzene	U		0.0597	0.200	
1,4-Dichlorobenzene	U		0.0557	0.200	
1,2-Dichloroethane	U		0.0616	0.200	
1,1-Dichloroethane	U		0.0514	0.200	
1,1-Dichloroethene	U		0.0490	0.200	
cis-1,2-Dichloroethene	U		0.0389	0.200	
trans-1,2-Dichloroethene	U		0.0464	0.200	
1,2-Dichloropropane	U		0.0599	0.200	
cis-1,3-Dichloropropene	U		0.0588	0.200	
trans-1,3-Dichloropropene	U		0.0435	0.200	
1,4-Dioxane	U		0.0554	0.200	
Ethylbenzene	U		0.0506	0.200	
4-Ethyltoluene	U		0.0666	0.200	
Trichlorofluoromethane	U		0.0673	0.200	
Dichlorodifluoromethane	U		0.0601	0.200	
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200	
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200	
Heptane	U		0.0626	0.200	
Hexachloro-1,3-butadiene	U		0.0656	0.630	
n-Hexane	U		0.0457	0.200	
Isopropylbenzene	U		0.0563	0.200	



QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (MS) by Method TO-15

L1181707-01

Method Blank (MB)

(S) 1,4-Bromofluorobenzene 99.1

(MB) R3493512-3 01/23/20	0 10:34				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ppbv		ppbv	ppbv	
Methylene Chloride	U		0.0465	0.200	
Methyl Butyl Ketone	U		0.0682	1.25	
2-Butanone (MEK)	U		0.0493	1.25	
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25	
Methyl Methacrylate	U		0.0773	0.200	
MTBE	U		0.0505	0.200	
Naphthalene	U		0.154	0.630	
2-Propanol	U		0.0882	1.25	
Propene	U		0.0932	0.400	
Styrene	U		0.0465	0.200	
1,1,2,2-Tetrachloroethane	U		0.0576	0.200	
Tetrachloroethylene	U		0.0497	0.200	
Tetrahydrofuran	U		0.0508	0.200	
Toluene	U		0.0499	0.200	
1,2,4-Trichlorobenzene	U		0.148	0.630	
1,1,1-Trichloroethane	U		0.0665	0.200	
1,1,2-Trichloroethane	U		0.0287	0.200	
Trichloroethylene	U		0.0545	0.200	
1,2,4-Trimethylbenzene	U		0.0483	0.200	
1,3,5-Trimethylbenzene	U		0.0631	0.200	
2,2,4-Trimethylpentane	U		0.0456	0.200	
Vinyl chloride	U		0.0457	0.200	
Vinyl Bromide	U		0.0727	0.200	
Vinyl acetate	U		0.0639	0.200	
m&p-Xylene	U		0.0946	0.400	
o-Xylene	U		0.0633	0.200	
Ethanol	U		0.0832	0.630	

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

60.0-140

(LCS) R3493512-1 01/23/2	CS) R3493512-1 01/23/20 09:10 • (LCSD) R3493512-2 01/23/20 09:53											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%		
Ethanol	3.75	3.27	4.02	87.2	107	55.0-148			20.6	25		
Propene	3.75	4.12	3.58	110	95.5	64.0-144			14.0	25		
Dichlorodifluoromethane	3.75	4.20	3.65	112	97.3	64.0-139			14.0	25		
1,2-Dichlorotetrafluoroethane	3.75	4.09	3.72	109	99.2	70.0-130			9.48	25		
Chloromethane	3.75	4.03	3.65	107	97.3	70.0-130			9.90	25		

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (MS) by Method TO-15

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

(LCS) R3493512-1 01/23/2	0 09:10 • (LCSI	D) R3493512-2	2 01/23/20 09:5	53						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
Vinyl chloride	3.75	4.01	3.68	107	98.1	70.0-130			8.58	25
1,3-Butadiene	3.75	3.93	3.50	105	93.3	70.0-130			11.6	25
Bromomethane	3.75	3.51	3.69	93.6	98.4	70.0-130			5.00	25
Chloroethane	3.75	3.28	3.80	87.5	101	70.0-130			14.7	25
Trichlorofluoromethane	3.75	3.62	3.81	96.5	102	70.0-130			5.11	25
1,1,2-Trichlorotrifluoroethane	3.75	3.97	3.87	106	103	70.0-130			2.55	25
1,1-Dichloroethene	3.75	3.89	3.71	104	98.9	70.0-130			4.74	25
1,1-Dichloroethane	3.75	3.92	3.90	105	104	70.0-130			0.512	25
Acetone	3.75	4.25	4.14	113	110	70.0-130			2.62	25
2-Propanol	3.75	4.20	4.03	112	107	70.0-139			4.13	25
Carbon disulfide	3.75	3.74	3.46	99.7	92.3	70.0-130			7.78	25
Methylene Chloride	3.75	3.97	3.84	106	102	70.0-130			3.33	25
MTBE	3.75	3.67	3.61	97.9	96.3	70.0-130			1.65	25
trans-1,2-Dichloroethene	3.75	4.00	3.78	107	101	70.0-130			5.66	25
n-Hexane	3.75	4.02	3.81	107	102	70.0-130			5.36	25
Vinyl acetate	3.75	2.87	2.92	76.5	77.9	70.0-130			1.73	25
Methyl Ethyl Ketone	3.75	3.70	3.76	98.7	100	70.0-130			1.61	25
cis-1,2-Dichloroethene	3.75	3.48	3.51	92.8	93.6	70.0-130			0.858	25
Chloroform	3.75	3.85	3.92	103	105	70.0-130			1.80	25
Cyclohexane	3.75	3.94	3.80	105	101	70.0-130			3.62	25
1,1,1-Trichloroethane	3.75	3.91	3.85	104	103	70.0-130			1.55	25
Carbon tetrachloride	3.75	3.96	3.91	106	104	70.0-130			1.27	25
Benzene	3.75	3.95	3.80	105	101	70.0-130			3.87	25
1,2-Dichloroethane	3.75	4.07	3.91	109	104	70.0-130			4.01	25
Heptane	3.75	2.92	3.01	77.9	80.3	70.0-130			3.04	25
Trichloroethylene	3.75	3.94	3.96	105	106	70.0-130			0.506	25
1,2-Dichloropropane	3.75	3.92	3.90	105	104	70.0-130			0.512	25
1,4-Dioxane	3.75	4.00	3.53	107	94.1	70.0-140			12.5	25
Bromodichloromethane	3.75	3.93	3.92	105	105	70.0-130			0.255	25
cis-1,3-Dichloropropene	3.75	3.86	3.83	103	102	70.0-130			0.780	25
4-Methyl-2-pentanone (MIBK)	3.75	4.29	3.66	114	97.6	70.0-139			15.8	25
Toluene	3.75	3.98	3.91	106	104	70.0-130			1.77	25
trans-1,3-Dichloropropene	3.75	3.98	3.85	106	103	70.0-130			3.32	25
1,1,2-Trichloroethane	3.75	3.95	3.82	105	102	70.0-130			3.35	25
Tetrachloroethylene	3.75	3.99	3.90	106	104	70.0-130			2.28	25
Methyl Butyl Ketone	3.75	4.41	3.55	118	94.7	70.0-149			21.6	25
Dibromochloromethane	3.75	4.07	3.87	109	103	70.0-130			5.04	25
1,2-Dibromoethane	3.75	4.06	3.83	108	102	70.0-130			5.83	25
Chlorobenzene	3.75	4.10	3.87	109	103	70.0-130			5.77	25
Ethylbenzene	3.75	3.97	3.87	106	103	70.0-130			2.55	25

ACCOUNT: PROJECT: SDG: DATE/TIME: PAGE: Applied GeoTech 1200034 L1181707 01/24/20 12:44 19 of 24

(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (MS) by Method TO-15

L1181707-01

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

(LCS) R3493512-1 01/23/20 09:10 • (LCSD) R3493512-2 01/23/20 09:53

,	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
m&p-Xylene	7.50	8.03	7.74	107	103	70.0-130			3.68	25	
o-Xylene	3.75	3.99	3.81	106	102	70.0-130			4.62	25	
Styrene	3.75	4.13	3.85	110	103	70.0-130			7.02	25	
Bromoform	3.75	3.96	3.88	106	103	70.0-130			2.04	25	
1,1,2,2-Tetrachloroethane	3.75	4.13	3.75	110	100	70.0-130			9.64	25	
4-Ethyltoluene	3.75	4.18	3.78	111	101	70.0-130			10.1	25	
1,3,5-Trimethylbenzene	3.75	4.22	3.75	113	100	70.0-130			11.8	25	
1,2,4-Trimethylbenzene	3.75	4.18	3.75	111	100	70.0-130			10.8	25	
1,3-Dichlorobenzene	3.75	4.13	3.75	110	100	70.0-130			9.64	25	
1,4-Dichlorobenzene	3.75	4.26	3.81	114	102	70.0-130			11.2	25	
Benzyl Chloride	3.75	4.28	3.74	114	99.7	70.0-152			13.5	25	
1,2-Dichlorobenzene	3.75	4.17	3.68	111	98.1	70.0-130			12.5	25	
1,2,4-Trichlorobenzene	3.75	4.35	3.68	116	98.1	70.0-160			16.7	25	
Hexachloro-1,3-butadiene	3.75	4.39	3.72	117	99.2	70.0-151			16.5	25	
Naphthalene	3.75	4.30	3.65	115	97.3	70.0-159			16.4	25	
Allyl Chloride	3.75	3.80	3.86	101	103	70.0-130			1.57	25	
2-Chlorotoluene	3.75	4.16	3.82	111	102	70.0-130			8.52	25	
Methyl Methacrylate	3.75	3.65	3.47	97.3	92.5	70.0-130			5.06	25	
Tetrahydrofuran	3.75	3.73	3.63	99.5	96.8	70.0-137			2.72	25	
2,2,4-Trimethylpentane	3.75	3.95	3.90	105	104	70.0-130			1.27	25	
Vinyl Bromide	3.75	3.38	3.79	90.1	101	70.0-130			11.4	25	
Isopropylbenzene	3.75	4.11	3.79	110	101	70.0-130			8.10	25	

60.0-140

















99.8

93.3

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

DATE/TIME:

01/24/20 12:44

Volatile Organic Compounds (MS) by Method TO-15

L1181707-03,04

Method Blank (MB)

(MB) R3493495-1 01/23/20	MB) R3493495-1 01/23/20 10:15							
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	ppbv		ppbv	ppbv				
Tetrachloroethylene	U		0.0497	0.200				
(S) 1,4-Bromofluorobenzene	94.9			60.0-140				





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

(LCS) R3493495-2 01/23	/20 10:54 • (LCS	D) R3493495	-3 01/23/20 11:	33						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
Tetrachloroethylene	3.75	4.69	4.71	125	126	70.0-130			0.426	25
(S) 1,4-Bromofluorobenzene	1			104	97.0	60.0-140				













PAGE:

21 of 24

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

The identification of the analyte is acceptable; the reported value is an estimate.



















ACCREDITATIONS & LOCATIONS





State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky ^{1 6}	90010
Kentucky ²	16
Louisiana	Al30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA - ISO 17025 5	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



















ACCOUNT: PROJECT: SDG: Applied GeoTech 1200034

L1181707

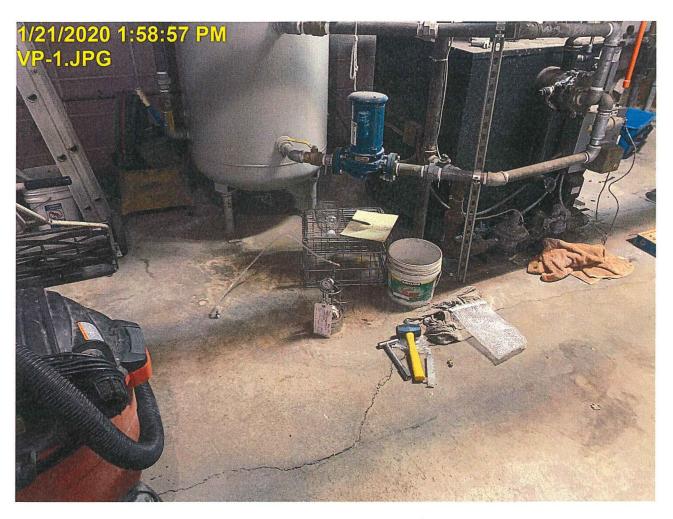
DATE/TIME: 01/24/20 12:44

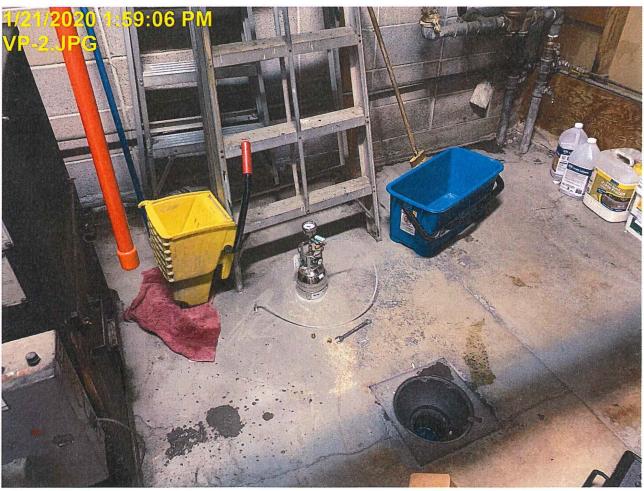
10											35 55 55 35 36 36 37 58
Company Name	Address: BC West Sund Indy, Ut	ly Pakway		Billing Information); 		Ana	llysis	Chain of Custody Pace A National Cent	Page of nalytical*	
Project Description:	FOXS - 566-6399 CII	Juv Ly ent Project #	203Y	Email To: City/State Collected: Lab Project #	zin soa Oglden	o agec Ut			12065 Lebanon Rd Mount Juliet, TN 371 Phone: 615-758-585 Phone: 800-767-5855 Fax: 615-758-5859 L# /// F17	8 1707	
Collected by (si	140 AMCINGA	Rush? (Lab MUST Same Day Next Day Two Day Three Day	200% 100% 50%	Email?N	No ∠ Ŷes	esults Needed 1/2 Canister P	ressure/Vacuum	707		Template: Prelogin: TSR: PB: Shipped Via:	
Sample ID	Sample	Description	Can#	Date	Time	Initial	Final			Rem./Contaminant	Sample # (lab only)
PRT-1	PRT#		7609	1/20/20	1010	2)	3				-01
PRT-2	PRT#2	- He	5813	1/20/20	1055	27 27 24	7				- 02
VP-1	Vaga- Pi	n-West	8598	1/21/20	150		5	/			- 07
UP-2	PRT#2 Vyar Pi Vyar F	in - East	8542	1/2/120	155		1				204
Zowe in the					145 E				(1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		
4						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Remarks:									Hold	i #	
Relinquished b	(Signature)	Date:	Time:	7 Received b	y: (Signature)		Samples returned □ FedEx □ C Temp: °C				use only) 0\
Relinquished by	PNSL y:(Signature)	CUT 1/21/	7020 1700 Time:	The second second second	or lab by: (Sig. atu	re)	Amb Date: 1/22/20	Time: 0915	pH C	Seal Intact: Y Checked: NCF	N LNA

APPENDIX C SITE PHOTOGRAPHS











From NearMap Aerial Photograph September 11, 2020



Approximate Scale 1 inch = 45 feet FORSEY CLEANERS & LAUNDRY 856 25TH STREET OGDEN, UTAH



From NearMap Aerial Photograph September 11, 2020



Approximate Scale 1 inch = 45 feet FORSEY CLEANERS & LAUNDRY 856 25TH STREET OGDEN, UTAH



From NearMap Aerial Photograph September 11, 2020





Approximate Scale 1 inch = 45 feet

FORSEY CLEANERS & LAUNDRY 856 25TH STREET OGDEN, UTAH

1210149

AFEL



From NearMap Aerial Photograph September 11, 2020 TCE (mg/L)

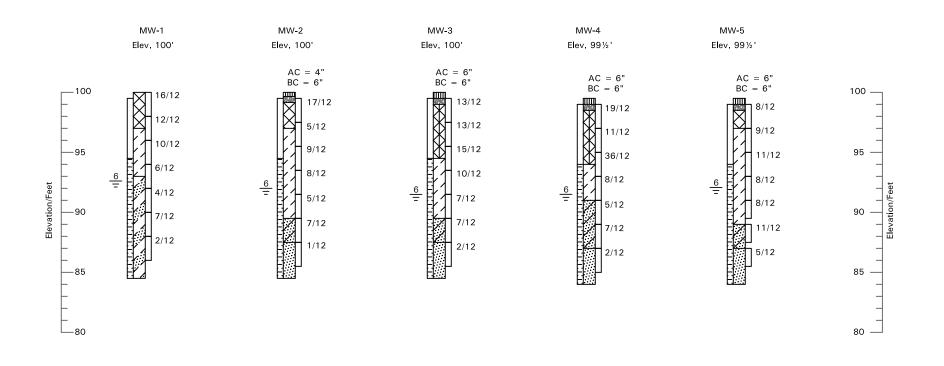


Approximate Scale 1 inch = 45 feet

FORSEY CLEANERS & LAUNDRY 856 25TH STREET OGDEN, UTAH

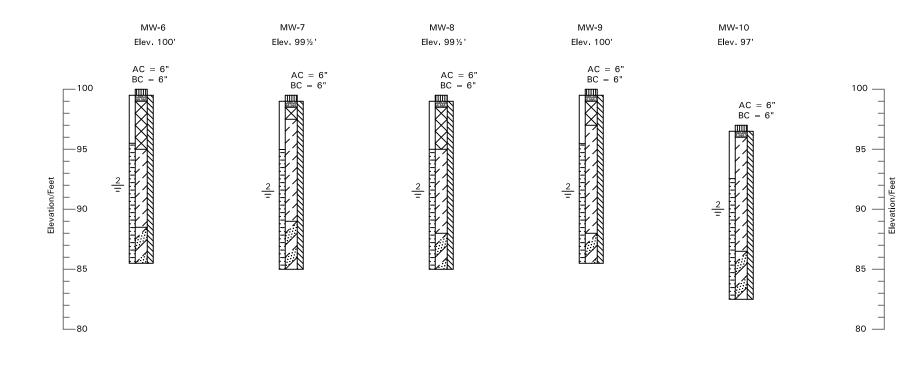
1210149

AFET



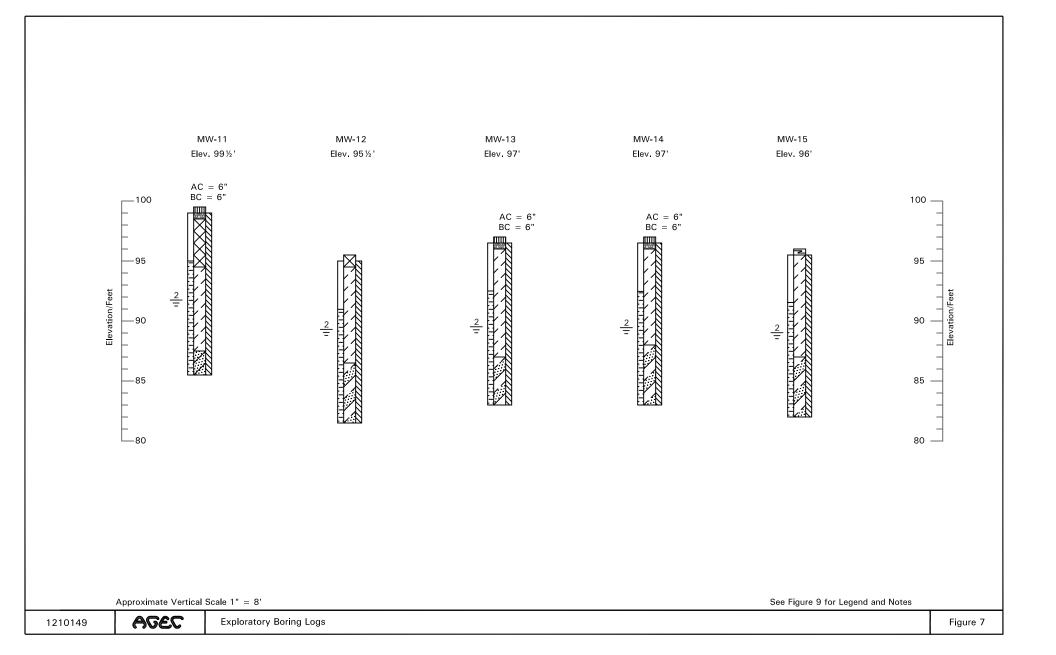
Approximate Vertical Scale 1" = 8'

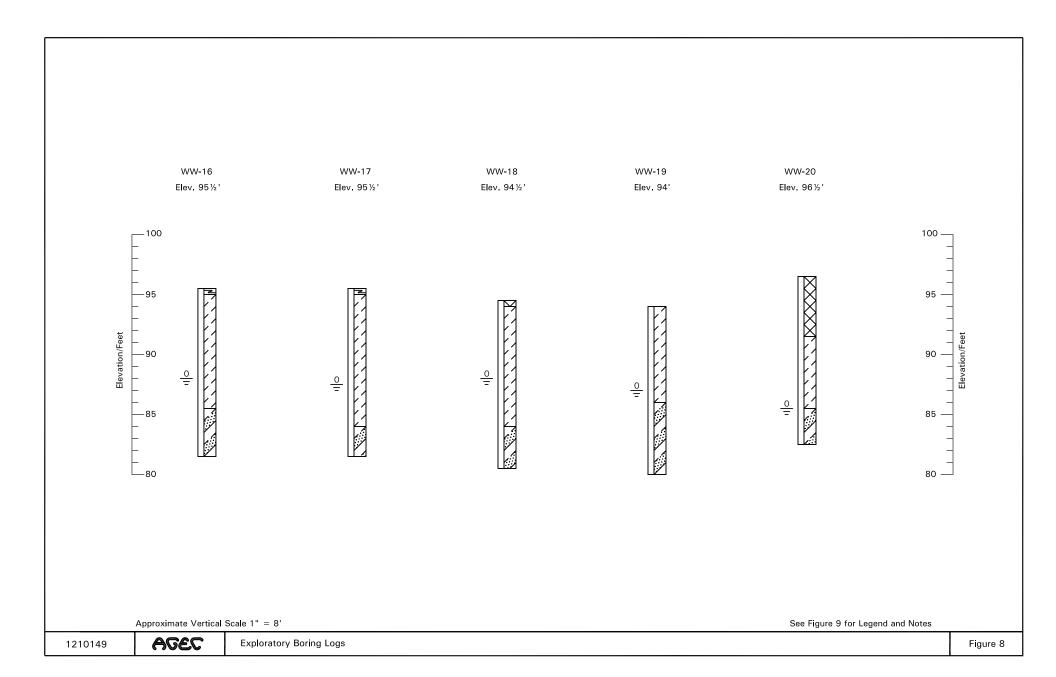
See Figure 9 for Legend and Notes



Approximate Vertical Scale 1" = 8'

See Figure 9 for Legend and Notes





Asphaltic Concrete, dense, dry, black, poor to good condition. Base Course; silty gravel with sand, moist, brown, angular aggregates. Fill; lean clay to sandy lean clay to silty gravel with sand, moist, dark brown to brown to dark gray, petroleum hydrocarbon odor in MW-1 and MW-2. Lean Clay (CL); sandy, stiff to medium stiff, moist, dark brown to brown, slight petroleum hydrocarbon odor in MW-2. Silty Sand (SM); loose to medium dense, moist, light brown. Poorly-graded Sand (SP); slightly gravelly, medium dense, wet, brown. Poorly-graded Sand with Silty Sand (SP/SM); medium dense, moist, brown to gray. Poorly-graded Gravel with Sand (GP); loose to very dense, moist to wet, brown to gray, petroleum hydrocarbon odor in MW-2. Poorly-graded Gravel with Silt and Sand (GP-GM); medium dense, moist to wet, gravish brown. 10/12 California Drive sample taken. The symbol 10/12 indicates that 10 blows from a 140-pound automatic hammer falling 30 inches were required to drive the sampler 12 inches. Indicates continuous soil sample taken. The samples were obtained with disposable acetate liners. Indicates slotted 1½-inch PVC pipe installed in the boring to the depth shown. Indicates solid 1½-inch PVC pipe installed in the boring to the depth shown.

Indicates the depth to free water and number of days after drilling the measurement

NOTES:

- Borings MW-1 to MW-5 were drilled on December 3, 2020 using direct push equipment. Borings MW-6 to MW-10 were drilled on January 20, 2021. Borings MW-11 to MW-15 were drilled on February 8, 2021. Borings MW-16 to MW-20 were drilled on March 4, 2021.
- Locations of the borings were measured approximately by pacing from features shown on the site plan provided.
- Elevations of the borings were measured by automatic/hand level and refer to the benchmark shown on Figure 2.
- The boring locations and elevations should be considered accurate only to the degree implied by the method used.
- 5. The lines between materials shown on the boring logs represent the approximate boundaries between material types and the transitions may be gradual.
- 6. The water level readings shown on the logs were made at the time and under the conditions indicated. Fluctuations in the water level will occur with time.

was taken.

AGEC

LEGEND:

Soil and Groundwater Analytical Results Forsey's Laundry

Table 1 - Soil Results

Sample	Depth	Date	PID	MEK*	PCE**	TCE***
	(feet)		(ppm)	(mg/kg)	(mg/kg)	(mg/kg)
GP-1	0 to 2	1/20/2020	0.4	0.0306	0.0104	ND
GP-1	7	1/20/2020	5.4	0.031	0.0108	ND
GP-2	0 to 2	1/20/2020	0	0.0275	0.0135	ND
GP-2	7	1/20/2020	1.1	0.0324	ND	ND
MW-1	6 to 8	12/22/2020	0	ND	ND	ND
MW-2	6½ to 8½	12/22/2020	0.1	ND	0.00279	ND
MW-3	6½ to 8½	12/22/2020	0.1	ND	0.018	ND
MW-4	6½ to 8½	12/22/2020	0.2	ND	0.00385	ND
MW-5	6½ to 8½	12/22/2020	0.1	ND	0.00336	ND
MW-6	6 to 7	1/20/2021	0.4	ND	ND	ND
MW-6	10 to 11	1/20/2021	0.5	ND	ND	ND
MW-7	6½ to 8½	1/20/2021	0.6	ND	0.0221	ND
MW-8	6½ to 8½	1/20/2021	0.3	ND	ND	ND
MW-9	6½ to 8½	1/20/2021	0.3	ND	ND	ND
MW-10	6½ to 8½	1/20/2021	0.2	ND	0.0138	ND
MW-11	7 to 8	2/8/2021	0.2	ND	ND	ND
MW-12	9 to 10	2/8/2021	0.2	ND	0.239	0.0028
MW-13	8 to 9	2/8/2021	0.1	ND	ND	ND
MW-14	7 to 8	2/8/2021	0.2	ND	0.0318	ND
MW-15	6 to 7	2/8/2021	0.2	ND	0.103	ND
MW-16	6 to 7	3/4/2021	0.5	ND	ND	ND
MW-17	6½ to 7½	3/4/2021	0.3	ND	0.0202	ND
MW-18	5 to 6	3/4/2021	0.2	ND	ND	ND
MW-19	6 to 7	3/4/2021	0.4	ND	ND	ND
MW-20	8 to 9	3/4/2021	0.2	ND	ND	ND
MW-20	10 to 11	3/4/2021	0.3	ND	ND	ND
November	2020 EPA R	esidential SL		27,000	24	0.94
November	2020 EPA In	dustrial SL		190,000	100	6

ND = Non Detect NA = Not Applicable

^{*} MEK identified as 2-Butadone in lab results

^{**} PCE identified as tetrachloroethene in lab results

^{***} TCE identified as trichloroethene in lab results

Table 2 - Groundwater Results

Sample	Depth	Date	PCE*	TCE**
	(feet)		(mg/L)	(mg/L)
GP-1	7	1/20/2020	0.0422	ND
GP-2	7	1/20/2020	0.00661	ND
MW-1	7.5	12/28/2020	ND	ND
MW-1-Dup	7.5	12/28/2020	ND	ND
MW-2	8.2	12/28/2020	0.0584	ND
MW-3	8.2	12/28/2020	0.739	0.00624
MW-4	8.1	12/28/2020	0.00585	ND
MW-5	7.8	12/28/2020	ND	ND
Trip Blank	NA	12/28/2020	ND	ND
MW-6	8.3	1/20/2021	0.0224	ND
MW-6-Dup	8.3	1/20/2021	0.0213	ND
MW-7	8.2	1/20/2021	0.204	ND
MW-8	8.4	1/20/2021	0.0372	ND
MW-9	8.7	1/20/2021	ND	ND
MW-10	6.4	1/20/2021	0.226	0.0127
Trip Blank	NA	1/20/2021	ND	ND
MW-11	7.8	2/10/2021	0.00729	ND
MW-12	6.2	2/10/2021	0.833	0.026
MW-12-Dup	6.2	2/10/2021	0.771	0.0258
MW-13	7.5	2/10/2021	0.002	ND
MW-14	7.5	2/10/2021	0.0326	ND
MW-15	7	2/10/2021	0.135	0.00619
Trip Blank	NA	2/10/2021	ND	ND
MW-16	5.7	3/10/2021	ND	ND
MW-17	6.8	3/10/2021	0.388	0.0102
MW-17-Dup	6.8	3/10/2021	0.417	0.0114
MW-18	5.6	3/10/2021	ND	ND
MW-19	5.6	3/10/2021	ND	ND
MW-20	8.9	3/10/2021	ND	ND
Trip Blank	Trip Blank NA 3/10/2021		ND	ND
November 202	0 EPA MCL		0.005	0.005

ND = Non Detect NA = Not Applicable

Above MCL

^{*} PCE identified as tetrachloroethene in lab results

^{**} TCE identified as trichloroethene in lab results

Table 3 - Soil Gas Analytical Results Forsey's Laundry

	CAS	Toxicity	PRT-1	PRT-2	VP-1	VP-2	Residential Target Sub-Slab and Near-source Soil Gas Concentration (TCR = 1E-06 or THQ = 0.1) C_{sg} , Target	Commercial Target Sub-Slab and Near-source Soil Gas Concentration (TCR = 1E-06 or THQ = 0.1) C_{sg} , Target
Chemical	Number	Basis	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(μg/m ³)	(µg/m³)
Acetone	67-64-1	NC	122	31.1	81.7	96.7	107,000	451,000
Benzene	71-43-2	CA	3.05	7.19	1.09	1.59	12	52.4
Butadiene, 1,3-	106-99-0	CA	ND	26.8	ND	ND	3.12	13.6
Carbon Disulfide	75-15-0	NC	ND	7.66	ND	ND	2,430	10,200
Carbon Tetrachloride	56-23-5	CA	2.03	ND	ND	ND	15.6	68.1
Chloroform	67-66-3	CA	ND	ND	ND	17	4.07	17.8
Chloromethane	74-87-3	NC	1.31	0.498	0.764	ND	313	1,310
Cyclohexane	110-82-7	NC	ND	ND	ND	0.813	20,900	87,600
Dichloroethene, 1,1-	75-35-4	NC	ND	ND	2.37	ND	695	2,920
Dichloroethene, cis 1,2-	156-59-2		ND	ND	19.6	9.67	NA	NA
Dioxane, 1,4-	123-91-1	CA	ND	ND	ND	6.56	18.7	81.8
Ethanol	64-17-5		50.5	7.52	30.4	27.5	NA	NA
Ethylbenzene	100-41-4	CA	1.08	1.21	1.68	ND	37.4	164
Ethyltoluene, 4-	622-96-8		ND	ND	2.91	ND	NA	NA
Trichlorofluoromethane	75-69-4		1.25	ND	2.24	1.31	NA	NA
Dichlorodifluoromethane	75-71-8	NC	ND	1.94	2.94	2.32	NA	NA
Heptane	142-82-5	NC	1.43	1.43	0.83	2.42	1,390	5,840
Hexane, N-	110-54-3	NC	2.92	4.05	1.23	6.49	2,430	10,200
Isopropylbenzene	98-82-8		ND	ND	2.18	ND	1,390	5,840
Methylene Chloride	75-09-2	CA	2.57	0.847	ND	1.24	2,090	8,760
2-Butanone (MEK)	78-93-3	NC	7.93	11.2	12.3	5.07	17,400	73,000
Naphthalene	91-20-3	CA	ND	ND	5.97	ND	2.75	12
2-Propanol (Isopropanol)	67-63-0	NC	5.92	ND	7.67	15	695	2,920
Propene (Propylene)	115-07-1	NC	ND	164	3.99	ND	10,400	43,800
Styrene	100-42-5	NC	ND	1.66	ND	ND	3,480	14,600
Tetrachloroethylene	127-18-4	CA	25.4	468	37,100	74,000	139	584
Toluene	108-88-3	NC	7.84	6.93	3.06	2.5	17,400	73,000
Trichloroethylene	79-01-6	NC	ND	ND	399	427	6.95	29.2
Trimethylbenzene, 1,2,4-	95-63-6	NC	2.05	1.03	4.49	ND	209	876
Trimethylpentane, 2,2,4-	540-84-1		5.05	ND	ND	ND	NA	NA
Xylene, M & P-	1330-20-7	NC	4.94	2.63	4.22	ND	348	1,460
Xylene, o-	95-47-6	NC	1.78	1.09	1.22	ND	348	1,460

NA = Not Available - No EPA Target ND = Non Detect

Table 4 - Monitoring Well Construction Data Forsey Cleaners

Monitor Well ID	Drilling Method	Total Depth	Date Installed	Diameter/Well Material	Top of Casing Elevation	Screened Interval	Sand Pack	Depth to Water BTOC	GW Elevation RSB
		(BTOC)			(RSB)	(ft)	(ft)	(ft)	(ft)
MW-1	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.61	5 to 15	3 to 15	7.16	92.45
MW-2	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.74	5 to 15	3 to 15	7.88	91.86
MW-3	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.42	5 to 15	3 to 15	7.93	91.49
MW-4	Direct Push	15 feet	12/22/2020	1 1/2- inch/PVC	99.25	5 to 15	3 to 15	7.78	91.47
MW-5	Direct Push	15 feet	12/22/2020	1 ½- inch/PVC	99.14	5 to 15	3 to 15	7.53	91.61
MW-6	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.44	5 to 15	3 to 15	8.02	91.42
MW-7	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	98.96	5 to 15	3 to 15	7.86	91.10
MW-8	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.18	5 to 15	3 to 15	8.13	91.05
MW-9	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	99.78	5 to 15	3 to 15	8.36	91.42
MW-10	Direct Push	15 feet	1/20/2021	1 ½- inch/PVC	96.52	5 to 15	3 to 15	6.04	90.48
MW-11	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	98.97	4 to 14	3 to 14	7.70	91.27
MW-12	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	95.11	4 to 14	3 to 14	6.00	89.11
MW-13	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	96.77	4 to 14	3 to 14	7.44	89.33
MW-14	Direct Push	14 feet	2/8/2021	1 1/2- inch/PVC	96.74	4 to 14	3 to 14	7.50	89.24
MW-15	Direct Push	14 feet	2/8/2021	1 ½- inch/PVC	95.66	4 to 14	3 to 14	9.92	85.74
MW-16	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	95.34	4 to 14	3 to 14	5.75	89.59
MW-17	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	95.44	4 to 14	3 to 14	6.85	88.59
MW-18	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	94.48	4 to 14	3 to 14	5.64	88.84
MW-19	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	94.22	4 to 14	3 to 14	5.61	88.61
MW-20	Direct Push	14 feet	3/4/2021	1 ½- inch/PVC	96.58	4 to 14	3 to 14	8.91	87.67

Depth to water measured in all 20 wells on 03/10/2021

BTOC = Below Top of Casing

RSB = Relative to Site Benchmark

APPENDIX G RITE AID RCRA GENERATOR FILE

ONB#	2050-0024;	Expires	11/30/2011

OK DS

RECEIVED

FO The Sta	ND MPLETED RM TO: e Appropriate ite or Regional ice.	United States Environmental Protection Agency RCRA SUBTITLE C SITE IDENTIFICATION FORMAH DIVISION UF SOLID & HAZARDOUS WAS IN THE PROPERTY OF								
1,	Reason for	Reason for Submittal:								
	Submittal	To provide an Initial Notificatio	n (first time su	ubmitting site ident	ification in	formation / to obtain	ı an EPA IC) number		
	MARK ALL	To provide a Subsequent Notit	fication (to up	date site identificat	ion informa	ation for this locatio	n)			
{	BOX(ES) THAT APPLY	As a component of a First RCF			• •					
		As a component of a Revised			•	,	ent #)		
		As a component of the Hazard		•		•				
		Site was a TSD facility and/ >100 kg of acute hazardous LQG regulations)								
2.	Site EPA ID Number	EPAID Number UTROC	201010	1114310	}		,			
3.	Site Name	Name: Rite Aid # 6146								
4.	Site Location	Street Address: 851 24Th Street								
	Information	City, Town, or Village: Ogden				County:				
		State: UT	Country: U	.S.A.		Zip Code: 84401				
5.	Site Land Type	Private X County Distr	rict Fed	deral Tribal	Ņ	Municipal Si	tate	Other		
6.	NAICS Code(s)	A. 446110	[]	c.			1			
	for the Site (at least 5-digit codes)	В		D.						
7.	Site Mailing	Street or P.O. Box: 30 Hunter Lane								
	Address	City, Town, or Village: Camp Hill								
		State: PA	Country: U	.S.A.		Zip Code: 17011				
8.	Site Contact	First Name: Stephanie	MI: A	Last: Caiati						
	Person	Title: Senior Manager, Environmental	-1							
		Street or P.O. Box: 30 Hunter Lane								
		City, Town or Village: Camp Hill	- What has a second and a second							
		State: PA	Country: U	.S.A.		Zip Code: 17011				
		Email: Sscalati@Riteaid.com								
		Phone: (717)730-8225	Ex	:t.:		Fax: (717)975-37	61			
9.	Legal Owner and Operator	A. Name of Site's Legal Owner: Rite	Aid Corporat	ion		Date Became Owner:	17/1997			
of the Site		Owner Type: X Private County	District	Federal	Tribal	Municipal	State	Other		
		Street or P.O. Box: 30 Hunter Lane								
		City, Town, or Village: Camp Hill				Phone: (717)761	-2633			
		State: PA	Country: U	.S.A.		Zip Code: 17011				
		B. Name of Site's Operator: Rite Aid	Corporation			Date Became Operator: 5	17/199.	7		
		Operator Type: X Private County	District	Federal	Tribal	Municipal	State	Other		

EP.	a ID Nur	nber								OMB#: 2050-0024; Expires 11/30/2011
10.	Type of Mark "Y	Regula (es" or	ted Wa "No" fo	ste Activity (at your or all <u>current</u> activiti	site) es (as of the date s	ubmitting the	for	m); con	ple	te any additional boxes as instructed.
A.	Hazardo	ous Wa	ste Acti	vities; Complete all	parts 1-7.					
ΥX	N			or of Hazardous Was mark only one of th		or c.	Υ	ΝX	2.	Transporter of Hazardous Waste If "Yes", mark all that apply.
		a.	LQG:	(2,200 lbs./mo.) Generates, in a	ny calendar month, 1 or more of hazardou ny calendar month, c	us waste; or or				a. Transporter b. Transfer Facility (at your site)
				lbs./mo) of acute in any calendar accumulates at	any time, more than e hazardous waste; o month, or any time, more than acute hazardous sp	or 100 kg/mo	Υ	ΝX	3.	Treater, Storer, or Disposer of Generates, Hazardous Waste Note: A hazardous waste permit is required for these activities.
				material.	acute nazardous sp	III Cleanup	Υ	NX	4.	Recycler of Hazardous Waste
		b.	SQG:	100 to 1,000 kg/ acute hazardous	mo (220 – 2,200 lbs s waste.	./mo) of non-				
				G: XLess than 100 k hazardous wast	e .		Υ	ΝX	5.	Exempt Boiler and/or Industrial Furnace If "Yes", mark all that apply. a. Small Quantity On-site Burner Exemption
		IT	"Yes" a	above, indicate othe	r generator activiti	es.				·
Y	ΝX	d.	time e	Term Generator (ger event and not from on le an explanation in t	-going processes).	If "Yes",				 b. Smelting, Melting, and Refining Furnace Exemption
Υ	ΝX	e.	United	States Importer of F	lazardous Waste		Υ	ΝX	6.	Underground Injection Control
Y	ΝX	f.	Mixed	Waste (hazardous a	nd radioactive) Gen	erator	Υ	NΧ	7.	Receives Hazardous Waste from Off-site
В.	Univers	al Wast	e Activ	rities; Complete all	oarts 1-2.		c.	Used (Oil A	Activities; Complete all parts 1-4.
	Y N	X 1.	Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) [refer to your State					ΝX	1.	Used Oil Transporter If "Yes", mark all that apply.
			regulations to determine wha types of universal waste man		what is regulated].	is regulated]. Indicate				a. Transporter
			types mark	of universal waste all that apply.	managed at your s	ite. If "Yes",				b. Transfer Facility (at your site)
			a. Ba	tteries			Y	ΝX	2.	Used Oil Processor and/or Re-refiner If "Yes", mark all that apply.
				sticides						a. Processor
				rcury containing equ	ipment					b. Re-refiner
			d. Lar	·						b. Re-leiner
			e.	Other	(specify)		Υ	NΧ	3.	Off-Specification Used Oil Burner
			f. a. Oth	Other her (specify)	(specify)		Y	ΝX	4.	Used Oil Fuel Marketer
			J							If "Yes", mark all that apply.
	Y N	X 2.	Destir Note: activit	nation Facility for U A hazardous waste y.	niversal Waste permit may be requi	red for this				 a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off- Specification Used Oil Burner b. Marketer Who First Claims the Used Oil Meets the Specifications
1							ļ			

EF	PA ID Numbei	r						(OMB#: 2050-0024; I	Expires 11/30/2011
D.	Eligible Acad	demic Entiti	es with	Laborator	ies—Notii	fication f	or opting in	nto or withdrawin	g from managing lab	oratory hazardous
	™ You <u>m</u> ı					ou are el	igible to ma	nage laboratory ha	azardous wastes pursi	uant to 40 CFR Part
	See the it	o or currently tem-by-item ege or Unive	instruc	ing under 4 ctions for c	0 CFR Pa	rt 262 Su s of types	bpart K for t of eligible	the management of academic entities	of hazardous wastes in es. Mark all that appl	ı laboratories y:
		-	•	s owned by	or has a f	ormal wri	tten affiliatio	on agreement with	a college or university	,
									a college or university	
	2. Withdrawi	ng from 40 (CFR Par	t 262 Subp	art K for th	ne manag	ement of ha	azardous wastes ir	n laboratories	
11.	Description of	of Hazardou	ıs Wast	e			···········	- To Commission		
Α.	Waste Codes your site. Lis spaces are no	st them in the	illy Reg e order t	ulated Haz hey are pre	ardous Wesented in	/astes. P	Please list thations (e.g.,	e waste codes of , D001, D003, F00	the Federal hazardous 7, U112). Use an add	wastes handled at litional page if more
D	001									
D	002									
D	007									
D	010									
D	009									
D	024									
P	001				. 					
P	075		<u></u>							
			······			<u> </u>				
В.	Waste Codes hazardous wa spaces are no	astes handle	legulate ed at you	ed (i.e., nor ir site. List	n-Federal) them in th	Hazardo e order th	us Wastes ney are pres	Please list the we	aste codes of the Stat ations. Use an additio	e-Regulated nal page if more
							-			

					· - · · · · · · · · · · · · · · · · · ·					

OMB#: 2050-0024; Expires 11/30/2011

12.	12. Notification of Hazardous Secondary Material (HSM) Activity								
Y	Nx	Are you notifying under 40 CFR 260.secondary material under 40 CFR 26	42 that you will begin managing, are managing 11.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)	, or will stop managing hazardous ?					
	If "Yes", you <u>must</u> fill out the Addendum to the Site Identification Form: Notification for Managing Hazardous Secondary Material.								
13.	3. Comments								
	_								
			AND THE RESIDENCE OF THE PROPERTY OF THE PROPE						
	-								
		1							
-									
14.	4. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. For the RCRA Hazardous Waste Part A Permit Application, all owner(s) and operator(s) must sign (see 40 CFR 270.10(b) and 270.11).								
		f legal owner, operator, or an representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)					
	Ø,	Majatt	STEPHANIE A. CAIAM	11/2/11					
	0		SR. MGR, EH+S	, ,					



LQG OSHW-2015-011419 COMPLIANCE EVALUATION INSPECTION

Date of Inspection: October 26, 2015

Facility: Rite Aid Store #06146

Facility Address: 851 24th Street, Ogden Utah

84401

County: Weber

EPA ID # UTR000011430

Latitude / Longitude: 41.221816-111.958042

Generator Status: LQG

Arrival / Departure Time: 1:40 p.m. to 2:45 p.m.

Weather Conditions: Sunny, about 70°F

Report Prepared By: Alex Pashley

Names of Inspectors: Alex Pashley, DWMRC

LHD Notifications / Date: Weber /Morgan by phone

message on 10-26-2015

Facility Notification / Date: Unannounced

Applicable Rules: **R315:** R315-5, R315-13,

R315-16 and R315-9 of the Utah Administrative Code

FACILITY DESCRIPTION AND WASTE MANAGEMENT OPERATIONS

Rite Aid Corporation is one of the nation's leading drugstore chains. They have approximately 4,600 stores in 31 states and the District of Columbia. Rite Aid Store #6146 is a retail store and pharmacy located in Ogden, Utah.

CREDENTIALS, PURPOSE AND SCOPE:



The inspector met with, and presented credentials to, Nick Nicholls, the assistant store manager. Mr. Don Higley is the store manager, but was not present during the inspection. The purpose of the inspection was to evaluate Rite Aid's hazardous waste management practices for compliance with R315 of the Utah Administrative Code (the Rules). The scope of the inspection included a tour of the hazardous waste collection areas and a review of the required records and plans. The Weber/Morgan Health Department was notified of the inspection but did not participate.

MANAGEMENT ACTIVITIES:

Rite Aid management at the corporate level (in conjunction with Stericycle) has put together a hazardous waste management program, which is the same for all of their stores nationwide.

Waste streams generated by Rite Aid are discarded or expired consumer products and pharmaceuticals that Rite Aid corporate has decided to manage as hazardous wastes. The wastes are accumulated in five-gallon storage bins (see photos). They are located in the product receiving and storage room behind the main store. At the time of the inspection, there were six bins that were either full of, or were accumulating wastes. One of the six bins contained a spill kit. There were also six boxes of waste, over the counter medicines, waiting for disposal pickup. The boxes were properly labeled and dated. Also, there was another large container (garbage can style) with a locking lid, and is chained to the floor, that is used to accumulate DEA controlled pharmaceuticals. All of the accumulation containers were closed, labeled, and dated appropriately. Also, each item being disposed of is placed into a labeled plastic bag, prior to being placed into the bins. A bin for the collection of waste pharmaceuticals was located in the pharmacy. It was empty. Stericycle has been contracted to pick up their waste and ships it to 2l'st Century in Nevada. Pick-ups are scheduled so that accumulation times are less than 90 days.

Records related to the management of hazardous waste were reviewed. Four manifests randomly picked from the past last two years, were reviewed. They were in good order. Land Disposal Notification forms were with all of the manifests.

Inspections of the hazardous waste accumulation areas were being conducted on at least a weekly basis, however, inspections were not being documented.

The Contingency Plan and Emergency Procedures (CPEP) plan was reviewed. It was developed by Ride Aid Corporate and is basically the same for their stores nationwide. Upon reviewing and asking questions about the plan, it was apparent that the assistant store manager and the person who manages the wastes (did not get his name), had not been trained on it. The CPEP contains a section, where the individual stores are required to write in the names and phone numbers of emergency coordinators and emergency responders. It was blank. Both Mr. Nicholls and the waste manager indicated that they had not reviewed it. However, it is maintained in the same binder as the hazardous waste



manifests, which were in good order. It is required, under the LQG rules, that they receive training within the first six months of hire and annually thereafter specific to the CPEP. It appeared that they had, had some trainings specific to the waste containerization and management. Mr. Nicholls did not know if the CPEP had been sent to the local emergency responders.

Spent fluorescent lamps are managed as universal wastes.

Based on the amount of hazardous waste generated at Rite Aid, they would normally be a SQG or maybe even a CESQG, however because Rite Aid occasionally disposes of offspec or returned Nicorette gum, an acutely hazardous waste, they are notified as a LQG. Review of the hazardous waste manifest, revealed that Nicorette gum has been disposed of, a few times over the last year.

COMPLIANCE STATUS:

<u>R315-5</u>	Hazardous Waste Generator Requirements
5-1.11	Determination of Whether a Waste is a Hazardous Waste OK
5-1.12	EPA Identification Numbers UTR000011430
5-2.20	Manifest OK
5-3.30-3.33	Packaging, Labeling, Marking, and Placarding OK
5.3.34	Accumulation Time OK
	Container Management OK
	Tank Management N/A
	Preparedness and Prevention Contingency and Emergency Procedures plan was missing emergency coordinators and outside responder's names and phone numbers. Also, Mr. Nicholls did not know if the CPEP had been sent to the local emergency responders, i.e., police, fire and hospital.
5-4.40	Recordkeeping OK
5-4.41	Biennial Reporting?
5-4.42	Exception Reporting N/A



5-4.43.1 <u>Additional Reporting N/A</u>

R315-13-1 Land Disposal Restrictions

13-1 <u>Land Disposal Restrictions OK</u>

R315-16 Standards for Universal Waste OK

R315-9 Spill Response

Inspector Signature: My Pashley

October 27, 2015

Date

ATTACHMENTS:

1. Photos

2. SQG Checklist

SQG Evaluation Form



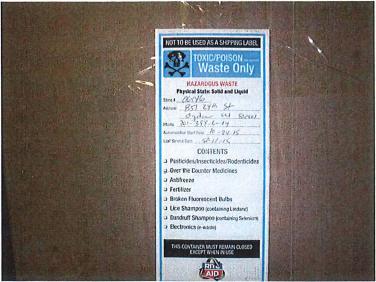


Rite Aid Ogden



Over the counter medicines containerized for disposal.





Over the counter waste medicines, label.



Hazardous waste containers for various listed and characteristic wastes.

Hazardous Waste Inspection Manifest Checklist

Requirements		Manifests	Reviewed	
Manifest Number (box 4)	#006366016	#006365834	#00585770n	# 605407915
Generator EPA ID# R315-5-2 (box 1)	vk	(N)	Reviewed #G05857700	1 CAL
Generator information: Mailing Address (box 5) Phone Number	1			5
Transporter #1 information: Company Name (box 6) EPA ID# (box 6)				
Transporter #2 information: Company Name (box 7) EPA ID# (box 7)				
Designated Facility information: Name and Address (box 8) EPA ID# (box 8) Phone Number (box 8)				
Waste Shipping requirements: DOT Description (Including proper name, Hazard class, and ID #) (box 9b) (box 9a "X" if hazardous materials) Containers: No & Type (box 10) Total Quantity (box 11) Unit - Wt/Vol (box 12) Waste Codes (box 13)				
Special Handling Instructions (box 14)				
Manifest Certifications: Generator's Signature (box15) International Shipments (box 16) Transporter's Signature (box 17) Discrepancy Indication (box 18) Hazardous Waste Report Management	,			
Method Codes (box 19) Facility Signature (box 20)	W		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

Final Observations and Comments:				War farin Nicerita
Common container codes: DM - metal d	rum\barrel; DF - fiberba on Units of Measure: G -			

Date: 10 26 15

Hazardous Waste Inspection Preparedness and Prevention Measures

Nicl	C Nicholl	s passistanmanger Don History
INSPECTION ITEM		/ COMMENTS /
Is the facility maintained and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents?	R315-7-10.2 265.31 R315-5-3.34 262.34(a)(4)	nance letter
The facility must be equipped with items (1)-(4), identified below, unless it can be shown that hazardous waste managed at the site would not require the particular kind of equipment specified.	R315-7-10.3 265.32	04
1. Does the facility have an internal communications or alarm system capable of providing immediate emergency instruction to its personnel?	R315-7-10.3(a) 265.32(a)	ω ⁱ l
2. Does the facility have a device capable of summoning external emergency assistance to the facility (phone or two-way radio)?	R315-7-10.3(b) 265.32(b)	w d
3. Does the facility have portable extinguishers, fire control equipment (including special extinguishing equipment necessary for their facility), spill control equipment, and decontamination equipment?	R315-7-10.3(c) 265.32(c)	yan
4. Does the facility have water at adequate volume and pressure to supply water hoses, or foam producing equipment, or automatic sprinklers, or water spray systems?	R315-7-10.3(d) 265.32(d)	42)
Are facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment tested and maintained to assure its proper operation in time of an emergency?	R315-7-10.4 265.33	423
Do facility personnel have immediate access to an internal alarm or emergency communication device, either directly through visual or voice contact, while managing hazardous waste?	R315-7-10.5(a) 265.34(a)	40
Is there ever just one employee on the premises while the facility is operating? If yes, does that person have immediate access to device capable of summoning external emergency assistance?	R315-7-10.5(b) 265.34(b)	

Site:]	EPA #:	Date:

Hazardous Waste Inspection Preparedness and Prevention Measures

INSPECTION ITEM	CITATION	COMMENTS
Is aisle space maintained to allow the unobstructed movement of emergency personnel or equipment (unless aisle space is not needed for any of these purposes)?	R315-7-10.6 265.35	σίλ
The facility must arrange the following types of agreements or arrangements with local organizations (as appropriate):	R315-7-10.7(a) 265.37(a)	,
1. Has the facility made or attempted to make arrangements to familiarize local police, fire departments, and emergency response teams with the layout of the facility, character of the hazardous waste(s) managed, locations where facility personnel normally work, location of facility entrances and possible evacuation routes?	R315-7-10.7(a)(1) 265.37(a)(1)	?
2. Has the facility designated primary emergency authority to a specific police or fire department, when more than one police or fire department might respond in the event of an emergency?	R315-7-10.7(a)(2) 265.37(a)(2)	Store manger on 10.15
3. Have agreements with State emergency response teams, emergency responses contractors, and equipment suppliers been made?	R315-7-10.7(a)(3) 265.37(a)(3)	T :
4. Have arrangements been made to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or releases at the facility?	R315-7-10.7(a)(4) 265.37(a)(4)	?
If any State or local authorities have declined to enter into such arrangements, has the facility documented the refusal in the operating record?	R315-7-10.7(b) 265.37(b)	in

Site: Rite ATD Ogden

EPA#: VTKC000/143 Date: 10-26-2015

Hazardous Waste Inspection Contingency Plan and Emergency Procedures Checklist

INSPECTION ITEM	CITATION	COMMENTS
General Requirements: Have copies been distributed to all local police and fire departments, hospitals, and State and local emergency response teams that may be called upon for assistance?	R315-5-3.34 262.34(a)(4) R315-7-11.4(a) 265.53(a) R315-7-11.4(c) 265.53(b)	
Content of the Contingency Plan:		OY
1. Does the contingency plan describe the actions facility personnel will take to minimize the hazard to human health or the environment when responding to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste?	R315-7-11.3(a) 265.52(a)	
2. Does the contingency plan describe arrangements agreed to by local police and fire departments, hospitals, contractors, and State and local emergency response teams?	R315-7-11.3(c) 265.52(c)	
3. Does the contingency plan list the names, addresses, and phone numbers (office and home) of primary and all other persons qualified to act as emergency coordinator?	R315-7-11.3(d) 265.52(d)	
4. Does the contingency plan include a list of all emergency equipment at the facility? The list must be kept up-to-date, and include the location and a physical description of each item on the list, and a brief outline of the equipment's capability.	R315-7-11.3(e) 265.52(e)	
5. Does the contingency plan include an evacuation plan for the facility? This plan must include a description of signal(s) to be used to begin an evacuation, evacuation routes, and alternate evacuation routes.	R315-7-11.3(f) 265.52(f)	
Does the facility have a least one employee on-site or on-call at all time who is qualified to act as the emergency coordinator?	R315-7-11.6 265.55	,
Does the contingency plan include procedures for activation of the internal alarm by the emergency coordinator?	R315-7-11.7(a)(1) 265.56(a)(1)	
Does the contingency plan include provision for notifying the appropriate State and\or local response agencies?	R315-7-11.7(a)(2) 265.56(a)(2)	

Page 1 of 3

Inspectors Initials

Site:	EPA #:	Date:

Hazardous Waste Inspection Contingency Plan and Emergency Procedures Checklist

INSPECTION ITEM	CITATION	COMMENTS
Does the contingency plan outline the procedure(s) that the emergency coordinator will follow to immediately identify the character, source, amount, and extent of released material?	R315-7-11.7(b) 265.56(b)	SY
Does the contingency plan include procedures for the emergency coordinator to follow in order to assess possible hazards to human health or the environment?	R315-7-11.7(c) 265.56(c)	
If it is determined that the incident could threaten human health or the environment, outside the facility, the emergency coordinator must notify the appropriate local, State and Federal agencies. Does the contingency plan include provision for notifying the appropriate agencies? Do the notification measures include information to be reported (name and telephone # of reporter, name and address of facility, name and quantity of material(s) involved, extent of injuries, and possibility of exposure outside the facility), and identify the National Response Center and the State as parties to be notified?	R315-7-11.7(d)(1) and (d)(2) 265.56(d)(1) and (d)(2)	
Does the plan include procedure to prevent the spread of the incident to other hazardous waste at the facility?	R315-7-11.7(e) 265.56(e)	St
Are measures included to monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, when it is necessary to shut-down operations as a response to an incident?	R315-7-11.7(f) 265.56(f)	\\
Does the contingency plan provide procedures to follow to manage the hazardous waste generated as a result of an incident?	R315-7-11.7(g) 265.56(g)	
Following implementation of the contingency plan, are provisions included to ensure that in the affected area(s):	R315-7-11.7(h) 265.56(h)	
1. No waste that may be incompatible with the released material is treated, stored, or disposed of until the cleanup is complete.	R315-7-11.7(h)(1) 265.56(h)(1)	
2. That all equipment listed in the contingency plan is cleaned and fit for use prior to resuming activities at the facility.	R315-7-11.7(h)(2) 265.56(h)(2)	

Site: RITATO

Hazardous Waste Inspection Contingency Plan and Emergency Procedures Checklist

INSPECTION ITEM	CITATION	COMMENTS
Does the contingency plan include provisions for notifying the appropriate federal, State and local authorities that the facility is in compliance with 40 CFR 265.56(h) prior to resuming operations in the affected area?	R315-7-11.7(i) 265.56(i)	
The contingency plan must include provision for recording the incident requiring implementation of the contingency plan and specifying information that will be recorded and reported. The requirements are as follows:	R315-7-11.7(j) 265.56(j)	
Will a written report on the incident be provided to the Utah State Department of Environmental Quality within 15 days?	R315-7-11.7(j) 265.56(j)	
2. The following information needs to be recorded and reported: a) The name, address, and telephone # of the owner/operator; b) The name address, and telephone # of the facility; c) Date, time, and type of incident; d) Name and quantity of material(s) involved; e) Extent of injury, if any; f) An assessment of the actual or potential hazard to human health or the environment; and g) An estimate of the quantity and disposition of recovered material(s) that resulted from the incident.	R315-7-11.7(j)(1) thru (j)(7) 265.56(j)(1) thru (j)(7)	

Inspectors Initials_____

11/7/2012

Hazardous Waste Inspection Personnel Training Checklist

INSPECTION ITEM	CITATION	COMMENTS
Facility personnel must successfully complete classroom instruction or on-the-job training which teaches them to perform their jobs, such that the facility is operated in compliance with the applicable hazardous waste management requirements.	R315-5-3.34 262.34(a)(4) R315-7-9.7(a)(1) 265.16(a)(1)	het every one has been trained.
Is the program directed by a person trained in hazardous waste management procedures?	R315-7-9.7(a)(2) 265.16(a)(2)	6
Does the training teach facility personnel hazardous waste management and contingency plan implementation procedures?	R315-7-9.7(a)(2) 265.16(a)(2)	
Does the training program include, at a minimum, the following, where applicable:	R315-7-9.7(a)(3) 265.16(a)(3)	
1. Procedures for using, inspecting, repairing, and replacing facility emergency equipment;	R315-7-9.7(a)(3)(i) 265.16(a)(3)(i)	
2. Key parameters for automatic waste cut-off systems;	R315-7-9.7(a)(3)(ii) 265.16(a)(3)(ii)	
3. Communications or alarm systems;	R315-7-9.7(a)(3)(iii) 265.16(a)(3)(iii)	
4. Response to fires or explosions;	R315-7-9.7(a)(3)(iv) 265.16(a)(3)(iv)	
5. Response to groundwater contamination incidents;	R315-7-9.7(a)(3)(v) 265.16(a)(3)(v)	
6. Shutdown of operations; and	R315-7-9.7(a)(3)(vi) 265.16(a)(3)(vi)	
7. Evacuation of personnel procedures.		
Have facility personnel successfully completed the personnel training program within six months of the date of their employment or assignment to the facility?	R315-7-9.7(b) 265.16(b)	
Do the facility personnel receive an annual review of their initial training?	R315-7-9.7(c) 265.16(c)	

Site:	EPA #:	Date:

Hazardous Waste Inspection Personnel Training Checklist

INSPECTION ITEM	CITATION	COMMENTS
The owner/operator of the facility must maintain the following documents at the facility:	R315-7-9.7(d) 265.16 (d)	
1. The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job;	R315-7-9.7(d)(1) 265.16 (d)(1)	
2. A written job description for each position listed under #1;	R315-7-9.7(d)(2) 265.16 (d)(2)	
3. A written description of the type and amount of both introductory and continuing training that will be given to the employees listed in #1, and;	R315-7-9.7(d)(3) 265.16 (d)(3)	
4. Records that document that employees have the training or job experience required by paragraphs 265.16 (a), (b), and (c).	R315-7-9.7(d)(3) 265.16 (d)(3)	
Are training records maintained at the facility for current employees and for at least three years for employees that have left the company?	R315-7-9.7(e) 265.16(e)	



GARY R. HERBERT

Governor

SPENCER J. COX Lieutenant Governor

Department of Environmental Quality

Alan Matheson
Executive Director

DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL Scott T. Anderson Director

November 3, 2015

Don Higley, Store Manager Rite Aid Store # 06146 851 24th Street Ogden, UT 84401

RE: Compliance Evaluation Inspection

UTR000011430

Dear Mr. Higley:

On October 26, 2015, a representative from the Division of Waste Management and Radiation Control conducted a compliance evaluation inspection at your facility to determine compliance with the Utah Solid and Hazardous Waste Rules.

In accordance with R315-5-3.34 of the Utah Administrative Code, large quantity generators of hazardous waste are required to distribute to the local police and fire departments, hospitals and any other emergency response teams, updated copies of Rite Aid's Contingency Plan and Emergency Procedures (CPEP). During the inspection, you were unable to confirm that this had been performed. You also indicated that it was possible that Rite Aid's corporate office may have sent them out.

In accordance with R315-7-9.7(a)(2) of the Utah Administrative Code, large quantity generators of hazardous waste are required to provide training to appropriate personal in regards to the implementation procedures of the CPEP. During the inspection, there was no documentation indicating that training of the CPEP had been provided. Also, the names and phone numbers were not included in the CPEP for the Rite Aid store emergency coordinators and for and local emergency responders.

Please provide documentation by November 30, 2015 that the notifications and required training have been completed.

(Over)

If you have any questions, please call Alex Pashley at (801) 536-0231.

Sincerely,

Scott T. Anderson, Director

Division of Waste Management and Radiation Control

STA/AP/kl

c: Brian Bennion, Health Officer, Weber-Morgan Health Department Louis Cooper, LEHS, MPA, Environmental Health Director, Weber-Morgan Health Department



With us, it's personal.

Div of Waste Managemen and Radiation Control

DEC 1 4 2015 DSHW-2015-012627 MAILING ADDRESS P.O. Box 3165 Harrisburg, PA 17105

GENERAL OFFICE 30 Hunter Lane Camp Hill, PA 17011

717.761.2633

November 27, 2015

Department of Environmental Quality Division of Waste Management and Radiation Control P.O. Box 144880 Salt Lake City, UT 84114-4880

ATTN: Scott T. Anderson, Director

Sent via Certified Mail and Facsimile to: 801-536-0222

RE: Rite Aid Store 6146 851 24th Street Ogden, UT 84401

Dear Mr. Anderson:

In response to the Inspection report dated October 26, 2015, for Store 6146 in Ogden, please see the outline below indicating actions taken and documents provided:

- Contingency plans have been sent certified to local emergency responders (Exhibit A); and
- Associate training records for 2015 (Exhibit B).

Please do not hesitate to contact me should you require additional information.

Kind Regards, Rite Aid Corporation

Deanna Bomgardner

Manager, Projects and Compliance

Deanus Dry L

(many many many many many many many many		Exhibit H
SENDER COMPLETE THIS SECTIONS	COMPLETE THE SECTION ON DELIVERY 100 100	- /2.0 2.1
Complete items 1, 2, and 3. Also complete	A. Signature	
item 4 if Restricted Delivery Is desired.	X Agent	
Print your name and address on the reverse so that we can return the card to you.	L. Addressee	
Attach this card to the back of the mallpiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Delivery	
Article Addressed to:	D. Is delivery address different from item 1? Yes	
1. Article Addressed to:		
mergency response coordination]	
imergency Response Coordinator Ogden Fre Department		Not delivered, re-seut
2186 Lincoln Avenue	3. Service Type	
	Certified Mail* Priority Mail Express**	
ogden, ut 84401	Registered Return Receipt for Merchandise	
090001, 011 09901	☐ Insured Mail ☐ Collect on Delivery	
91 7199 9991 7035 5784	8827 glivery? (Extra Fee)	
Transier nom service label)		
Po r 2011 (Number of the second	
Donnestic Re	eturn Receipt	
SENDER: COMPLETE THIS SECTION!	COMPLETE THIS SECTION ON DELIVERYS	
Complete items 1, 2, and 3. Also complete	A. Signature	
item 4 if Restricted Delivery is desired.	☐ Agent	
Print your name and address on the reverse so that we can return the card to you.	LI Addresses	
Attach this card to the back of the mailpiece,	B. Received by (Printed Name) C. Date of Delivery	
or on the front if space permits.	D. Is delivery address different from Item 1? Yes	
1. Article Addressed to:	If YES, enter delivery address below: No	
Emergency Response Coordinator		\sim 1. 1
1. Article Addressed to: Emergency Response Coordinator McKay-Dee Hospital 4403 Harrison Blvd	1	Delivered.
Mc Kay-Dee Hospilal	;	
ULID2 Harrison Blvd	3. Service Type	
	☐ Certified Mail® ☐ Priority Mail Express™	
0gden, UT 8440	☐ Registered ☐ Return Receipt for Merchandise	
J .	☐ Insured Mail ☐ Collect on Delivery 4. Restricted Delivery? (Extra Fee) ☐ Yes	
D. A. V. C.	4. Nestikuad Dalivaryr (Extra ree) Li 1985	
2. Article 71 7199 9991 7035 5		
A A A A	784 8841	
TO TOTAL DOTAL DOTAL	turi Hodopt —	
SENDER COMPLETE THIS SECTION (1)	COMPLETE THIS SECTION ON DELIVERY!	
Complete items 1, 2, and 3. Also complete	A. Signature	
item 4 if Restricted Delivery is desired. Print your name and address on the reverse	X	
so that we can return the card to you.	B. Received by (Printed Name) C. Date of Delivery	
Attach this card to the back of the mailpiece, or on the front if space permits.		
	D. Is delivery address different from item 17 Yes	
1. Article Addressed to:	If YES, enter delivery address below: No	
emergency response constitution		Not delivered, re-sent
1. Article Addressed to: Emergerky Response Coordinator Ogden Police Department 2186 Uncoln Avenue Ogden, UT 84401		1401 00-00-00
July Avenue		
2186 UNCOIN 110	3. Servico Type	
Order LAT 84401	☐ Registered ☐ Return Receipt for Merchandise	
egicer, on	☐ Insured Mail ☐ Collect on Delivery	•
	• • • • • • • • • • • • • • • • • • • •	
2 91 7199 9991 7035 5784	8834	



With us, it's personal.

November 10, 2015

MAILING ADDRESS

P.O. Box 3165 Harrisburg, PA 17105

GENERAL OFFICE

30 Hunter Lane Camp Hill, PA 17011

717.761.2633

Emergency Response Coordinator McKay – Dee Hospital 4403 Harrison Blvd Ogden, UT 84401

RE:

Rite Aid Store #6146 851 24th Street Ogden, UT 84401

SUBJECT: Emergency Contingency Plan

As a "large quantity generator" of hazardous waste, we are required to provide a copy of our Emergency Contingency Plan to local emergency response teams to help ensure proper response in the event of an emergency.

This information is to be used by your department to better plan for an emergency response at this facility.

While we only generate small amounts of hazardous waste, under applicable environmental regulations, we have been classified as a Large Quantity Generator (LQG) of hazardous waste because we sometimes generate more than 2.2 pounds of acutely hazardous waste during a calendar month. These materials consist of expired, damaged and returned smoking cessation products (nicotine gums, patches, etc.) along with their associated packaging.

If you have questions or comments regarding this letter or the Emergency Contingency Plan, please call our Store Manager at (801) 393-6044 or contact our Corporate Environmental Health & Safety Department at (717) 975-8643.

Sincerely,

David W. Crozier

Manager, Environmental Health and Safety

Encl. Emergency Contingency Plan



Date: November 16, 2015

6146 - Hospital

Kyle Alexander:

The following is in response to your November 16, 2015 request for delivery information on your Certified Mail™ item number 9171999991703557848841. The delivery record shows that this item was delivered on November 16, 2015 at 10:20 am in OGDEN, UT 84403. The scanned image of the recipient information is provided below.

Signature of Recipient:

Address of Recipient:

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely, United States Postal Service



November 10, 2015

MAILING ADDRESS P.O. Box 3165

Harrisburg, PA 17105

GENERAL OFFICE

30 Hunter Lane Camp Hill, PA 17011

717.761.2633

Emergency Response Coordinator Ogden Police Department 2186 Lincoln Avenue Ogden, UT 84401

RE:

Rite Aid Store #6146

851 24th Street Ogden, UT 84401

SUBJECT: Emergency Contingency Plan

As a "large quantity generator" of hazardous waste, we are required to provide a copy of our Emergency Contingency Plan to local emergency response teams to help ensure proper response in the event of an emergency.

This information is to be used by your department to better plan for an emergency response at this facility.

While we only generate small amounts of hazardous waste, under applicable environmental regulations, we have been classified as a Large Quantity Generator (LQG) of hazardous waste because we sometimes generate more than 2.2 pounds of acutely hazardous waste during a calendar month. These materials consist of expired, damaged and returned smoking cessation products (nicotine gums, patches, etc.) along with their associated packaging.

If you have questions or comments regarding this letter or the Emergency Contingency Plan, please call our Store Manager at (801) 393-6044 or contact our Corporate Environmental Health & Safety Department at (717) 975-8643.

Sincerely,

David W. Crozier

allleg

Manager, Environmental Health and Safety

Encl. Emergency Contingency Plan



November 23, 2015

MAILING ADDRESS

P.O. Box 3165 Harrisburg, PA 17105

GENERAL OFFICE

30 Hunter Lane Camp Hill, PA 17011

717.761.2633

Emergency Response Coordinator Ogden Police Department 2186 Lincoln Avenue Ogden, UT 84401

RE: Rite Aid Store # 06146

851 24th Street Ogden, UT 84401

SUBJECT: Emergency Contingency Plan

As a "large quantity generator" of hazardous waste, we are required to provide a copy of our Emergency Contingency Plan to local emergency response teams to help ensure proper response in the event of an emergency.

This information is to be used by your department to better plan for an emergency response at this facility.

While we only generate small amounts of hazardous waste, under applicable environmental regulations, we have been classified as a Large Quantity Generator (LQG) of hazardous waste because we sometimes generate more than 2.2 pounds of acutely hazardous waste during a calendar month. These materials consist of expired, damaged and returned smoking cessation products (nicotine gums, patches, etc.) along with their associated packaging.

If you have questions or comments regarding this letter or the Emergency Contingency Plan, please call our Store Manager at (801) 393-6044 or contact our Corporate Environmental Health & Safety Department at (717) 975-8643.

Sincerely,

Olleg David W. Crozier

Manager, Environmental Health and Safety

Encl. Emergency Contingency Plan



UPS Shipping Form (Required shipping information)

	Sender's Contac	<u>ct Information:</u>	Date: 11/20/2015
Name: Kyle Alexander	Extension: 244	1 Please return the t	racking receipt: 🔳-Yes 🔲-No
Required informa Mailing to a Store: (only the Store Nu Store Number: Mailing to a Regional Office or W	amber and Attention Name Attention	Name:	
Zip Code:		Name:	
Mailing to all other locations: Rec Is delivery address Residential Attention: Emergency Response Company: Ogden Police Departm Address 1: 2186 Lincoln Avenue Address 2: City: Ogden Zip: 84401 Phone: (*Required to proce	ipient's Information -Yes -No Coordinator ent tate: UT	882A5A NOV 23, 20 SVC 2DA POV 23, 20 TRACKING# 12882A5A024886 REF 1:09569 REF 2: HANDLING CHARGE 0.DD SINGLE - PIECE NR RATE CHR DV 0.00 COI DC 0.00 COI AH 0.00 PR TOT NR CHG 5.82	1GS: SVC 5.82 USD
****Req	uired Informa	tion for <u>ALL</u> packa	iges****
Cost		Total Packages: 1	
	3 business days) days) - *Mgr Signature F Next day by 3:00 PM) - *	Required: Qal L Coo *VP Signature Required: ignature Required:	
Special Handling: (if applica Residential Delivery Signature:	ble)	Saturday Delivery	Indirect Signature
Payment information: (if app	_	-Recipient	Third Party



Proof of Delivery

Lyde A retige

Dear Customer,

This notice serves as proof of delivery for the shipment listed below

Tracking Number:

1Z882A5A0246804821

Service:

UPS 2nd Day Air®

Weight:

20 lb 11/23/2015

Shipped/Billed On: Delivered On:

11/25/2015 1 14 P M

Delivered To: Staned By: OGDEN, UT, US NELSON

Signed By: Left At:

NELSON Front Desk

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS. 11/27/2015 7 59 A M ET

Print This Fage

Close Window



With us, it's personal.

November 10, 2015

MAILING ADDRESS

P.O. Box 3165 Harrisburg, PA 17105

GENERAL OFFICE

30 Hunter Lane Camp Hill, PA 17011

717.761.2633

Emergency Response Coordinator Ogden Fire Department 2186 Lincoln Avenue Ogden, UT 84401

RE:

Rite Aid Store #6146

851 24th Street Ogden, UT 84401

SUBJECT: Emergency Contingency Plan

As a "large quantity generator" of hazardous waste, we are required to provide a copy of our Emergency Contingency Plan to local emergency response teams to help ensure proper response in the event of an emergency.

This information is to be used by your department to better plan for an emergency response at this facility.

While we only generate small amounts of hazardous waste, under applicable environmental regulations, we have been classified as a Large Quantity Generator (LOG) of hazardous waste because we sometimes generate more than 2.2 pounds of acutely hazardous waste during a calendar month. These materials consist of expired, damaged and returned smoking cessation products (nicotine gums, patches, etc.) along with their associated packaging.

If you have questions or comments regarding this letter or the Emergency Contingency Plan, please call our Store Manager at (801) 393-6044 or contact our Corporate Environmental Health & Safety Department at (717) 975-8643.

Sincerely,

David W. Crozier

Del alia

Manager, Environmental Health and Safety

Encl. Emergency Contingency Plan



November 23, 2015

MAILING ADDRESS

P.O. Box 3165 Harrisburg, PA 17105

GENERAL OFFICE 30 Hunter Lane Camp Hill, PA 17011

717.761.2633

Emergency Response Coordinator Ogden Fire Department 2186 Lincoln Avenue Ogden, UT 84401

RF.

Rite Aid Store # 06146

851 24th Street Ogden, UT 84401

SUBJECT: Emergency Contingency Plan

As a "large quantity generator" of hazardous waste, we are required to provide a copy of our Emergency Contingency Plan to local emergency response teams to help ensure proper response in the event of an emergency.

This information is to be used by your department to better plan for an emergency response at this facility.

While we only generate small amounts of hazardous waste, under applicable environmental regulations, we have been classified as a Large Quantity Generator (LQG) of hazardous waste because we sometimes generate more than 2.2 pounds of acutely hazardous waste during a calendar month. These materials consist of expired, damaged and returned smoking cessation products (nicotine gums, patches, etc.) along with their associated packaging.

If you have questions or comments regarding this letter or the Emergency Contingency Plan, please call our Store Manager at (801) 393-6044 or contact our Corporate Environmental Health & Safety Department at (717) 975-8643.

Sincerely,

David W. Crozier

Del aleo

Manager, Environmental Health and Safety

Encl. Emergency Contingency Plan



UPS Shipping Form (Required shipping information)

Date: 11/23/2015 Sender's Contact Information: Name: Kyle Alexander Extension: 2441 Please return the tracking receipt: -Yes -No Required information for various locations: (choose one of the following 3 mailing options) Mailing to a Store: (only the Store Number and Attention Name is required) Store Number: __ Mailing to a Regional Office or Warehouse: (only the Zip Code and Attention Name is required) Zip Code: ____ Attention Name: ___ Mailing to all other locations: Recipient's Information NOV 23, 2015 ACT WT 0.2 LBS BL WT 1.0 LBS Is delivery address Residential -Yes -No 882A6A SVC 2DA TRACKING# 12882A6A0248228030 Attention: Emergency Response Coordinator REF 1:09689 Ogden Fire Department Company: REF 2: Address 1: 2186 Lincoln Avenue HANDLING CHARGE 0.00 SVC 5.82 USD SINGLE - PIECE NR RATE CHAGS: RS 0.00 COD 0.00 DGD 0.00 SD 0.00 Address 2: 0.00 SP DC 0.00 0.00 PR City: Ogden NR+HANDLING AH 0.00 TOT NA CHG 6.82 Zip: 84401 Phone: (*Required to process overseas and Canada) *****Required Information for ALL packages***** Cost Center: 9569 Total Packages: 1 Express Package Service: Ground (5 business days) UPS 3 Day Select (1-3 business days) X 2nd Day Air (2 business days) - *Mgr Signature Required: Next Day Air Saver (Next day by 3:00 PM) - **VP Signature Required: ___ Next Day Air (Next day by 10 30 AM) - **VP Signature Required: Saturday Delivery Special Handling: (if applicable) -No Signature -Indirect Signature Residential Delivery Signature: -Direct Signature Payment information: (if applicable) __-Sender (billed to Rite Aid Acct #) -Recipient Insured amount (if applicable): \$_____ UPS Account #:

Before 4:00 PM - To be processed by the mailroom - Must have completed form & package in the Mailroom by 4:00 PM After 4:00 PM - Must have completed UPS Shipping Label on package in the Lobby ready to ship by 7:00 PM



Proof of Delivery

Class Fordow

Dear Customer,

This notice serves as proof of delivery for the shipment listed below

Tracking Number:

1Z882A5A0248228030

Service:

UPS 2nd Day Air®

Weight:

11/23/2015

Shipped/Billed On: Delivered On:

11/25/2015 1 14 P M OGDEN, UT US

Delivered To: Signed By: Left At:

NELSON Front Desk

Thank you for giving us this opportunity to serve you

Sincerely,

UPS

Tracking results provided by UPS 11/26/2015 7 21 P M ET

Print This Page

Cicse Nindow

Exhibit (

2015 Training Records - Store 6146

First Name	Last Name	Store	Department	Job Code	Course Name	Status	Date of Completion
Evelyn	Blackwell	6146	Front End	Cashier	Retail HazMat	Completed	10/16/15
Kathryn	Doxey	6146	Front End	Cashier	Retail HazMat	Completed	10/21/15
Rick	Haase	6146	Front End	Shift Supervisor	Retail HazMat	Completed	11/03/15
Adam	Henrie	6146	Pharmacy	Pharmacy Tech	Retail HazMat	Completed	10/17/15
Donald	Higley	6146	Front End	Store Manager	Retail HazMat	Completed	10/10/15
Stephanie	Ligori	6146	Front End	Shift Supervisor	Retail HazMat	Completed	10/22/15
Frederick	Nicholls	6146	Front End	Shift Supervisor	Retail HazMat	Completed	10/17/15
Julene	Pentecost	6146	Pharmacy	Pharmacy Tech	Retail HazMat	Completed	10/19/15
Dee	Pierce	6146	Pharmacy	Pharmacist	Retail HazMat	Completed	10/11/15
Robert	Pump	6146	Pharmacy	Pharmacy Manager	Retail HazMat	Completed	10/18/15
James	Ricketts	6146	Front End	Store Helper	Retail HazMat	Completed	10/16/15
Sharlena	Schacht	6146	Pharmacy	Pharmacy Tech	Retail HazMat	Completed	10/16/15
Geraldine	Whitlock	6146	Front End	Cashier	Retail HazMat	Completed	10/13/15
Danial	Williams	6146	Front End	Shift Supervisor	Retail HazMat	Completed	10/30/15



GARY R. HERBERT Governor

SPENCER J. COX Lieutenant Governor

Department of Environmental Quality

Alan Matheson Executive Director

DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL Scott T. Anderson Director

January 20, 2016

RITE AID STORES SEE ATTACHED FACILITY LIST

RE: 2015 Hazardous Waste Biennial Report

To whom it may concern:

According to our records, your facility was listed as a Large Quantity Generator (LQG) of hazardous waste, a hazardous waste Treatment, Storage, and Disposal (TSD) facility, or both, for some or all of 2015. All LQGs and TSDs are required to submit a biennial report each even numbered year for their generator or facility activities during the previous year. Your biennial report, covering calendar year 2015, must be submitted to this office by March 1, 2016.

For electronic submittals, the Division is once again using the BRState software from Florida which can be found at: "http://www.dep.state.fl.us/waste/categories/hazardous/pages/brs_data.htm."

Forms and instructions can be found at:

"http://www.epa.gov/epawaste/inforesources/data/biennialreport/index.htm"

All applicable information on the Site Identification (SI) Form, GM Form and WR Form must be completed. The OI Form is not required by the State of Utah. Please note that, if the report is compiled using the Florida software, the signed SI Form must be submitted as a hard copy along with a CD containing all other data.

If your facility was not a LQG or TSD during any part of 2015 and you wish to update your generator status, please submit an updated SI Form.

If you have any questions, please call Carlee Christoffersen at (801) 536-0233.

Sincerely,

Scott T. Anderson, Director

Division of Waste Management and Radiation Control

STA/CC/kl

EPA ID Number	Store #	Address	City
UTR000011759	RITE AID #6123	535 SOUTH MAIN STREET	BOUNTIFUL
UTR000011767	RITE AID #6125	860 NORTH FAIRFIELD ROAD	LAYTON
UTR000011775	RITE AID #6126	774 SOUTH STATE STREET	OREM
UTR000011791	RITE AID #6128	5673 SOUTH 1900 WEST	ROY
UTR000011809	RITE AID #6129	8645 SOUTH HIGHLAND DRIVE	SANDY
UTR000011817	RITE AID #6131	72 SOUTH MAIN STREET	SALT LAKE CITY
UTR000011825	RITE AID #6132	220 SOUTH 700 EAST	SALT LAKE CITY
UTR000011833	RITE AID #6133	635 EAST 3300 SOUTH	SALT LAKE CITY
UTR000011841	RITE AID #6135	2266 EAST 3300 SOUTH	SALT LAKE CITY
UTR000011858	RITE AID #6136	2332 EAST 2100 SOUTH	SALT LAKE CITY
UTR000011866	RITE AID #6137	150 NORTH 900 WEST	SALT LAKE CITY
UTR000011957	RITE AID #6138	5540 SOUTH 900 EAST	SALT LAKE CITY
UTR000011874	RITE AID #6139	4714 HOLLADAY BLVD	HOLLADAY
UTR000011882	RITE AID #6140	1837 WEST 4700 SOUTH	TAYLORSVILLE
UTR000011890	RITE AID #6143	2378 EAST 7000 SOUTH	SALT LAKE CITY
UTR000011430	RITE AID #6146	851 24TH STREET	OGDEN
UTR000011908	RITE AID #6147	142 NORTH HARRISVILLE ROAD	OGDEN
UTR000011916	RITE AID #6148	1324 NORTH STATE STREET	PROVO
UTR000011924	RITE AID #6149	615 EAST SAINT GEORGE BLVD	ST. GEORGE
UTR000011932	RITE AID #6304	1550 NORTH STATE STREET	OREM
UTR000011940	RITE AID #6311	819 NORTH MAIN STREET	PAYSON



OMB# 2050-0024; Expires 01/31/2017

FEB - 5 2016

FO! The	MPLETED RM TO: Appropriate te or Regional	United States Environmental Protection Agency RCRA SUBTITLE C SITE IDENTIFICATION FORM DSHW-2016-008267	
1.	Reason for Submittal	Reason for Submittal: To provide an Initial Notification (first time submitting site identification information / to obtain for this location)	ain an EPA ID number
В	MARK ALL OX(ES) THAT APPLY	 □ To provide a Subsequent Notification (to update site identification information for this locat □ As a component of a First RCRA Hazardous Waste Part A Permit Application □ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amended As a component of the Hazardous Waste Report (If marked, see sub-bullet below) 	
		Site was a TSD facility and/or generator of >1,000 kg of hazardous waste, >1 kg of ac >100 kg of acute hazardous waste spill cleanup in one or more months of the report y LQG regulations)	
2.	Site EPA ID Number	EPA ID Number U T R 0 0 0 0 0 1 1 1 4 3 0	
3.	Site Name	Name: Rite Aid # 6146	
4.		Street Address: 851 24th ST	
	Information	City, Town, or Village: Ogden	County: Weber
		State: UT Country: USA	Zip Code: 84401
5.	Site Land Type	Private County District Federal Tribal Municipal S	State Other
6.	NAICS Code(s) for the Site	A. 4 4 6 1 1 0 c.	
	(at least 5-digit codes)	B. D. D.	
7.	Site Mailing	Street or P.O. Box: 30 Hunter Lane	
	Address	City, Town, or Village: Camp Hill	
		State: PA Country: USA	Zip Code: 17011
8.	Site Contact Person	First Name: David MI: W Last: Crozier	
	reison	Title: Manager, Environmental Health & Safety	
		Street or P.O. Box: 30 Hunter Lane	
		City, Town or Village: Camp Hill	47044
		State: PA Country: USA	Zip Code: 17011
		Email: EHS@riteaid.com	Fax: (717) 972-3989
9.	Legal Owner	Phone: 717-975-8643 Ext.: A. Name of Site's Legal Owner: Bailey Ogden Borris, LLC	Date Became Owner: 10/10/1965
	and Operator of the Site	Owner Private County District Federal Tribal Municipal	State Other
		Street or P.O. Box: P.O. Box 7096	
		City, Town, or Village: Santa Monica	Phone: (310)260-6488
		State: CA Country: USA	Zip Code: 90406
		B. Name of Site's Operator: Thrifty Payless, Inc.	Date Became Operator: 05/07/1997
		Operator Type: ☐ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal	State Other

10. Type of Regulated Waste Activity (at your site) Mark "Yes" or "No" for all current activities (as of the date submitting the t	form); complete any additional boxes as instructed.
A. Hazardous Waste Activities; Complete all parts 1-10.	
1. Generator of Hazardous Waste If "Yes," mark only one of the following – a, b, or c.	Y N 5. Transporter of Hazardous Waste If "Yes," mark all that apply.
accumulates at any time, more than 100 kg/mo (220 lbs/mo) of acute hazardous spill cleanup	a. Transporter b. Transfer Facility (at your site) Y N ✓ 6. Treater, Storer, or Disposer of Hazardous Waste Note: A hazardous waste Part B permit is required for these activities. Y N ✓ 7. Recycler of Hazardous Waste
b. SQG: non-acute hazardous waste. ✓ c. CESQG: Less than 100 kg/mo (220 lbs/mo) of non-acute hazardous waste. If "Yes" above, indicate other generator activities in 2-10. Y N ✓ 2. Short-Term Generator (generate from a short-term or one-time event and not from on-going processes). If "Yes," provide an explanation in the Comments section.	Y N S 8. Exempt Boiler and/or Industrial Furnace If "Yes," mark all that apply. a. Small Quantity On-site Burner Exemption b. Smelting, Melting, and Refining Furnace Exemption
Y N 3. United States Importer of Hazardous Waste	Y N / 9. Underground Injection Control
	Y N ✓ 10. Receives Hazardous Waste from Off-site
1	C. Used Oil Activities; Complete all parts 1-4. Y N 1. Used Oil Transporter If "Yes," mark all that apply. a. Transporter b. Transfer Facility (at your site)
a. Batteries b. Pesticides c. Mercury containing equipment d. Lamps e. Other (specify)	Y N 2. Used Oil Processor and/or Re-refiner If "Yes," mark all that apply. a. Processor b. Re-refiner Y N 3. Off-Specification Used Oil Burner Y N 4. Used Oil Fuel Marketer If "Yes," mark all that apply. a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner b. Marketer Who First Claims the Used Oil Meets the Specifications

	D. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K						
- ♦ Y	❖ You can ONLY Opt into Subpart K if:						
•	 you are at least one of the following: a college or university; a teaching hospital that is owned by or has a formal affiliation agreement with a college or university; or a non-profit research institute that is owned by or has a formal affiliation agreement with a college or university; AND 						
•	you have checked with y	our State to determine	e if 40 CFR Part 262	Subpart K is effective	e in your state		
Y N	1. Opting into or currently						
	See the item-by-item a. College or University		initions of types of	eligible academic e	ntities. Mark ali tha	t appiy:	
	b. Teaching Hospita	-	or has a formal writte	en affiliation agreen	nent with a college	or university	
	C. Non-profit Institu	•		_	_	-	
		•			•	•	
Y N	2. Withdrawing from 40	CFR Part 262 Subpar	t K for the manageme	ent of hazardous was	tes in laboratories		
11. Descrip	tion of Hazardous Waste)					
your sit	Codes for Federally Regule. List them in the order the are needed.						
D001							
D002							
D007							
D010							
D011			'				
P001							
P075							
hazardo	Codes for State-Regulate ous wastes handled at you are needed.						
						,	

12.	Notificat	ion of Hazardous Secondary Mater	rial (HSM) Activity	
٧[□N✓	Are you notifying under 40 CFR 260 secondary material under 40 CFR 26	.42 that you will begin managing, are managing 61.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)	, or will stop managing hazardous ?
		If "Yes," you must fill out the Addend Material.	lum to the Site Identification Form: Notification f	or Managing Hazardous Secondary
13.	Comme			
Со	mponent	of reporting.		
			·	
		and the second s		
14.	accordar on my in informati penalties	nce with a system designed to assure quiry of the person or persons who m on submitted is, to the best of my kno for submitting false information, inclu	at this document and all attachments were prep that qualified personnel properly gather and ev anage the system, or those persons directly res whedge and belief, true, accurate, and complete uding the possibility of fines and imprisonment for all owner(s) and operator(s) must sign (see 40 C	raluate the information submitted. Based sponsible for gathering the information, the e. I am aware that there are significant or knowing violations. For the RCRA
		legal owner, operator, or an epresentative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
	2.	lelig	David W. Crozier	2/5/2016
	- Juniore			
			Manager, EH&S	

DEC 19 2017

OMB# 2050-0024; Expires 01/31/2017

OK-CC

FO The Sta	ND MPLETED RM TO: e Appropriate ate or Regional ice.	United States RCRA SUBTIT DSH	LE C SITE	IDEN		FORM		Parties of the state of the sta
1.	Reason for Submittal	Reason for Submittal: To provide an Initial Notification for this location) To provide a Subsequent Noti	on (first time su	ubmitting	site identification	n information / to ob		A ID number
E	BOX(ES) THAT APPLY	K(ES) THAT D As a component of a First RCRA Hazardous Waste Part A Permit Application						
		☐ Site was a TSD facility ar >100 kg of acute hazardo LQG regulations)						
2.	Site EPA ID Number	EPA ID Number U T R 0	0 0 0	1 1 4	3 0			
3.	Site Name	Name: DBA Rite Aid #06146	W1=11VWI					
4.		Street Address: 851 24th Street						
	Information	City, Town, or Village: Ogden	 		······································		County	
		State: UT	Country: U	SA		Luc west to the second	Zip Co	de: 84401
5.	Site Land Type	Private County Dist	rict Fed	deral	Tribal	Municipal	State	Other
6.	NAICS Code(s) for the Site	A. <u>4 4 6 1</u>	1 0		C.			
	(at least 5-digit codes)	В			D.			
7.	Site Mailing	Street or P.O. Box: 300 Wilmot Road	d MS #3301					
	Address	City, Town, or Village: Deerfield						
		State: IL	Country: US		·····		Zip Co	de: 60015
8.	Site Contact	First Name: Kimberly	MI:	Last: Da	ascoli			
	Person	Title: Director, Retail Compliance						
		Street or P.O. Box: 200 Wilmot Road	d					
		City, Town or Village: Deerfield	1					
		State: IL	Country: US	5A			Zip Co	de: 60015
		Email: kim.dascoli@walgreens.com)	Т				
		Phone: 847-315-2812		Ext.:			Fax: (7	17) 972-3989
9.	Legal Owner and Operator	A. Name of Site's Legal Owner: Ogo	den City Rede	evelopm	ent Agency			1-1-15
	of the Site	Owner Private County	District	Fede	eral Tribal	Municipal	☐ Stat	e Other
		Street or P.O. Box: 2549 Washingto	n Blvd., Suite	e 420			T	
	ļ	City, Town, or Village: Ogden					Phone: 8	301-629-8410
		State: UT	Country: US	SA			Zip Code	
	1	B. Name of Site's Operator: Walgree	en Co.				Date Bed Operator	:ame :: 12/19/2017
		Operator Type: Private County	District	Fede	ral Tribal	Municipal	State	e Other

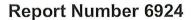
 Type of Regulated Waste Activity (at your site) Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed. 					
A. Hazardous Waste Activities; Complete all parts 1-10.					
Y N 1. Generator of Hazardous Waste If "Yes," mark only one of the following – a, b, or c.	Y N / 5. Transporter of Hazardous Waste If "Yes," mark all that apply.				
Generates, in any calendar month, 1,000 kg/mo (2,200 lbs/mo.) or more of hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs/mo) of acute hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 100 kg/mo (220 lbs/mo) of acute hazardous spill cleanup material.	 a. Transporter b. Transfer Facility (at your site) Y N ✓ 6. Treater, Storer, or Disposer of Hazardous Waste Note: A hazardous waste Part B permit is required for these activities. Y N ✓ 7. Recycler of Hazardous Waste 				
b. SQG non-acute hazardous waste. CESQG Less than 100 kg/mo (220 – 2,200 lbs/mo) of non-acute	Y N S. Exempt Boiler and/or Industrial Furnace				
hazardous waste If "Yes" above, indicate other generator activities in 2-10.	If "Yes," mark all that apply. a. Small Quantity On-site Burner Exemption b. Smelting, Melting, and Refining				
Y N O 2. Short-Term Generator (generate from a short-term or one-time event and not from on-going processes). If "Yes," provide an explanation in the Comments section	Furnace Exemption				
Y N 🗸 3. United States Importer of Hazardous Waste	Y N 🗸 9. Underground Injection Control				
Y N . Mixed Waste (hazardous and radioactive) Generator	Y N 10. Receives Hazardous Waste from Off-site				
B. Universal Waste Activities; Complete all parts 1-2.	C. Used Oil Activities; Complete all parts 1-4.				
Y N 1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site. If "Yes," mark all that apply.	Y N N 1. Used Oil Transporter If "Yes," mark all that apply. a. Transporter b Transfer Facility (at your site)				
a Batteries b. Pesticides c Mercury containing equipment d Lamps e Other (specify)	Y N ✓ 2. Used Oil Processor and/or Re-refiner If "Yes," mark all that apply. □ a Processor □ b Re-refiner Y N ✓ 3. Off-Specification Used Oil Burner Y N ✓ 4. Used Oil Fuel Marketer If "Yes," mark all that apply. □ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner □ b. Marketer Who First Claims the Used Oil Meets the Specifications				

D.	Eligible A wastes pu	cademic Entities with I ursuant to 40 CFR Part	Laboratories—Notifi 262 Subpart K	cation for opting in	to or withdrawing for	rom managing labor	ratory hazardous	
	You can ONLY Opt into Subpart K if							
	• you are at least one of the following. a college or university; a teaching hospital that is owned by or has a formal affiliation agreement with a college or university; or a non-profit research institute that is owned by or has a formal affiliation agreement with a college or university, AND							
	• y	ou have checked with yo	our State to determine	e if 40 CFR Part 262	Subpart K is effective	e in your state		
Y[N	. Opting into or currently	operating under 40	CFR Part 262 Subpa	rt K for the managen	nent of hazardous wa	stes in laboratories	
	Г	See the item-by-item		initions of types of	eligible academic e	ntities. Mark all tha	it apply:	
		☑a. College or Univer ☐b. Teaching Hospita	•	r has a formal write	on offiliation navoor	mont with a collogo	or university	
	<u>_</u>	c. Non-profit Institu						
	_		(oac 10 oaa sy	or mad a royman will	ton annualon agree	mont with a conege	or aniversity	
Υ[N[√] 2	Withdrawing from 40 C	CFR Part 262 Subpar	t K for the manageme	ent of hazardous was	stes in laboratories		
11.	Description	on of Hazardous Waste						
Α.	Waste Co	des for Federally Regu List them in the order th	lated Hazardous Wa	astes. Please list the ne regulations (e g , l	waste codes of the D001, D003, F007, U	Federal hazardous w 1112). Use an additio	rastes handled at anal page if more	
	D001							
	D002							
	D007							
	D010							
	P001							
	P075							
В.		des for State-Regulated wastes handled at your e needed						
www.	-							

2. Notification of Hazardous Secondary Material (HSM) Activity									
Y N ✓ Are you notifying under 40 CFR 260 42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261 2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)?									
If "Yes," you must fill out the Adde Material.	ndum to the Site Identification Form. Notification	for Managing Hazardous Secondary							
13. Comments	. Comments								
The following changes are being requested	he following changes are being requested to this location, as the result of an asset								
purchase from Thrifty Payless, Inc. by Walg	reen Co , effective 12/19/2017								
Site name DBA added (#3)									
Site Mailing Address Changed (#7)									
Site Contact Changed (#8)									
Name of Site's Legal Operator Changed (#9	В)	,							
4. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. For the RCRA Hazardous Waste Part A Permit Application, all owner(s) and operator(s) must sign (see 40 CFR 270.10(b) and 270.11).									
Signature of legal owner, operator, or an authorized representative Name and Official Title (type or print) Date Signed (mm/dd/yyyy)									
VIIIIXFORMO	Kimberly Dascoli	12/19/2017							
a my fine									
	Director, Retail Compliance								

APPENDIX H

DERR INCIDENT REPORT





Utah Department of Environmental Quality Division of Environmental Response and Remediation 195 North 1950 West Salt Lake City, Utah 84116

Bus. Hours: 801-536-4100 Report Spills 24/7/365: 801-536-4123

ENVIRONMENTAL IN SUBSTITUTED)	ICIDENT REPORT - ENIV	RONMENTA	L ABATEMENT, INC	.(?) (NULL RP
Report Taken By:	LHD (Correspondence)			
Date / Time Reported:	5/5/2008 11:30			
REPORTING PARTY DAT	ES AND TIMES			
Reporting Party:	Bill Reyns		Title:	EHS
Company:	Weber-Morgan Health		Phone:	(801) 399-7160
Date & Time Discovered:	5/5/2008 0:0			
RESPONSIBLE PARTY				
Name:	Enivronmental Abatement, Inc.(?)		Phone:	8015899238
Address:				
INCIDENT LOCATION				
Incident Address:	24th and Monroe			
Nearest Town:	OGDEN		County:	WEBER
Highway:	And a second sec		Mile Marker:	
UTM :	(E) (N)		Land Ownership:	
loading dock inside). Ammonia a	on, female patron of Rite-Aid on 24th ar t 1.0 mg/cm3 inside building. Measured are explored. Building not evacuated.			
REPORTED				
	AMMONIA			
	VOCs			
IMPACTED N MEDIA	Media Other	Land Use	Waterway Name Near Water	r Distance NRC Rpt. i
NOTIFICATIONS MADE	Agency	Contact	Date Time	By Active?
ACTIONS TAKEN Date	Agency	Action	Action	n Details

APPENDIX I

WHEELWRIGHT LUMBER LUST FILES







FILE COPY

DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

168 North 1950 West P.O. Box 144840 Salt Lake City, Utah 84114-4840 (801) 536-4100 (801) 536-4414 T.D.D. www.deq.state.ut.us Web

ERRL-0322-98

March 13, 1998

Mr. Hal Wheelwright Wheelwright Lumber Company 2459 Quincy Avenue Ogden, Utah 84401 SCANNED

DERR-1998-00485

RE: Release Site EJDV & EHBM, Wheelwright Lumber Company

Located at 2459 Quincy Avenue, Ogden, Utah

Facility Identification No.1200443

LUST Site Closure

Dear Mr. Wheelwright:

The case file for this facility has been reviewed by your state project manager, who has recommended that no further corrective action be taken at this time. This no further action applies only to the specific LUST release EJDV & EHBM. This recommendation is based upon the information contained in the file supplied by you or your consultant.

The information you have submitted indicates that any detectable petroleum contamination at the site is not a threat to human health or the environment as characterized using state underground storage tank rules. In the future, if other evidence indicates a spread of contamination from the Facility which may cause such a threat, further corrective action may be required.

If you have any questions regarding this matter, please contact your state project manager, Mark Crim at (801) 536-4247.

Sincerely,

Kent P. Gray, Executive Secretary (UST)

Utah Solid and Hazardous Waste Control Board

KPG/MEC/js

cc: J. Brett Lazar, M.D., M.P.H., Director, Weber/Morgan District Health Department Ted Thatcher, TR Tech, Inc.

CLOSE-OUT CHECKLIST

March 18, 1997 (date revised)

This checklist is a guideline for identifying and assessing exposure pathways and receptors of petroleum contamination from LUST sites. This checklist is intended to expedite the LUST case file close-out process by providing supporting documentation that remaining contamination is not expected to adversely impact those receptors. RCLs, MCLs, or Tier I Screening Levels (ASTM, 1994) have been exceeded and site-specific data have subsequently been collected (Tier 2 or 3 Evaluation). The remaining contamination at this site does not appear to present current or future risks to human and environmental health, and site-specific cleanup levels have been set using ASTM, 1994 or other methods.

The spaces provided in this checklist are checked if the condition for the particular exposure criterion applies to supporting and documenting low or no risk. Attach a site map showing analytical results. This recommendation for case file close-out is in accordance with all sections of 40 CFR Subparts E and F, and Utah Administrative Code R3.11-Project Manager (print) Work Cri. Date 2-17-98 Facility ID 12004 Pacility Name and Address withcolor rate Louber Closeout Peer Group Review and Concurrence (date) Section Manager Concurrence (signature, date) Branch Manager Concurrence (signature, date) 1.0 ABATEMENT A. PRODUCT INFORMATION C. SOURCE ABATEMENT B. ENVIRONMENTAL and OTHER IMPACTS PRODUCT AMOUNT IF Leaks RELEASE Source RELEASED KNOWN RATE. _Groundwater Repaired IF KNOWN Vapors Tank Gasoline Piping Free product Diesel Dispenser Surface water Jet Fuel _Homes, businesses, utilities, Pree Product (amount) Waste oil Contaminated soil (amount) other structures. New Oil Pipe permeation Vapors Unknown Wells (municipal, domestic, irrigation, Successful Emergency Measures Taken: stock, other) Vapor evacuation Other: Utility line replacement or flushing (sewer, water, other) Alternative drinking water supplied Residents/workers relocated .
Other, explain; 2.0 SITE CHARACTERIZATION A. ENVIRONMENTAL SENSITIVITY B. EXPOSURE PATHWAYS AND RECEPTORS Specify level of environmental sensitivity and point score (See Table 1 worksheet Buildings, utility lines, wells, and surface water have been evaluated and determined to be not-at-risk exposure pathways or receptors. Risk-Based Cleanup Levels attached): Level I >65 (RBCLs) have been re-calculated and are expected to be protective of the exposure Level II 40-65 pathways and receptors identified below: B/T/E/X/N _Level III <40 B/T/E/X/N . Not applicable Nor Likely RBCLs Observed Other method, describe below: Indoor air inhalation Leaching to GW Ingestion Skin contact B/T/F/X/N B/T/E/X/N Observed Oroundwater: Indoor air inhalation Current Land Use: Ingestion Skin contact

Residential

Industrial

Agricultural

			т н.
	3.0 SUBSURFACE	EINVESTIGATION	
A, EXTENT AND DEGREE OF CONT	'AMINA'TION		B. SAMPLE COLLECTION
Extent and degree of contamination are sufficiently Extent and degree of contamination are projected or	defined, r inferred,	Confirmation samples take	n after source removal or corrective action; GroundwaterVaporsSurface Water
Model Used (results and sunmary attached):: Yado: Attenuation on-siteAttenuation to saf Attenuation to safe levels prior to reaching utilities/	e levels off-site.	Confitmation samplesAsymptotic concentra	
C. REI	MAINING CONTAMINATI	ON (provide if not separately	attached)
Dissolved Phase: Plume Dimensions (L X W): 60 Concentrations at source (TPH/B/T/E/X/N mg/L): 1	TRH / 301 N	Adsorbed Phase: Dimensi Concentrations at source (T	ions: (L X W X Thickness; yd³) PH/B/T/E/X/N mg/kg):
Concentrations at leading edge (TPH/B/T/E/X/N mg/L):	All-Now Dotack. Well-2 Events	Concentrations at leading e	dge (TPH/B/T/E/X/N mg/kg);
	3 yrs apart		
4.0 CLEA Sperces of contamination are removed,	NUP: SUPPORTING I		LOW RISKFurther cleanup does not appear to be
Syd³ contaminated soil remain in place, 10' separates contaminated soil from GW, 210' separates contamination from bidgs/utilities, Buildings or utilities do not overlie	concentrations based on: Recharge is very l	low. ot actually/likely to reach	achievable based on:Technological feasibilityCost-Effectiveness (excessive cost;benefit)
contamination,	Natural attenuation and tran are reducing contaminant co exposure:Adsorption/DesorptionAdvection/Dispersion	oncentrations and risk of Biodegradation Volatilization	Current land use restrictions not likely based on: No receptors are present,Receptors not likely to be exposed to umsafe concentrationsOther:
groundwater is not leaching concenttations that will impact receptors. Weathered product evidence:	Chemical mobility	st toxicity (BTEXN) are	Future land use restrictions not likely based on; Historical land use well-established and not likely to change or become more sensitive. Remaining contamination not likely to
Only TPH remains in place,	Hydrocarbons of highe not present in soil or k Other toxic compounds or known to exist.	st toxicity (BTEXN) are nown to exist. s analyzed are not present	impact fiture bldgs or utilities. Other:
ADDITIONAL COMMENTS: This	ward foreility	had two us	To removed on two
Separate occasions, 1992 è 19 wirs nover detected but growns. 734 pp. (1992), TPH as	185. For each	closure aven	t, soil contamination
with haver detected but good	uater (64) 010 Show 10	July or www. as wight
as . /34 pp (1992), TPH as	high as uoi7	(1992) and a	aprimateur up to 1301 ppur
in the 1995 sampling arent	. Although i	the USTS wer	s remoted saboretend,

Separate occasions, 1992 i 1995. For each closure avent, soil contamination was never detected but ground water (600) did show levels of banzance as high as .734 pp. (1992). TPH ashigh as 40.7 (1992) and usphthelene up to .301 pp. in the 1995 sampling avent. Although the USTS were removed separately, they were located in the same area of the site. A ground water sampling point was gut in-place down gradient of the UST area, about 251 and was sampled too times once offer each of the UST remeable in 1992 & 1995. Each of those gut sampling events showed non-detect for BTEXH/TEH concerns.

The Gus contamination restlected in the two UST closure events may have been altributed to the UST removal process itself. No soil contamination is apparent, on-site receptors are not threatoned and a down gradient sentry used has not been impacted. Closure is recommended.

It is recommended that the release case file for the above-referenced facility be closed out based on the information provided by the facility owner/operator, which is described in this checklist. This recommendation is based an the condition that if future evidence indicates contamination at or emanating from this site, additional investigation and/or remediation may be required.

7-17-98

Table 1

Table Environmental Sensitivity Evaluation F		and Point Score		
Site-Specific Factors (* Identify and explain the extenuating circumstances here)	Ranking Score	Enter Site Data	Unknown (specify DERR research)	Final Ranking Score
Distance from Contamination to Groundwater (feet) >100 100 to 75 75 to 50 50 to 25 25 to 10 <10, or recharge area	0 4 8 12 16 20	N121	* 100 May 500 July 370 Tax Case And	16
Native Soil Type: Low permeability (PT,OH,GH,MH,OL,CL,ML) Mod, permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SML)	0 10 20			20
Annual Precipitation (inches) 10 10 to 20 >20	0 5 10	215		5
Distance to Nearest Municipal Production Well (feet) >5280 1320 to 5280 500 to 1320 <500	0 8 10 15	1300		10
Distance to Other Wells (feet) >1320 300 to 1320 <300	0 5 10	1250'69 HOO	n was too be a second or s	s
•				
Distance to Surface Water (feet) >1000 300 to 100 <300	0 2 5	71000		0
Potentially Affected Populations widnin 3-mile Radius <100 100 to 3000 >3000	0 10 20	>3K		20
Presence of Onsite or Adjacent Utility Conduits Not Present Unknown Present	0 14 15	Prasant		15
•				
Final Score (>65=Level I, 40-65=Level II, <40=Level IU)				91



TABLE I ANALYTICAL TEST RESULTS

,	Date of Sample	Sample Lacation	Sample Hedjum	USC	Sample Depth meters	TPM mg/1 ppn	Benzene mg/l 	Toluene mg/l uppb.	Ethy1 Benzene mg/1	Total Xylene mg/l	Naphthaléne mg/l	, .
UST#1	11/23/92	BNS#I-?	Water		2.1	40.7	∫0.734	1.580	0.361	2.330	د 0:172 نی	
CPHIL: 1992	11/23/92	BHS#1	Water	1	2.1	2.5	<i>2</i>	- 22	42	69.1	<2	
Confirme Some	11/23/95	BIS/2	Hater	7.22 XIV.	2.1	.vsi:<5.	15-40m <2 -15-2	rang (2)	300 × 212	<u>v.⊭≪6</u> ;;	<u></u>	1.11 3
UST#2	9/15/95	HHS#1	Water	1	₹2.1	<.5	4 2	9.8		41.4	.005,4	MIC
closure 1945	9/15/95		Hater	-	2.1	[11	<20	391	150	1570	ु301 ⁻	
Confirm H2U	11/03/95	Tinks	• Hater	15 2 144	<u> </u>	±,34,<5, _{12ℓ}	بهريز 22 سيزع	Market State Line	**************************************	**************************************		120
1945	Utah RBK Drinking	A Tier I Hater				10.0	0.300 0.005	7.000 1.000	4.0 0.7	73.0 10.0	0.100 0.020	

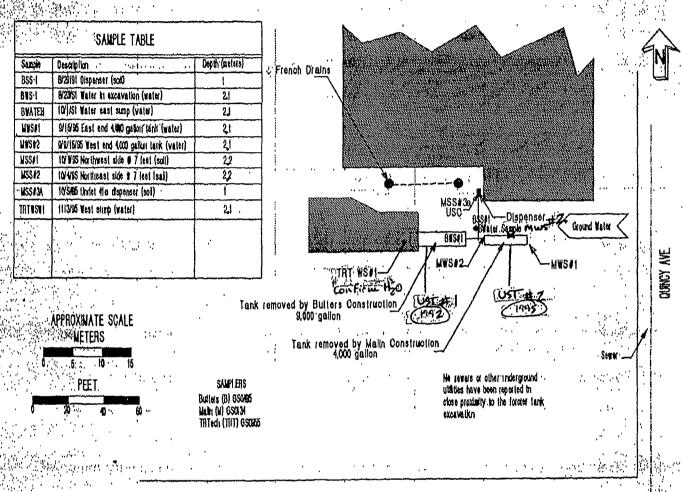
TABLE II
SOIL ANALYTICAL DATA ng/kg (ppm)

	Date of Sample	Sample Location	Sample Hedium	USC	Sample Depth meters	TPH mg/1 ppm	Benzene mg/1 ppb	Toluene mg/l ppb	Ethyl Benzene mg/l	Total Xylene mg/l	Naphthalene mg/l
	08/28/91	BSS#1-D	Soll	SN	1.0	<10.0	<.005	<.005	<.005	<.015	<.00S
UST CO2 M	9/15/95	HSS#3-1	So11	SH	1.0	<10.0				_	
AN Suls	10/04/95	HSS#1	Soll	SP	2.1	<10.0	<.005	<.005	<.005	<.015	<.005
Balumitons Detections	10/04/95	MSS#2	Soil	SP	2.1	<10.0	<.005	<.005	<.005	<.015	<.005
Dilocus	10/06/95	HSS#3-a	Soli	SH	1.0	<10.0	<.005	<.005	<.005	<.015	<.005
	Utah RBC	A Tier I				1500.0	0.900	61.000	23.0	235.0	10.000

CONCLUSIONS AND RECOMMENDATIONS

No contamination appears to be left on this site. Soils were excavated to non-detect levels under the supervision of the County Health Department and the limited contamination in the water has attenuated naturally to non-detect levels.

Markow Manager Commerce



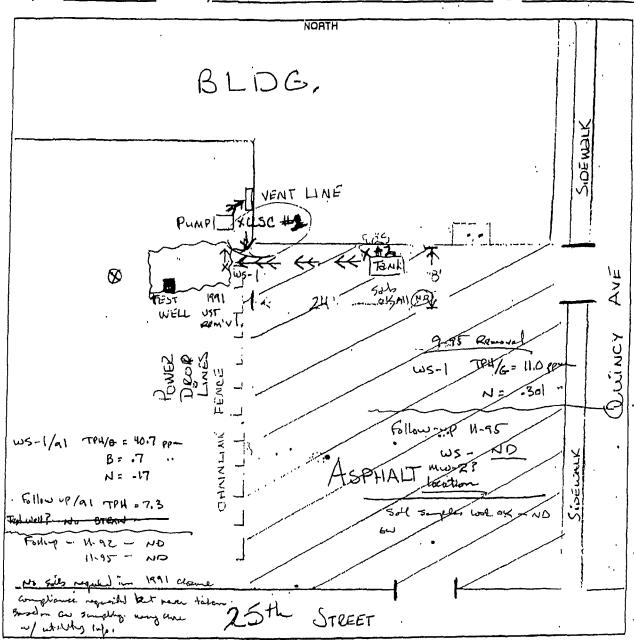
25th STREET

Marchine, And Jack 1968

SITE PLAN WHEELRIGHT LUMBER 2459 QUINCY AVENUE OGDEN, UTAH FACILITY SITE PLAT (CLOSURE NOTICE)

The site plat must show locations of all buildings, streets, property boundaries, tanks, piping, dispenser islands, as underground utilities. The site plat must be drawn to an appropriate identified scale. It must show actual sample locations, substances stored in tanks, and other relevant information. Tank and sample identification numbers must consistent with the information given on p. 1 and 4 of the closure notice.

Facility ID # 1200443 Drawn By R. Ned Malan Date 9,14,95



X = Sample locations (SS-#, WS-#, USC-#)

⊗ = Monitoring Wells (MW-#,)

O = Soil boring (B-#)

Water Wells (domestic, livestock, etc.)

Shelly Quiel allowed the wall employeement (wholwant of Notes: MW 5 not professionally / Properly installed after the Gu contain. Notes site check latter is wally properly one materials.

Naco site check latter is wally properly one materials.

LUST RELEASE/SPILL REPORT

Release Site No. 122450V	Date Received 10-5-95
Fac ID No. 1200443	Date Assigned 10-6-96
Project Manager SMQ	Date Confirmed
Potential PST-Fund Site? Yes	_
Received by <u>Vale Amgon</u>	Time
Name of Reporting Party Company Weber	- Co H.D Phone:
Name of PRP (current o/o)	Phone:
Name of Release Location Lightly Lumby	Phone:
Name of PRP (current o/o) Name of Release Location Release site street address	City:
Type of Release: (piping: suction/pressurized) tank (corrosion/fited Release Date(s) Suspected of Confirm Method of Determination: failed TTT (volumetric/other) w/ leak rate of	ings) spill/overfill pump island
Method of Determination: failed TTT (volumetric/other) w/ leak rate of	gal/hr; Leak Detector Alarm
Inventory loss (gal); failed LTT (volumetric,	/other) w/ leak rate of gal/hr
Field Instrumentation (Model/Type) w/ soil staining;	odors: sheen on H O: Analytical
Analytical Results; Soil (mg/Kg) B NA T B X	N > TPH ND O&G _ TRH_
Analytical Results; Water (ug/L) B NO, T 391, E 150, X 157	<u>2, N 301 , TPH 7 , O&G , Solvents</u>
Substance Released: Gas (UL/Reg) Diesel Waste Oil New Oil	ilOther (specify)
Native Soil Type; Local GW flow direction	; Regional GW flow direction
••	•
RELEASE IMPACTS	
FUMES:HomeBusinessUtilitiesOutdoorsSoils	Water Other (specify)
DAMAGE:Groundwater (~ft BLS)Surface Water*	Drinking Water* Utilities* Soils
Land Surface*Biota/Wildlife*Free Product*	
*EMERGENCY ABATEMENT ACTIONS TAKEN/NEEDED:	
200 Mater ND, 9.8, 5.1, 41.4, 5	
The West of the Control of the Contr	
NON-EMERGENCY ACTIONS TAKEN/PLANNED: The excapace where hundry & when want to those the workle and proceeds	Dispenser inability
LITE Says hole broked " Dietly goo"	· ·
	70.to
How him what they he	W GB
STAFF RECOMMENDATIONS: 1) Sample dispenser a	sam a analyze for
BTEXX; 2) Sangle w end of errowation a	Inalyze for 9777
hindering their husiness of man hop soil	seyer polo since its
hindering Thut business + may be a sal	ers groven.
Annie Voidade VIIID Die Dei Brit Of	•
Agencies Notified:LHDFire DeptEPAOther Agencies On-Site:LHDFire DeptEPAOther	
State Risk Manager notified of 3rd party impacts (direct/potential) on:	by:

! [The sale of the sa	• •	Facility: ID # 12	00443
		State	Jse Only	
	207 2 0 1000		-9-95 by G	AH
	OCT 3 0 1995	Date Mailed to LHD Samples in LUST File #	12295 DV	SMA
	Medicard in will a special	Samples to LUST Revie	ew	
	Ì			
	Closure Notice proposed at the contract of the		D 'Ned Wellen	•
	Closure Notice prepared at the request of the owner/operat			
	of (company name) Malan Const Address 1055 E 1700 N		Phone # <u>(8 0 1)</u> State_ <u>UT</u> Zi	
	, , , , , , , , , , , , , , , , , , ,	City Oddeii		p <u>0440</u>
	FACILITY INFORMATION	•		•
		F	hone # /801 \ 62	7-0850
	[] dba (individual doing business as) [] sole proprietors		\	7 0030
	Address 2459 Ouincy			
	Facility Name WHEELWRIGHT LUMBER	Oily Odden	Otate OT Lib	naaht -
		24. Ondo	CARLO IIII Zin	94401
	Address 2459 Quincy		_State_UT_Zip_	
	Contact personHal_Wheelwright Number of regulated tanks at the facility before closure:		801) 627-0850	\rightarrow
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE X Permanent [] Temporar	<u>]</u>)_ y []Change-In-Se	rvice	ノ ・
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE]) y [] Change-in-Se [] Sludge was rem	rvice noved $\frac{1}{2}$ Tank w	ノ ・
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE	l) y []Change-in-Se []Sludge was rem Ory Ice 15# per	rvice loved χ_{x} l Tank w.	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE] y []Change-in-Se []Sludge was rem Dry Ice 15# per L055 E 1700 N (rvice loved χ_{x} l Tank w.	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE	L y [] Change-in-Se [] Sludge was rem Dry Ice 15# per L055 E 1700 N	rvice loved χ_{x} l Tank w.	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE	y [] Change-in-Se [] Sludge was rem Dry Ice 15# per	rvice loved χ_{χ} Tank w. 1,000 gal Ogden, UT 844	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE	Change-in-Se [] Change-in-Se [] Sludge was rem Cry Ice 15# per L055 E 1700 N (rvice loved $\begin{cases} \frac{1}{2} \\ \frac{1}{2} \end{cases}$ Tank was 1,000 qal Oqden, UT 844	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE	y [] Change-in-Se [] Sludge was rem Dry Ice 15# per L055 E 1700 N (rvice loved $\frac{1}{2}$ Tank was 1,000 gal Ogden, UT 8441 se detection equipment tal capacity of UST.	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE	Change-in-Se [] Change-in-Se [] Sludge was rem Ory Ice 15# per L055 E 1700 N () is operating. [] Releas % by weight of to les [] pumps []	rvice loved	as cleaned.
,	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE Permanent Temporar Permanent or Chance-in-Service Purged Pur	y [] Change-In-Se [] Sludge was rem Dry Ice 15# per L055 E 1700 N () is operating. [] Releas% by weight of to les [] pumps [] aded [] Exten	rvice loved	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE Permanent Temporar Permanent or Chance-In-Service Purpoise Purpoise	y [] Change-in-Se [] Sludge was rem Dry Ice 15# per L055 E 1700 N is operating. [] Releas% by weight of to les [] pumps [] aded [] Exten	rvice loved x_{x} Tank with the second sec	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE Permanent Temporar Permanent or Chance-In-Service Purged Nethod Used: Tank was: Purged Nethod Used: Location of Closure Records R. Ned Malan For in-place closure: tanks filled with Substance to be stored for Change-In-Service Temporary Fuel was emptied. Corrosion protection Residue depth remaining in tank Inches, or 3 months: Vent lines open Cap/Secure: Imporation 12 months: Permanently closed New/Upgratanks CLOSED Tank # 1	Change-in-Se [] Change-in-Se [] Sludge was rem Ory Ice 15# per L055 E 1700 N () is operating. [] Releas % by weight of to les [] pumps [] aded [] Exten	rvice loved \(\frac{1}{2} \) Tank was 1,000 qal Oqden UT 844 Se detection equipment stal capacity of UST. manways slon request	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE Permanent Temporar Permanent or Chance-In-Service Fuel was emptied Tank was: Purged Inerted Method Used: Location of Closure Records R. Ned Malan For in-place closure: tanks filled with Substance to be stored for Change-In-Service Temporary Fuel was emptied. Corrosion protection Residue depth remaining in tank Inches, or In	y [] Change-in-Se [] Sludge was rem Dry Ice 15# per L055 E 1700 N () is operating. [] Releas% by weight of to les [] pumps [] aded [] Exten	rvice loved x_{x} Tank w. 1,000 qal Odden, UT 8441 se detection equipment stal capacity of UST, manways sion request	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE Permanent Temporar Permanent or Chance-In-Service Preservice Preservice	y [] Change-in-Se [] Sludge was rem Dry Ice 15# per L055 E 1700 N () is operating. [] Releas% by weight of to les [] pumps [] aded [] Exten	rvice loved x_{x} Tank w. 1,000 qal Odden, UT 8441 se detection equipment stal capacity of UST, manways sion request	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE Permanent Temporar Permanent or Chance-In-Service Fuel was emptied Tank was: Purged Inerted Method Used: I	y [] Change-In-Se [] Sludge was rem Dry Ice 15# per L055 E 1700 N () is operating. [] Releas% by weight of to les [] pumps [] aded [] Exten	rvice loved x_{x} Tank w. 1,000 qal Odden, UT 8441 se detection equipment stal capacity of UST, manways sion request	as cleaned.
	Number of regulated tanks at the facility before closure: Number of regulated tanks at the facility after closure: TYPE OF CLOSURE Permanent Temporar Permanent or Chance-In-Service Preservice Preservice	Change-in-Se [] Sludge was rem Cry Ice 15# per L055 E 1700 N is operating. [] Releas % by weight of to les [] pumps [] aded [] Exten	rvice loved x_{x} Tank w. 1,000 qal Odden, UT 8441 se detection equipment stal capacity of UST, manways sion request	as cleaned.

....

						, 10 0
TANK REMOVER Name R. Ned Malan		_ Cert. # <u>Tl</u>	H 009	<u>12 Exp</u>	o, date	10-9:
Company Malan Const		Phone # (801	1 78	32-570	7 ''
Address 1055 E 1700 N City	Ogđen		State_	UT. Zip	<u>84</u>	404
SOIL/GROUNDWATER SAMPLER Name R. Ned Mala	n	Cert. # <u>GS</u>	0135	Exp.	date7	-96
Company Malan Const						
Address 1055 E 1700 N City						
DISPOSAL SITES USED:						
Tank:Atlas Steel	Date	9.15.9	35	Number	٦	
Product from Tank: NAT'L TANK MONITORING	Date	9.15.0)5	Amount	7() =	a.C
Contaminated water from tank cleaning: NAT'L TANK MON	Date	9 15 0	15	Amount	12/7 K	i'r yyd
Sludge:						2 1 1 1 1 A
Contaminated Water:						· · · · · · · · · · · · · · · · · · ·
	Yes		No	No	ot applica	ole
Is any contaminated soil which was overexcavated still on site? SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Information locations, depths, and other information on all soll/groundwate	Yes	e (Closure l	No Notice)	on pages	ot applica	ole to show
Is any contaminated soil which was overexcavated still on site? SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Information on all soil/groundwate consistently identified by sample ID # on the site plat, table, and laid	Yes	e (Closure l	No Notice)	on pages	ot applica	ole to show
Is any contaminated soil which was overexcavated still on site? SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Information locations, depths, and other information on all soil/groundwate consistently identified by sample ID # on the site plat, table, and laid (X) Completed Facility Site Plat (Closure Notice) is attached.	Yes ution Table or samples o analysis	e (Closure l	No Notice)	on pages	ot applica	ole to show
Is any contaminated soil which was overexcavated still on site? SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Information locations, depths, and other information on all soil/groundwate consistently identified by sample ID # on the site plat, table, and lal (X) Completed Facility Site Plat (Closure Notice) is attached. (X) Completed Sample Information Table (Closure Notice) is attached.	Yes Ition Table or samples or analysis	e (Closure l	No Notice)	on pages	ot applica	ole to show
SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Information on all soll/groundwate consistently identified by sample ID # on the site plat, table, and lal (x) Completed Facility Site Plat (Closure Notice) is attached. (x) Completed Sample Information Table (Closure Notice) is attached. (x) Completed Sample Information Table (Closure Notice) is attached.	Yes Ition Table or samples or analysis	e (Closure l	No Notice)	on pages	ot applica	ole to show
SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Information locations, depths, and other information on all soll/groundwate consistently identified by sample ID # on the site plat, table, and lal (X) Completed Facility Site Plat (Closure Notice) is attached. (X) Completed Sample Information Table (Closure Notice) is attached. (X) Certified lab analytical environmental sample results are attached. (X) Unified Soil Classification (USC) sample results are attached.	Yes Ition Table or samples or analysis	e (Closure l	No Notice)	on pages	ot applica	ole to show
SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Informative locations, depths, and other information on all soll/groundwate consistently identified by sample ID # on the site plat, table, and ial (X) Completed Facility Site Plat (Closure Notice) is attached. (X) Completed Sample Information Table (Closure Notice) is attached. (X) Certified lab analytical environmental sample results are attached. (X) Unified Soil Classification (USC) sample results are attached.	Yes ation Table or samples or analysis hed.	e (Closure l s taken for report,	Notice)	on pages	3 and 4 amples	ole to show
SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Information locations, depths, and other information on all soli/groundwate consistently identified by sample ID # on the site plat, table, and lal [X] Completed Facility Site Plat (Closure Notice) is attached. [X] Completed Sample Information Table (Closure Notice) is attached. [X] Completed Sample Information Table (Closure Notice) is attached. [X] Certified lab analytical environmental sample results are attached. [X] Unified Soil Classification (USC) sample results are attached. [X] Chain of Custody form is attached. [X] Samples were properly: (X) Collected [X] Labeled	Yes Ition Table or sample or analysis hed. Item (e (Closure I s taken for report.	Notice) closur	on pages e. The s	3 and 4 amples	ole to show
SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Informative locations, depths, and other information on all soll/groundwate consistently identified by sample ID # on the site plat, table, and ial [x] Completed Facility Site Plat (Closure Notice) is attached. [x] Completed Sample Information Table (Closure Notice) is attached. [x] Certifled lab analytical environmental sample results are attached. [x] Unified Soil Classification (USC) sample results are attached.	Yes Ition Table or sample or analysis hed. Item (e (Closure I s taken for report.	Notice) closur	on pages e. The s	3 and 4 amples	ole to show
SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample information locations, depths, and other information on all soll/groundwate consistently identified by sample ID # on the site plat, table, and lale [X] Completed Facility Site Plat (Closure Notice) is attached. X] Completed Sample Information Table (Closure Notice) is attached. X] Certified lab analytical environmental sample results are attached. X] Unified Soil Classification (USC) sample results are attached. X] Chain of Custody form is attached. Samples were properly: (X) Collected [X] Labeled [X] Samples were in sight of the person in custody at all time certify under penalty of law that the closure site assessment is 311-202 (parts 280.52 and 280.72) and R311-205 U.A.C., and the	Yes Ition Table or sample: or analysis hed. [XX] Pactors or in a second or in	e (Closure I s taken for report.	Notice) closur	on pages e. The s ransporter	3 and 4 amples o	to show nust be
SITE ASSESSMENT Complete the Facility Site Plat (Closure Notice) and Sample Information locations, depths, and other information on all soll/groundwate consistently identified by sample ID # on the site plat, table, and lal [x] Completed Facility Site Plat (Closure Notice) is attached. [x] Completed Sample Information Table (Closure Notice) is attached. [x] Certified lab analytical environmental sample results are attached. [x] Unified Soil Classification (USC) sample results are attached. [x] Chain of Custody form is attached. Samples were properly: (x) Collected [x] Labeled	Yes Ition Table or sample or analysis hed. [XX] Pac s or in a sected. at this factors	e (Closure I s taken for report.	Notice) closur (x) Toked places	on pages e. The s ransported ace.	3 and 4 amples o	to show nust be

A common the state of the second common contraction of the second cont

FACILITY SITE PLAT (CLOSURE N

The site plat must show locations of all buildings, streets, property boundaries, tanks, piping, dispenser Islands, ar underground utilities. The site plat must be drawn to an appropriate identified scale. It must show actual sampling locations, substances stored in tanks, and other relevant information. Tank and sample identification numbers must consistent with the information given on p. 1 and 4 of the closure notice.

9.14.95 Facility ID # 1200443 Drawn By R. Ned Malan NORTH BLDG, VENT LINE 8 STREET

- X = Sample locations (SS-#, WS-#, USC-#)
- ⊗ = Monitoring Wells (MW-#,)O = Soil boring (B-#)
- = Water Wells (domestic, livestock, etc.)

COME AND THE PROPERTY OF THE P Complete table for all samples that were taken for closure. Sample ID numbers on the table must be consi. with the sample ID pbers given on the site plat and in the analysis report. Sample #/Lab ID# Sub. stored Analysis method(s)4 Spl. type1 Depth² Compounds' 8015 mod/EPA LOC Unld TPH & BTEX 8015 mod/ EPA (@ TPH & BTEX Unld A DTEX Unid 井口 #.1 Unlid USC 1 Soil (SS), Groundwater (GW), or Unified Soil Classification (USC), Final depth (in feet) below grade at which samples were taken. Contaminant compound(s) analyzed for each sample (TPH, BTEXN, O&G, etc). Appropriate analysis methods for contaminant compound(s) in each sample (8015 mod., 8020, 413.1, etc). State Certified Laboratory used: UTILITY TESTING LABORATORY State UT Zip 84104 875 Chestnut St City SLC Contact person ____ Don Thorsen Phone # (801.) Please explain any unusual or extenuating circumstances encountered during the site assessment or closure: I certify under penalty of law that I am the Owner of the tank(s) described above and that I am familiar with t Information on this form and that it is tme, accurate and complete and further, that the procedures describ herein were followed during tank clospre. Signature of UST Owner Date 9.15.95 Full name of Owner Hal Wheelwright, President Return completed Closure Notice form, Facility Site Plat and Sample Information Table, Soil/Groundwater sample analysis results. USC sample results, and Chain of Custody form within 90 days of UST Closure to: State of Utah Dept. of Environmental Quality Division of Environmental Response and Remediation UST Section 150 North 1950 West 2nd Floor Salt Lake City, Utah 84116

TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNLA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No.

WATER SAMPLE

Test Results mg/Kg, mg/L (ppm)

09-15-95-20

WS #2

11.0 mg/L Gasoline < 0.5 mg/L Diesel 11.0 mg/L TPH ·

Date Analyzed: 23 SEPT 1995

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) **USING PURGE & TRAP METHOD 5030** METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 09-15-95-20 WATER SAMPLE

WS #2

Test Results ug/Kg, ug/L (ppb)

Date Analyzed: 22 SEPT 1995

< 20 µg/L Benzene 391 Ag/L Toluene

150 jug/L Ethylbenzene 1,570 µg/L Xylenes, Total

301, µg/L Naphthalene

UTILITY TESTING LABORATORY

D. M. Theorsen



875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH Testing - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 09-15-95-21

SOIL SAMPLE

The state of the s

SS#3 - 1

Date Analyzed: 23 SEPT 1995 Test Results mg/Kg, mg/L (ppm)

< 10 mg/Kg Gasoline < 10 mg/Kg Diesel

< 10 mg/Kg TPH

UTILITY TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 09-15-95-19

WATER SAMPLE

Test Results mg/Kg, mg/L (ppm)

WS #1

< 0.5 mg/L Gasoline < 0.5 mg/L Diesel < 0.5 mg/L TPH

Date Analyzed: 23 SEPT 1995

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 09-15-95-19

WATER SAMPLE

Test Results ug/Kg, ug/L (ppb) < 2 µg/L Benzene

09-15-95-19

WS #1

9.8 \mug/L Toluene 5.1 \mug/L Ethylbenzene

Date Analyzed: 22 SEPT 1995

41.4 µg/L Xylenes, Total

5.0 ug/L Naphthalene

UTILITY TESTING LABORATORY

D.M. Thorsen

À
•
- Co.
T-

Utility Testing Laboratory

CHAIN OF CUSTODY

875 South Chestnut Street Salt Lake City, Utah 84104 Phone: 801-973-8305 FAX: 801-973-8333 Analysis oject Number: Project Name: Report To (print): FAC ID #1200443 WHEELWRIGHT LMB R. NED MALAN 8015 mod Sampler's Signature: No. ".O. Number: nsc REMARKS Sample Identification **Pate Sampled** Sample Time cont. Matrix 2 each 9.15.95 9.15.95 9.15.95 usc, 72 Date/Time: 9 15/15 Received (signature) SEND RESULTS TO (Company Name) CONDITION OF SAMPLES quished (signature): Show Makan MALAN CONST i Yes □ No Samples Chilled: clinquished (signature): Date/Time: Received (signature) to the attention of: D No Seals Intact: M Yes R. NED MALAN Received (signature) Date/Time. Address: Selinguished (signature): 1055 E 1700 N Remarks: Oqden, UT 84404 Date/Time: relinquished (signature): Received (signature) Phone: OMMENTS: Fax:

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: Uniform Soil Classification

ASTM Method D2488-90 - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

Following are the test results on your subject samples;

Test No. 09-15-95-22

Color of Sample:
BROWN
Toughness:
N/A
Piasticity:
NON-PLASTIC
Description of Sample:
SILTY SAND WITH GRAVEL

Composition of Sample by Sieve Analysis:

COARSE GRAVEL < 76.0 mm - 10%
FINE GRAVEL < 19.0 mm - 10%
COARSE SAND < 4.0 mm - 20%
MEDIUM SAND < 2.0 mm - 15%
FINE SAND < 0.425mm - 30%
FINES < 0.075mm - 15%

* ND INDICATES NOT DETECTED

UTILITY TESTING LABORATORY

D. M. Thorsen ps

D. M. Thorsen

Customer I.D. USC#1

Dry Strength:
LOW
Reaction with 1:1 HCl:
STRONG
Classification:
(SM)

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: Uniform Soil Classification

ASTM Method D2488-90 - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

Following are the test results on your subject samples;

Test No. 09-15-95-23

Color of Sample:
BROWN
Toughness:
N/A
Piasticity:
NON-PLASTIC
Description of Sample:
POORLY GRADED SAND WITH GRAVEL

Composition of Sample by Sieve Analysis:

 COARSE GRAVEL
 < 76.0 mm - ND</td>

 FINE GRAVEL
 < 19.0 mm - 20%</td>

 COARSE SAND
 < 4.0 mm - 15%</td>

 MEDIUM SAND
 < 2.0 mm - 40%</td>

 FINE SAND
 < 0.425mm - 25%</td>

 FINES
 < 0.075mm - ND</td>

* ND INDICATES NOT DETECTED

UTILITY TESTING LABORATORY

D. M. Thorsen,

D. M. Thorsen

Customer I.D. USC#2

Dry Strength: LOW Reaction with 1:1 HCI: STRONG Classification: (SP) RICHARD MALAN 1055 E 1700 N. No. Ogden, UT 84404 782-5707

WHEELWRIGHT LUMBER 2459 Quincy Ogden, UT 84401

RE: UST CLOSURE - ADDITIONAL SAMPLES

Per conversations with Holger Sass, Weber County Health; and Shelly Quick, Dept of Derr, additional samples were required to close said tank hole to recover for parking purposes. Samples and results required to be on file:

Oct 4th and Oct 5th, 1995:

(3) Soil Samples:

SS #1

SS #2

SS #3A

Samples delivered to Utility Testing on respective dates: Samples Fees, Lab costs, transportation fees, phone expenses

	*
	£.
	=
•	-F-

Utility Testing Laboratory

CHAIN OF CUSTODY

		875 South Chestnut S	treet Salt La	ke City	Utah	84104	Pho	e: 801-	-973-83	30 S	FAX: 8	01- 9 73	-8333			u ā
Project Number:		Project Name:					Anal	ysis					l To (pr			i.
fac TO# 1	1211443	wheelwriaht Lu	mber)	-					R.	Ne	1 Majar		
O. Number:	<u> </u>	Sampler's Signature:	_	8015 VM 01	d	BTEXN	1		1			No.				
1		The Ma		3 8	<i>EPA</i> 80a0	6		1	1			of			•	
1) ale Sampled	Sample Time	Sample Identific	ation	600	M 80	9						cont.	Matrix	REMA	IRKS	
10-4-95	4:59	SS#/		V	/	V						_1_		7' depth	NWS	<u>ide</u>
10-4-95	5:01	SS #2		V	V	V								7' depth	1) & 5	31de
													_			
													 			
													-			
		}		 	-	 			-				 	 		
										-			 			
			· ·			-						· .	 			
		 		 	-								├			
•				 		ļ					<u> </u>		}			
				 	 	 	<u> </u>						<u> </u>			
				<u> </u>	<u> </u>	<u> </u>						<u> </u>	<u> </u>			-
inquished (sign	iature):	Date/Time:	Received (s	ignature	3			SEN	D RESU	ILTS TO	(Com	pany N	ame)	CONDITION	OF SAMP	<u>LES</u>
RNul	Mil.	10-4-95	Sha	4 (1	ila	lan	. /	M	ala	n l	Son	st.		Samples Chilled:)⊉ Yes	□ No
elinquished (sign		Date/Time:	Received (s	ignature				To the	attentio	n of:	<u> </u>	<u> </u>		Samples Craned:	<i>y</i> e 1.3	2 1.0
			10 1		0				. 1	1	. 1	1.	`	Seals Intact:	Yes Yes	□ No
Sharn	alan_	10-5-95	auf	00	Con	con		K.		Ed	M	α/α	N_		·	
Relinquished (sign	rature):	Date/Time:	Received (s	ignature	2)			Addres:	s: 055	بر بح	7171	1)2)	Samples Preserved:	Yes	□N°
								11	1000	<i>C</i> /	700 116	1.00	(IINI	Remarks:		
Relinquished (sign	nature):	Date/Time:	Received (s	ignature	-)			L)9de	01),	U TU	487	704			
	_		ł					Phone:		200	. ــــر]		
	<u> </u>		<u> </u>					 		78 ₂	- 2	10/		· ·-		;
COMMENTS:								Fax:						-		į

875 SO, CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305

FAX: (801) 973-8333

October 17, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright Lumber #1200443

Sample Collected: 04 Oct 1995

Sample Received: 05 Oct 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 10-05-95-02 SOIL SAMPLE

SS#1

7' DEPTH NW SIDE

Test Results mg/Kg, mg/L (ppm)

< 10 mg/Kg Gasoline < 10 mg/Kg Diesel

Date Analyzed: 10 OCT 1995

< 10 mg/Kg TPH

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) USING PURGE & TRAP METHOD 5030 METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 10-05-95-02 SOIL SAMPLE

SS#1

7' DEPTH NW SIDE

Date Analyzed: 13 OCT 1995

Test Results ug/Kg, µg/L (ppb)

< 5 µg/Kg Benzene

< 5 jig/Kg Toluene

< 5 µg/Kg Ethylbenzene

< 15 μg/Kg Xylenes, Total

< 5 µg/Kg Naphthalene

UTILITY TESTING LABORATORY

D.m. Thorsen

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

October 17, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright Lumber #1200443

Sample Collected: 04 Oct 1995

Sample Received: 05 Oct 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No.

SOIL SAMPLE

Test Results mg/Kg. mg/L (ppm)

10-05-95-03

SS#2

< 10 mg/Kg Gasoline

7' DEPTH NE SIDE

< 10 mg/Kg Diesel < 10 mg/Kg TPH

Date Analyzed: 10 OCT 1995

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) USING PURGE & TRAP METHOD 5030 METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No.

SOIL SAMPLE

Test Results ug/Kg, ug/L (ppb)

10-05-95-03

SS#2

< 5 µg/Kg Benzene < 5 jig/Kg Toluene

Date Analyzed: 13 OCT 1995

< 5 μg/Kg Ethylbenzene

< 15 µg/Kg Xylenes, Total

< 5 µg/Kg Naphthalene

UTILITY TESTING LABORATORY

J. m. Thorsen

Utility	Testing	Labora
•		-

CHAIN OF CUSTODY

FAX: 801-973-8333 875 South Chestnut Street Salt Lake City, Utah 84104 Phone: 801-973-8305 Analysis Report To (print): Project Number: Project Name: B. Ned Malan FACH 1200443 No. P.O. Number: of REMARKS - Sampled Sample Time Sample Identification cont. Matrix Taken under 1.30 pm SEND RESULTS TO (Company Name) CONDITION OF SAMPLES Date/Time: Received (signature) Relinguished (signature): 10-6-95 Samples Chilled: Yes Received (signature) Relinquished (signature): Date/Time: □ No Seals Intact: Received (signature) Samples Preserved: LLYes Relinquished (signature): Date/Time: Address: 1055 € 1760 NO Remarks: Reiinquished (signature): Date/Time: Received (signature) Phone: 782-5717

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

October 19, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright Lumber #1200443

Sample Collected: 06 Oct 1995

Sample Received: 09 Oct 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No.

SOIL SAMPLE

Test Results mg/Kg, mg/L (00m)

10-09-95-06

S/S #3-A

< 10 mg/Kg Gasoline < 10 mg/Kg Diesel

Date Analyzed: 11 OCT 1995

< 10 mg/Kg TPH

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) USING PURGE & TRAP METHOD 5030 METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No.

SOIL SAMPLE

< 5 µg/Kg Benzene

10-09-95-06

S/S #3-A

< 5 µg/Kg Toluene

Date Analyzed: 14 OCT 1995

< 5 µg/Kg Ethylbenzene

Test Results ug/Kg, ug/L (ppb)

< 15 µg/Kg Xylenes, Total

< 5 µg/Kg Naphthalene

UTILITY TESTING LABORATORY

D.M. Thorsen D. M. Thorsen

Telephone Documentation

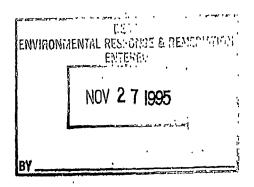
Contact: Hol Wheelers of Date/Time: 7-3-96
Representing: Weolwight Lowber Phone # 677-0850
Facility I.D. 1700443 I.UST I.D. EHBW/EJOV
Discussion Summary: I introduced myself as the new P. un to this side and indicated that some issues were. 5/:11 hanging, regarding my dosor ravious.
boundary and the location of a "mu-z" Sampled by TR Tech
Mr. what wright thought the site was closed. TR Techniques and him that a State letter was forth coming. I said that the Orde reviewed TR Tach 1250, dated 11-95 but that no State letter was yet 155 wad.
Also must were not properly employed (Sup allows them to accept. Per Hel W.
T said I would revisit the possisitify of clone if the www information, and get back with me.
Signed: Were loque i extent.
Provide intelliby mg. Obtime Sull i mentage - Send site cheel.
7-3-26 use

SCANNED

DERR - 1995 - 068943

ABATEMENT AND INITIAL SITE CHARACTERIZATION SITE SENSITIVITY, SUB-SURFACE INVESTIGATION AND

RISK BASED CORRECTIVE ACTION



Prepared For Hal Wheelwright Wheelwright Lumber Co. 2459 Quincy Ave. Ogden, Utah

by TIRTech, Inc. P.O. Box 7

Farmington, Utah 84025 FAX (801) 451-9715 e-mail angfanger@aol.com

Job 145

November 21, 1995

ABSTRACT

The Wheelwright Lumber Co. LUST site (facility 1200443), located at 2459 Quincy Avenue in Ogden, Utah, meets the criteria for a Tier I Risk Based Corrective Action closure. The site involves two separate tank removals on adjacent tanks. The first tank was removed in 1982 by Butters Construction. There was limited water contamination and two sumps were installed. The second removal in 1995 was conducted by Malin Construction. A limited amount of contaminated soils were removed and minor water contamination was noted.

The closure samples met RBCA standards for soils and the waters were so close that it was probable that the air-sunlight exposure during the tank removal would have reduced the levels to RBCA closure standards. At closure TPH were 1 ppm too high and naphthalene was 0.201 ppm too high. The down gradient sump was still in place so we determined to take a confirmation sample at this point to determine if the exposure to air and sunlight during the tank removal was sufficient to bring the levels to below RBCA standards.

The site was checked for surface indications of underground utility conduits within 15.5 meters (50 feet) of the excavation. No sensitive receptors were noted with in the estimated zone of influence.

The confirmation sample from the sump was non-detect in all categories so the site appears to be ready for closure.

She map to scale Loc. of whilties + depth Luce of Pour good W.S. dist to builders have

SITE DESCRIPTION

Wheelwright Lumber Co. has been on the comer of 25th South and Quincy Avenue since 1908. The facility took on its current configuration in 1978. The facility consists of three structures; a masonry office, sales and warehouse building (with a partial basement); a yard office made of wood and a masonry door shop. The surface topography slopes down gently westward, toward Washington Blvd.

The property is bounded on the east by Quincy Avenue; east across Quincy is The Ogden Clinic and residences; to the south across 25th Street is an auto repair shop (LUST site); to the west are commercial offices currently occupied by a collection service and to the north are the IGA grocery store and Pay Less Drugs.

Surface observations suggest that no utility conduits bisect the excavation and none appear to be near enough to be affected by the release.

Date Sample Naphthalene Sample Sample TPH ToTuene Ethyl Total Benzene ocation **Hedium** µg/1 ppb Benzepe pg/i Xylene Hg/1 Depth mg/1 pg/1 Sample meters pg/1ppm ppb T1/23/92 Pit-1-1 Hater 2.1 <2 <2 69.1 2.5 <2 <2 11/23/95 P1t-1-2 <6 **Hater** <2 <2 <2 <21.6 2,1 <.5 9/15/95 Pit-2-1 **Hater** 2.1 <2 9.8 5.1 41.4 5.0 <.5 9/15/95 P1t-2-2 **Hater** 2,1 11 <20 391 150 1570 301 1/03/95 MH-2 **Hater**

TABLE I ANALYTICAL TEST RESULTS

CONTAMINATION REMAINING ON SITE

No contamination appears to be left on this site. Soils were excavated to non-detect levels under the supervision of the County Health Department and the limited contamination in the water has attenuated naturally to non-detect levels.

QUALITY CONTROL

Closure samples were taken by a certified sampler following approved DERR proto-

Abatement, Site Sensitivity, Subsurface Investigation and Risk Based Closure Recommendations Wheelwright Lumber Co., Facility 1200443

cols. Samples were sent to a certified testing laboratory for analysis.

The samples were tested according to protocols in effect in the summer of 1995.

CONCLUSIONS AND RECOMMENDATIONS

According to our understanding of the Risk Based standards this property should meet closure criteria without any further action or testing so we do not anticipate any further action at this site.

As always if you have any questions or comments please call (801) 451-9714 or FAX (801) 451-9715.

Theodore R. Matcher Geochemist

TRT/trt

REFERENCES

Atlas, R. M., (Ed.), 1984, Petroleum Microbiology, New York: Macmillan.

Fiero, B., 1986, Geology of the Great Basin, Reno: University of Nevada Press.

Stecher, P. G. (Ed.), Finkel, M. J., Siegmund, O. H. and Szafranski, B. M., 1960, The Merck Index, Rahway, N. J.: Merck & Co.

Corbitt, R. A., 1990, Standard Handbook of Environmental Engineering, New York: Mc Graw-Hill Publishing Co.

Brooks, B. T., 1950, Second Edition, <u>The Chemistry of the Non-benzoid Hydrocarbons</u>, New York: Reinhold Publishing

Gruse, W. A. and Stevens, D. R., 1942, Second Edition, <u>The Chemical Technology of Petroleum</u>, New York: McGraw-Hill Book Co.

Gesteinfarben, 1981, Ministerium Fiir Geologic, Berlin, DDR.

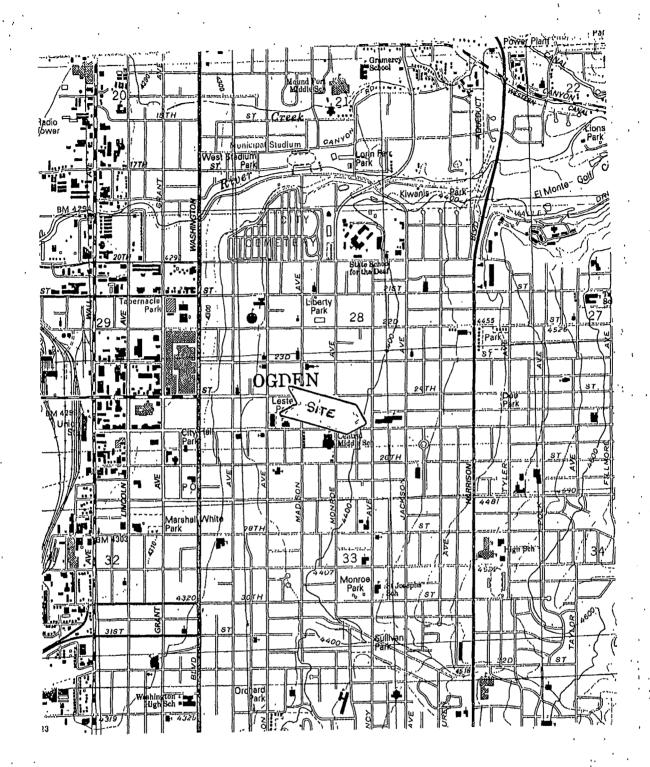
Clark, D.W., Appel, C.L., Lambert, RM., and Puryear, R.L., 1990, <u>Ground-water Resources and Simulated Effects of Withdrawals in the East Shore area of Great Salt Lake</u>, <u>Utah</u>, Utah Department of Natural Resources Technical Publication 93, 150p.

Abatement, Site Sensitivity, Subsurface Investigation and Risk Based Closure Recommendations Wheelwright Lumber Co., Pacility 1200443

APPENDIX A

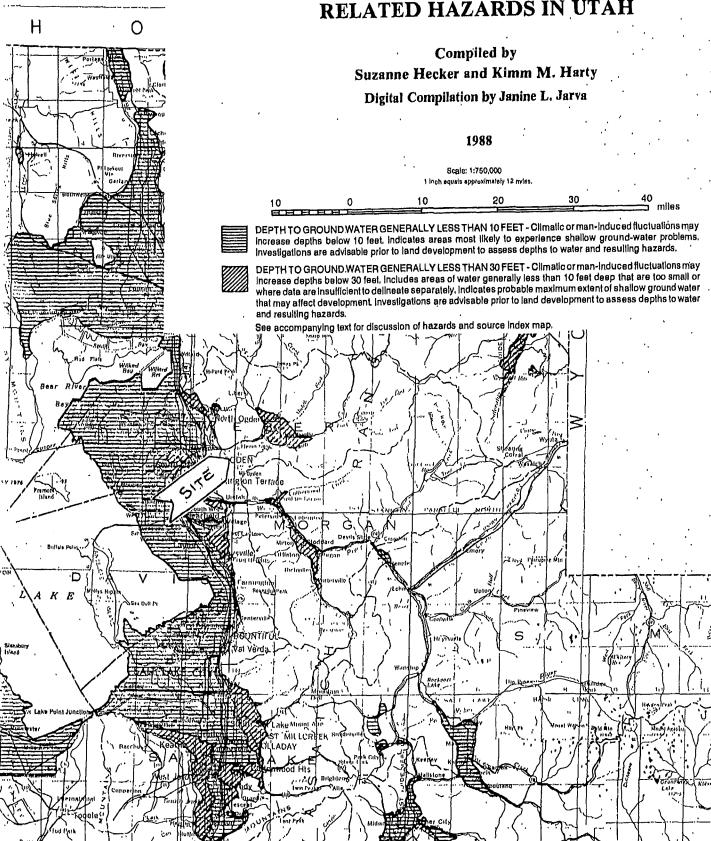
Vicinity Map
Site Map

Map 110 Shallow Ground Water and Related Hazards in Utah



VICINITY MAP
WHEELWRIGHT LUMBER CO.
2459 QUINCY AVENUE
OGDEN, UTAH
Scale 1:24,000

SHALLOW GROUND WATER AND RELATED HAZARDS IN UTAH



Abatement, Site Sensitivity, Subsurface Investigation and Risk Based Closure Recommendations Wheelwright Lumber Co., Facility 1200443

APPENDIX B

Certificates of Analysis
Chain of Custody

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

November 15, 1995

TRTech, Inc. P.O. Box 7 Farmington, UT 84025

Attention: Mr. Theodore Thatcher

Subject: TPH/BTEX Testing - Proj. - Whellwright #145

Sample Collected: 03 Nov 1995 Sample Received: 03 Nov 1995

Comments: None

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 11-03-95-07 WATER SAMPLE

Test Results mg/Kg, mg/L (ppm)

WS#1

< 0.5 mg/L Gasoline < 0.5 mg/L Diesel . < 0.5 mg/L TPH

Date Analyzed: 06 NOV 1995

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) USING PURGE & TRAP METHOD 5030 METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 11-03-95-07 WATER SAMPLE

WS#1

Test Results ug/Kg, ug/L (ppb) < 2 µg/L Benzene < 2 µg/L Toluene

Date Analyzed: 09 NOV 1995

< 2 µg/L Ethylbenzene < 6 µg/L Xylenes, Total

< 2 µg/L Naphthalene

UTILITY TESTING LABORATORY

J.M. Thorsen

D. M. Thorsen

.. 🗯

Utility i esting Laboratory

CHAIN OF CUSTODY

		875 South Chestnut S	treet Salt La	ke City,	Utah	84104		ne: 801-	973-83	305	FAX: 8				<u>.</u>	
Project Number:		Project Name:					Ana	lysis				Report To (print):				
45		Wheelwright			2	1						Te	d Th	natcher		<u>. </u>
P.O. Number:		Sampler's Signature:		ЬH	TEXN	1		,				No. of		•	•	
Date Sampled Sample Time		Sample Identitication		1	BT	'						cont.	Matrix	REM	ARKS	
11-3-95	li30AM	WS #1										3	HOH			
					1										•	
					,											
	•	-			, i										-	
									一一							
					—				j							
					+ - \					_		 				
					<u> </u>										-	
					T .						T .					
· ·																
				1								1	1		-	
						1									-	
Relinquished (signature):		Date/Time:	Received (s	ignature	')			SEND RESULTS TO (Company Name)						CONDITION	OF SAMP	LES
thinks thatet		11-3-95 2:25		DNILLENSTO				TRTech					Samples Chilled:	\$1 YES	. D No	
Relinquished (signature):		Date/Time:	Received (s	signature	2)			To the attention of:						Seals Intact:	I Yes	_ No
									Ted Thatcher					1		
Relinquished (signature):		Date/Time: Received (signature)						Address: P.C. BCX 7						Samples Preserved	: 🗆 Yes	
Relinquished (signature):		Date/Time:	ignature	ignature)				Farmington Ut 84035					Remarks:			
		.]	•		Phone: J (801) 451 - 9714						· ·					
COMMENTS:								Fax 801) 451-9715							:	·

875 SO. CHESTNUT ST P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEI (MODIFIED CALIFORNIA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 09-15-95-19 WATER SAMPLE

Test Results mg/Kg, mg/L (ppm)

WS #1

< 0.5 mg/L Gasoline < 0.5 mg/L Diesel.

Date Analyzed: 23 SEPT 1995

< 0.5 mg/L TPH'

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) USING PURGE & TRAP METHOD 5030 METHOD DETECTION LIMITS: 5 ppb SOIL, 3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 09-15-95-19 WATER SAMPLE

Test Results ug/Kg, ug/L (ppb) < 2 µg/L Benzene

WS #1

9.8 µg/L Toluene

Date Analyzed: 22 SEPT 1995 · 5.1 µg/L Ethylbenzene

41.4 µg/L Xylenes, Total ug/L Naphthalene

UTILITY TESTING LABORATORY

D.M: -

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North. Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)

METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 09-15-95-20

WATER SAMPLE

WS.#2

Date Analyzed: 23 SEPT 1995

Test Results mg/Kg; mg/L (ppm)

11.0 mg/L Gasoline < 0.5 mg/L Diesel 11.0 mg/L TPH

RTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, 3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 09-15-95-20

WATER SAMPLE

WS #2

Date Analyzed: 22 SEPT 1995

Test Results ug/Kg, ug/L (ppb)

420 μg/L Benzene
 391 μg/L Toluene
 150 μg/L Ethylbenzene
 1,570 μg/L Xylenes, Total
 301 μg/L Naphthalene

UTILITY TESTING LABORATORY

D.M. Thorsen

UTILITY TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH Testing - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 09-15-95-21

SOIL SAMPLE

SS#3 - 1

Date Analyzed: 23 SEPT 1995

Test Results mg/Kg, mg/L (ppm)

< 10 mg/Kg Gasoline

< 10 mg/Kg Diesel

< 10 mg/Kg TPH

UTILITY TESTING LABORATORY

D. M. Thorsen

D. M. 7h

LITY TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North-Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: Uniform Soil Classification

ASTM Method D2488-90 - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

Following are the test results on your subject samples;

Test No. 09-15-95-22

Color of Sample: **BROWN** Toughness:

N/A **Plasticity**i NON-PLASTIC Description of Sample: SILTY SAND WITH GRAVEL

Composition of Sample by Sieve Analysis: COARSE GRAVEL < 76.0 mm - 10% FINE GRAVEL < 19.0 mm - 10% < 4.0 mm - 20% COARSE SAND < 2.0 mm - 15% MEDIUM SAND < 0.425mm - 30% FINE SAND **FINES** < 0.075mm - 15%

* ND INDICATES NOT DETECTED

UTILITY TESTING LABORATORY

D. M. Thorsen

D. M. Thorsen

Dry Strength: LOW Reaction with 1:1 STRONG Classification: (SM)

UTILITY TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

September 29, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: Uniform Soll Classification

ASTM Method D2488-90 - Proj. - Wheelwright LMB #1200443

Sample Collected: 15 Sept 1995

Sample Received: 15 Sept 1995

Following are the test results on your subject samples;

Test No. 09-15-95-23

Color of Samples
BROWN
Toughness:
N/A
Plasticity:
NON-PLASTIC
Description of Samples

POORLY GRADED SAND WITH GRAVEL

Composition of Sample by Sieve Analysis:

COARSE GRAVEL < 76.0 mm - ND FINE GRAVEL < 19.0 mm - 20% COARSE SAND < 4.0 mm - 15% MEDIUM SAND < 2.0 mm - 40% FINE SAND < 0.425mm - 25% FINES < 0.075mm - ND

ND INDICATES NOT DETECTED

UTILITY TESTING LABORATORY

D. M. Thorsen

D. M. Thorsen

Customer I.D. USC#2

Dry Strength: LOW Reaction with 1:1 HCl STRONG Classification: (SP)

Utility Testing Laboratory

CHAIN OF CUSTODY

	· · · · · · · · · · · · · · · · · · ·	875 South Chestnut	treet Salt La	ke City	, Utah	84104	· Pho	xc: 501	-973-8	30 S	FAX: 8	301- 9 73	1-8333			·
Project Number:		Project Name:		Analy				ysis	ysis			Report To (print):				
fac In# 1	1200443	Joheelweight Lu	imber							-		K.	Nec	1 Malan		
O Number		Sampler's Signature:		1,09	Q	`≾			· I			No.				
•		*Med Ma	len-	8015	EPA 808	BTEXN	-	1				. of				
Date Sampled	Sample Time	Sample Identific	ation	100 2	W 60	50						cont.	Matrix	REMA	ARKS	
10-4-95	4:59	55#1		1	1	V						1		7' deoth	NWS	ide
10-4.95	5:01	SS #2		11/	11	V						ī		7' deoth		
10-9-13	8-14				-						•			- U. F.	-U./	
				 	ļ -			•			•					
		· ·		 -	 				——- <u>-</u>	-	-		}			
				 	-			-		<u> </u>		 				
				 		-		· · ·			-	 				
		· · · · · · · · · · · · · · · · · · ·		 -							-		-			
` 		· ·			 	<u> </u>				<u> </u>	<u> </u>	 				 -
				<u> </u>	-						<u> </u>	 	-	<u> </u>	 -	
·	·	 		 	ļ				<u> </u>	<u>. </u>		}	 			<u> </u>
		· · · · · · · · · · · · · · · · · · ·	· . ·	<u> </u>				·					<u> -</u>		<i>.</i> :	
					1					Ŀ					·	
						_ ·	·									• -
•													1			- :
Adinquished (sigi	alure):	Date/Time:	Received (si	ignature	e) .			SB	ID RESI	ULTS T	O (Con	bauk'y	iame)	CONDITION	OF SAMPI	ES
RNUS	mil	11-4-95	16	, (1.7	1	. , .	1	أذك		1					
		Date/Time:	Received (s	7 <u>9</u>	11a	ean	<u></u>	Tothe	1 Q/	(11)	Con	57.	 -	Samples Chilled:	Z Yes	□ No
'elinquished (sign	iature).	Dec Tare.	necessed is	Agriatur —	5/1) io ase	auciu	∪n ∪ q_ ∵ į		,-		Seals Intact:	₩ Yes	D No
Sharn	plan_	10-5-95	faul	20	Con	con		R	: 10	Ed	\mathcal{M}	ala	n).		`. `	
Relinquished (sign	nature):	Date/Time:	Received (s	ignatur	e).			Addre		٠,٠				Samples Preserved	Yes	□ No
			1	•				1 10225 1700 100 1				ω.				
Reiinquished (signature): Date/Time: Received (sig		sianatur				Ogden, Utah 84				2489	1409	Remarks:				
/Altidopsied/28			, accepted (Phone:					· 1. 1.				
			1			· ·				780	1:5	707	7	1		
COMMENTS:					٠.		•	Fax:	•		· · ·	;	: .			
								1 -				•		. 1 - 1		

UTILITY TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

October 17, 1995

Malan: Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright Lumber #1200443

Sample Collected: 04 Oct 1995

Sample Received: 05 Oct 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 10-05-95-02

SOIL SAMPLE

SS#1

7' DEPTH NW SIDE

Date Analyzed: 10 OCT 1995 Test Results mg/Kg, mg/L (opm)

< 10 mg/Kg Gasoline < 10 mg/Kg Diesel

< 10 mg/Kg TPH

RTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 10-05-95-02

SOIL SAMPLE

SS#1

7' DEPTH NW SIDE

Date Analyzed: 13 OCT 1995

Test Results ug/Kg, ug/L (onh)

< 5 µg/Kg Benzene

< 5 µg/Kg Toluene

< 5 µg/Kg Ethylbenzene

< 15 µg/Kg Xylenes, Total

< 5 μg/Kg Naphthalene

UTILITY TESTING LABORATORY

D.M. Thorsen

D. M. Thorsen

UTILITY TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

October 17, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright Lumber #1200443

Sample Collected: 04 Oct 1995

Sample Received: 05 Oct 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 10-05-95-03

SOIL SAMPLE

SS#2

7' DEPTH NE SIDE

Test Results mg/Kg, mg/L (ppm) < 10 mg/Kg Gasoline

< 10 mg/Kg Gasonne < 10 mg/Kg Diesel

< 10 mg/Kg TPH

Date Analyzed: 10 OCT 1995

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, 3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 10-05-95-03

SOIL SAMPLE

SS#2

Date Analyzed: 13 OCT 1995

Test Results ug/Kg, µg/L (ppb)

< 5 µg/Kg Benzene

< 5 µg/Kg Toluene

< 5 μg/Kg Ethylbenzene

< 15 µg/Kg Xylenes, Total

< 5 µg/Kg Naphthalene

UTILITY TESTING LABORATORY

J. m. Thorsen

D. M. Thorsen

•
~
-
-
_
_
-

Utility Testing Laboratory CHAIN OF CUSTODY

		875 South Chestnut	Street Sait L	ske City	. Utaĥ	84)04	Pho	one: 80°	1- 9 73-8	305	FAX:	601-973	3-8333	• •		ىنا ئىر
Project Number:		Project Name:			Analysis Report To (print):											
FACH 1200	443	WheelwRight	lumber	0							T	R	Nod	Malan		!
P.O. Number:		Sampler's Signature:	100	80/5 m.s.	2740	EXX					-	No.				
Date Sampled	Sample Time	Sample Identifi	cation	1 %		18				1	1.	cont.	Matrix		MARKS	
10-6-95	1-30 pm	5/5#3-A		V	V	V						2		raken und	er .	-
-									•		<u> </u>			•		
				- · · -					+	- ~			-			
	·													•		
				<u>. </u>	L						<u> </u>					
									į					-		
							·	1	Ĵ							
														_		·
						-			1				1			_
												-		·		
												-	٠.			
4		·	·		·				·			·				
									-					-		
	·												-			
Relinquished (sign	ature):	Date/Time:	Received (s	gnature	-)		•	SEN	ID RESU	UL T S T	О (Соп	Pany N	ame)	CONDITIO	N.OF SAME	<u> 155</u>
X De	Mein	10-6-95		1 4	Pa	lan		m	1ala	rn	Con	5f.		Samples Chilled:	. Dr. Yes	□ No
Relinquished (sign	rature):	Date/Time:	Received (s	(signature)			1	1	To the attention of: R. Ned Malar				Seals (mact:	Σ√ Yes	□ No	
Relinquished (sign	nature):	Date/Time:	Recoived (s	ed (signature)				Addre	ss: 55 E	17	100 P	00		Samples Preserve	d: ty Yes	□ %
Relinquished (signature): Date/Time: Received (signature)					<u> </u>	<u> </u>	ogden ut 84404.					4	Remarks:	· :		
Keimquisned (Sigi	ratore): ·	Date time.	Keceived (s	Ruarnie	-)			Phase					1			
• • • • • • • • • • • • • • • • • • • •		<u> </u>	<u>· · _ · · · </u>	•			<u>.</u>		782-5707			-	:			
COMMENTS:	•	••		•		•		Fax:	•			• •				į

UTILITY TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

October 19, 1995

Malan Construction 1055 East 1700 North Ogden, UT 84404

Attention: Mr. R. Ned Malan

Subject: TPH/BTEX Testing - Proj. - Wheelwright Lumber #1200443

Sample Collected: 06 Oct 1995

Sample Received: 09 Oct 1995

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 10-09-95-06

SOIL SAMPLE

S/S #3-A

Test Results mg/Kg, mg/L (ppm)

< 10 mg/Kg Gasoline < 10 mg/Kg Diesel

Date Analyzed: 11 OCT 1995

< 10 mg/Kg TPH

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 10-09-95-06 SOIL SAMPLE

S/S, #3-A

Date Analyzed: 14 OCT 1995

Test Results ug/Kg, ug/L (ppb)

< 5 µg/Kg Benzene

< 5 µg/Kg Toluene

< 5 µg/Kg Ethylbenzene

< 15 µg/Kg Xylenes, Total

< 5 µg/Kg Naphthalene

UTILITY TESTING LABORATORY

D.M. Thorsen

D. M. Thorsen

Utility lesting Laboratory

875 South Chestnut Street *** Salt Lake City, Utah 84104

Whee Curight Lumber 0459 Quiney AV-R 03 Lan Viah 84401 Ch	1								
DHES Quyney AV-C									
Odlan Vtah 84401 Ch	air) ()f	C	uş	to	d	y. J	Form
Company Name C.E. Buffers Court Rel 760 N. Havrisvilla Rel	F	K					T	T	Report To C.E. Butters Const.
760 Xl. Harry Suelle Rel	77	T						}	The Ni Harrisville Rd
October, Vtall 84404	1/8	17				١.			occur, Utal 34404
Purchase Order	10	6							Ray A. Carling
	2	13		}			.		Phone No 787- 2088 12787-7167
Sample Identification 11-23-72	18	(ľ	{			Remarks
	1	-	-	 	-	-	-	-	Normana
Somple# 1 2 ea. Water	(K	-	-	-			-	
Sample # 2, 2 ea, warfig	1	<u>×</u>	_			_	_		
	<u></u>	_	_	_					
		_		_	_	_	ļ		
Control of		_		_			_		
	-					_			
'					-	-			
		<u></u>		·+·	منسد <i>ا</i>		L		
Immediate Attention	,	٠		_		0.			V stantan
Attention		•			-Ru	121)			
Lana Warlung	11	Ç	1:3	ک رو	>12	- ,c	. .		0 700
Mollyquiahod by: (& ignature)	1.1.	Dal		/	, ,		Z.; Ime		Received by: (signature)
									Witnessed By: (signature)
(signature)		Dat				T	lme		Received by: (signature)
(organization)	,	<i>-</i>	. •		:	•	,,,,	,	hoomed by forductive
						,			Wilnessed By: (signature)
Relinguished by: (signative)		Dai			-		 l		Received by:
		Dal	K			11	ime	,	Hacelage ph.
									Wilnessed By: (signature)
• •	•								

TESTING LABORATOR

875 SO, CHESTNUT ST.

P. O. BOX 25005

SALT LAKE CITY, UTAH. 84125 PHONE: (801) 973-8305

December 9, 1992

C.E. Butters Construction

Attention: Mr. Ray A. Carling'

Subject: TPH/BTEX Testing - Wheelwright Lumber

Sample Collected: 23 November 92

Sample Received: 23 November 92

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. WATER SAMPLE 11-23-92-12

Test Results mg/Kg. mg/L (ppm) < 0.5 mg/L Gasoline #1 < 0.5 mg/L Diesel < 0.5 mg/L TPH

Date Analyzed: 03 DECEMBER 92

> BTEX SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) USING PURGE & TRAP METHOD 5030 METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. WATER SAMPLE 11-23-92-12 # 1

· Oate Analyzed: 07 DECEMBER 92 Test Results µg/Kg, µg/L (ppb)

< 2 µg/L Benzene

µg/L Toluene < 2

〈 2 µg/L Ethylbenzene

ug/L Xylenes, Total µg/L Naphthalene

UTILITY TESTING LABORATORY

DM Ynorses D. M. Thorsen

Original

UTILITY TESTING LABORATORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305

December 9, 1992

C.E. Butters Construction 760 North Harrisy, 11e Road Ogden, UT 84404

Attention: Mr. Ray A. Carling

Subject: TPH/BTEX Testing - Wheelwright Lumber

Sample Collected: 23 November 92

Sample Received: 23 November 92

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 11-23-92-13 WATER SAMPLE

Test Results mg/Kg. mg/L (ppm) 2.5 mg/L Gasoline

< 0.5 mg/L Diesel 2.5 mg/L TPH

Date Analyzed: 03 DECEMBER 92

BTEX SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) USING PURGE & TRAP METHOD 5030 METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 11-23-92-13 WATER SAMPLE

#2

Test Results ug/Kg, ug/L (ppb) < 2 µg/L Benzene

< 2 µg/L Toluene

Date Analyzed: 07 DECEMBER 92

ug/L Ethylbenzene

69.1 µs/L Xylenes, Total

< 2 µg/L Naphthalene</p>

UTILITY TESTING LABORATORY

D. M. Thorsen

SUB-SURFACE INVESTIGATION AND RISK BASED CORRECTIVE ACTION WHEELRIGHT LUMBER, FACILITY 1200443 2459 QUINCY AVENUE OGDEN, UTAH

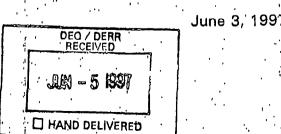
SCANNED

DERR -1997-005849

Prepared For Hal Wheelwright Wheelwright Lumber Co, 2459 Quincy Ave. Ogden, Utah

TiRTech, Inc. P.O. Box 7 Farmington, Utah, 84025 (801) 451-9714 FAX (801) 451-9715 e-mail anfanger@JUNO.com

Job 145



ABSTRACT

The Wheelwright Lumber Co. LUST site (facility 1200443), located at 2459 Quincy Avenue in Ogden, Utah, meets the criteria for a Tier I Risk Based Corrective Action closure. The site involves two separate tank removals on adjacent tanks. The first tank was removed in 1982 by Butters Construction. There was limited water contamination and two sumps were installed. The second removal in 1995 was conducted by Malin Construction. A limited amount of contaminated soils were removed and minor water contamination was noted.

The closure samples met RBCA standards for soils and the waters were so close that it was probable that the air-sunlight exposure during the tank removal would have reduced the levels to RBCA closure standards. At closure TPH were 1 ppm too high and naphthalene was 0.201 ppm too high. The down gradient sump was still in place so we determined to take a confirmation sample at this point to determine if the exposure to air and sunlight during the tank removal and the rapid movement of ground water through coarse sub-surface soils was sufficient to bring the levels to below RBCA standards.

The site was checked for surface indications of underground utility conduits within 15.5 meters (50 feet) of the excavation. No sensitive receptors, other than structures, were noted within the estimated zone of influence. The confirmation sample from the sump was non-detect in all categories so the site appears to be ready for closure.

TABLE OF CONTENTS

INTRODUCTION	1 -
SITE DESCRIPTION AND MAPS	1
ENVIRONMENTAL SENSITIVITY	6
NATURE OF THE RELEASE AND ABATEMENT MEASURES	6
METHODOLOGY	7
RESULTS	8
CONCLUSIONS AND RECOMMENDATIONS	8
REFERENCES AND APPENDICES	10

APPENDIX A: UDNR Map 110, Water Rights Points of Diversion

APPENDIX B: Certificates of Analysis, Ghain-of-Custody

INTRODUCTION

Wheelright Lumber had two underground storage tanks (9,000 gallons and 4,000 gallons) with a single dispenser. The 9,000 gallon tank was removed circa 1991 by C.E. Butters Construction Company. No soil contamination was discovered but there was a modicum of water contamination, probably the result of surface spills and over filling. C.E. Butters installed two 10 cm PVC sumps, one near each end of the excavation. No further action was reported.

In 1995 Malin Construction removed the remaining 4,000 gallon tank and dispenser. Modest soil contamination was noted and some soils were over excavated under the direction of the Weber-Morgan County Environmental Health Department. Very low levels of contamination were noted in the ground water.

TRTech, Inc. was called in to perform a closure sampling on the down gradient sump and prepare an Abatement and Site Check Report.

SITE DESCRIPTION

Wheelwright Lumber Co., (Facility 1200443, LUST I.D. EHBM & EJDV), Global Satellite (GPS) position 41°13'18" north, 111°57'19" west, has been on the corner of 25th South and Quincy Avenue since 1908. The facility took on its current configuration in 1978. The facility consists of three structures; a masonry office, sales and warehouse building (with a partial basement); a yard office made of wood and a masonry door shop. The surface topography slopes down gently westward, toward Washington Blvd.

The property is bounded on the east by Quincy Avenue; east across Quincy is The Ogden Clinic and residences; to the south across 25th Street is an auto repair shop (LUST site); to the west are commercial offices currently occupied by a collection service and to the north are the IGA Grocery Store and Pay Less Drugs. Surface observations suggest that no utility conduits bisect the excava-

tion and none appear to be near enough to be affected by the release.

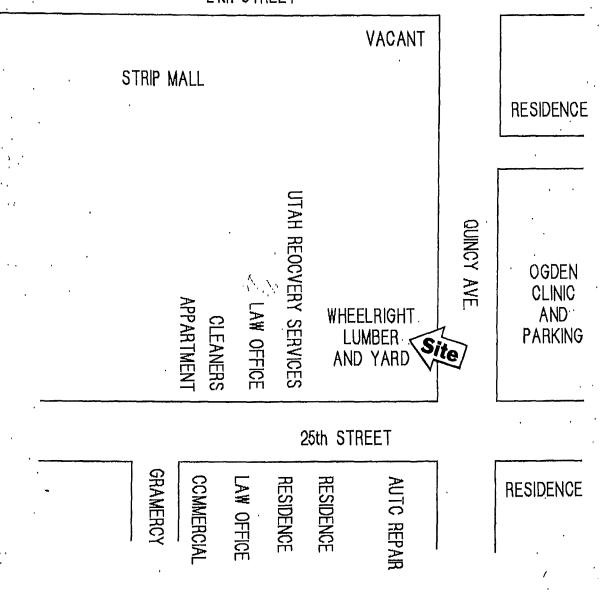
The neighborhood is located in the urbanized grass sagebrush ecosystem of the Salt Lake Valley, a deep, sediment-filled structural basin flanked by two uplifted range blocks; the Wasatch Range to the east, and the Oquirrh Mountains to the west. The surfical geology has been mapped as post Bonneville Lake Cycle lacustrian, marsh and alluvial deposits (Holocene to uppermost Pleistocene) consisting of silt, clay and minor sand (Personius and Scott, 1992). These alluvial deposits postdate the regressive phase of the Bonneville Lake Cycle and are underlain by laminated Lake Bonneville gravel, sand, silt and clay sediments. The site is in an area that has been listed as having a moderate earthquake liquefaction potential.

The subsurface hydrology consists of two aquifers: a shallow unconfined aquifer and a deeper, confined aquifer. According to UDNR Map 110, the depth to the unconfined aquifer varies somewhat based on climatic cycles and seasonal fluctuations but is expected to be on the order of 10 meters, actual measurements at the site of less than 3 meters suggest a localized perched water table not noted in UDNR Map 110. The deeper, confined aquifer, known as the principal aquifer, generally meets the standards for public drinking water supply. The regional direction of ground water flow is generally to the west toward the Great Salt Lake. The National Oceanic and Atmospheric Administration reports that the average yearly rainfall for the area is about 19 inches.

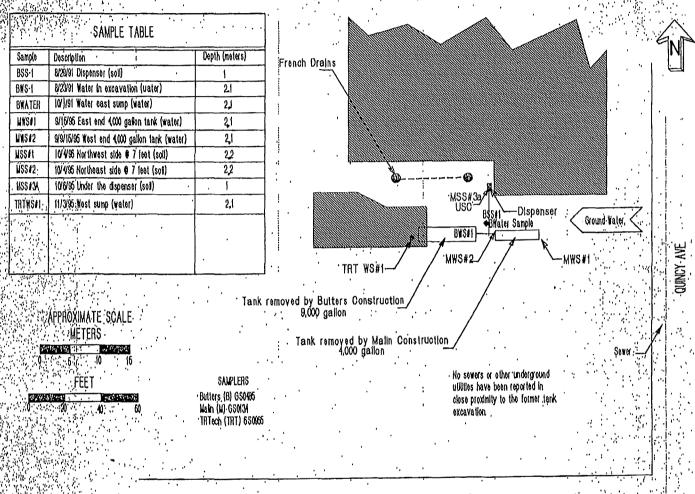


VICINITY MAP
WHEELWRIGHT LUMBER, FACILITY No. 1200443
2459 EAST QUINCY AVENUE
OGDEN, UTAH
Scale 1:24,000

24th STREET



NEIGHBORHOOD MAP 2459 QUINCY AVENUE OGDEN, UTAH



25th STREET

SITE PLAN WHEELRIGHT LUMBER 2459 QUINCY AVENUE OGDEN, UTAH

ENVIRONMENTAL SENSITIVITY LEVEL/REGULATORY CRITERIA

The levels of contamination at the site by this time should be non-detect in all categories eliminating any need for environmental sensitivity calculations. The site should meet Drinking Water Standards:

Recommended Water Quality (DRINKING) Criteria

Constituents (ppm)	μg/l,ppb	mg/l,ppm
Total Hydrocarbons		
Benzene	5.0	0.005
Toluene	1000.0	1.000
Ethylbenzene	700.0	0.700
Xylenes (total)	10000.0	10.000
Naphthalene	20.0	0.020
Benzo(a)pyrene	20.0	0.200
Lead	50.0	0.050
Oil and Grease	N/A	10±5

NATURE OF RELEASE AND ABATEMENT MEASURES

No significant soil contamination was noted during the first tank removal. A small amount of contaminated soils were removed during the second tank removal. The combination of coarse (high porosity) soils, a perched aquifer and high ground water recharge rates would tend to flush any contamination away from the site in a down gradient direction. Because the releases were very minor this flushing action removed all traces of contamination from the site. The recharge rate was so high that we were unable to draw the sump down more than 50 mm using a purge pump delivering over 15 liters per minute. The shallow aquifer in the Salt Lake Valley will normally yield between 0.25 and 7 liters per minute.

METHODOLOGY

Closure Samples. There were two separate closures at this site the first, conducted by C. E. Butters Construction took place circa November of 1992. A 9,000 gallon gasoline tank was removed and two 10 cm PVC sumps were installed. Samples from this event are prefixed with a "B" (e.g. BSS#1). The sampling is reported to have followed DERR sampling protocols in effect at the time.

The remaining 4,000 gallon gasoline tank and dispenser were removed by Malin Construction circa October 1995. Samples from this event are prefixed with a "M" (e.g. MSS#1). The sampling from this tank removal was reported to have followed DERR sampling protocols in effect at the time.

Closure Confirmation Sample, TRTech sampled the water in the down gradient sump installed by C. E. Butters Construction. The water level in the sump was measured, the sump was pumped for 5 minutes at a rate of 17 liters per minute (85 liters) and the sample was taken from the pump discharge. Prior to sampling the Homelite pump had been purged with 20-25 liters of soapy water (Alconox solution) and rinsed with three rinses of 20 liters each (culinary water). There was no significant draw down in the 10 cm (4") sump during the purge pumping. This suggests a very high transmissivity in the shallow aquifer. The water from the pump discharge was crystal clear, odor free and there was no sheen. It should be noted that the yard drains into a French Drain (gravel percolation sump) about 3 meters north of the sample sump. French drains require soils of high porosity and transmissivity. The sampling was conducted by a certified sampler following DERR Protocols as established in the Consultants Manual published by the DERR.

RESULTS

TABLE I ANALYTICAL TEST RESULTS

Date of Sample	Sample Location	Sample Medium	usc	Sample Depth meters	TPH mg/1 ppm	Benzene mg/1 ppb	Toluene mg/1 ppb	Ethyl Benzene mg/1	Total Xylene mg/1	Naphthalene mg/1
11/23/92	BWS#1-?	Hater	_	2.1	40.7	0.734	1.580	0.361	2.330	0.172
11/23/92	BMS#1	Mater	_	2.1	2.5	<2	<2	<2	69.1	<2
11/23/95	BHS#2	Hater		2.1	<.5	<2	<2	<2	<6	<21.6
9/15/95	MWS#1	Mater	_	2.1	<.5	2	9.8	5.1	41.4	5.0
9/15/95	MWS#2	Mater		2.1	11	<20	391	150	1570	301
11/03/95	TRTWS#1	Kater		2.1	<5	<2	<2	<2	<5	<2
1)tah RBC Drinking					10.0	0.300 0.005	7.000 1.000	4.0 0.7	73.0 10.0	0.100 0.020

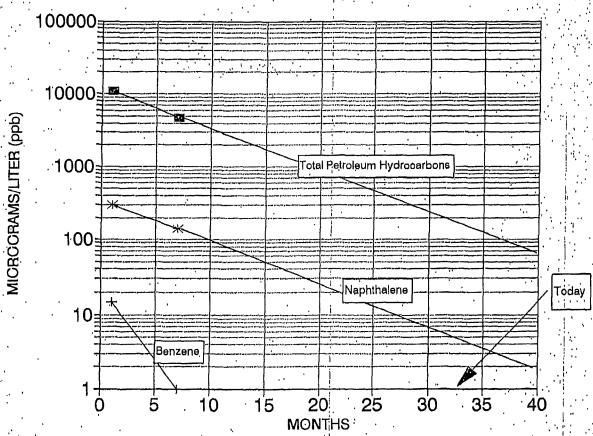
TABLE II SOIL ANALYTICAL DATA mg/kg (ppm)

Date of Sample	Sample Location	Sample Medium	usc	Sample Depth meters	TPH mg/1 ppm	Benzene mg/1 ppb	Toluene mg/l ppb	Ethyl Benzene mg/1	Total Xylene mg/l	Naphthalene mg/l
08/28/91	BSS#1-D	So17	SM	1.0	<10.0	<.005	<.005	<.005	<.015	<.005
9/15/95	MSS#3-1	So11	SH	1.0	<10.0		_		_	
10/04/95	MSS#1	Soil	SP	2.1	<10.0	<.005	<.005	<.005	<,015	<.005
10/04/95	HSS#2	Soil	SP	2.1	<10.0	<.005	<,005	<.005	<.015	<.005
10/06/95	HSS#3-a	Soil	SH	1.0	<10.0	<.005	<.005	<,005	<.015	<.005
Utah RBC	A Tier I				1500.0	0.900	61.000	23.0	235.0	10.000

CONCLUSIONS AND RECOMMENDATIONS

No contamination appears to be left on this site. Soils were excavated to non-detect levels under the supervision of the County Health Department and the limited contamination in the water has attenuated naturally to non-detect levels.

NATURAL ATTENUATION (half-life) WHEELRIGHT LUMBER, OGDEN



Estimated time to Drinking Water MCLs by Natural Attenuation Based on the assumption that $\mathbf{t}_{1/2}$ is a semi-logarithmic function

Component Depth to HOH		Soil Type	Half-life	Estimated value on 6/2/97		
TPH	< 2 meters	SP / SM	100 - 200 days	< 0.5 ppm		
Benzene	< 2 meters	SC / SM	30 - 180 days	< 0.002 раа		
Naphthalene	< 2 meters	SC / SM	180 - 300 days	< 0.020 ppm		

According to our understanding of the Risk Based standards this property should meet closure criteria adjusted for proximity to structures without any further action or testing. As always if you have any questions or comments please call (801) 451-9714 or FAX (801) 451-9715.

Muchan B. The

Theodore R. Thatcher

Geochemist

Your's Ver

TRT/trt

REFERENCES

Atlas, R. M., (Ed.), 1984, Petroleum Microbiology, New York: Macmillan.

Fiero, B., 1986, Geology of the Great Basin, Reno: University of Nevada Press.

Stecher, R G. (Ed.), Finkel, M. J., Siegmund, O. H. and Szafranski, B. M., 1960, The Merck Index, Rahway, N. J.: Merck & Co.

Corbitt, R. A., 1990, <u>Standard Handbook of Environmental Engineering</u>, New York: Mc Graw-Hill Publishing Co.

Brooks, B. T., 1950, Second Edition, <u>The Chemistry of the Non-benzoid Hydrocarbons</u>, New York: Reinhold Publishing

Gruse, W. A. and Stevens, D. R., 1942, Second Edition, <u>The Chemical Technology of Petroleum</u>, New York: McGraw-Hill Book Co.

Gesteinfarben, 1981, Ministerium Für Geologie, Berlin, DDR.

Clark, D.W., Appel, C.L., Lambert, RM., and Puryear, R.L., 1990, <u>Ground-water Resources and Simulated Effects of Withdrawals in the East Shore area of Great Salt Lake, Utah</u>, Utah Department of Natural Resources Technical Publication 93, 150p.



Michael O. Leavitt Governor Dianne R. Nielson, Ph.D. Executive Director Kent P. Gray Director





FILE COPY

DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

168 North 1950 West P.O. Box 144840 Salt Lake City, Utah 84114-4840 (801) 536-4100 (801) 359-8853 Fax (801) 536-4414 T.D.D. www.deq.state.ut.us Web

ERRL-0322-98

March 13, 1998

Mr. Hal Wheelwright Wheelwright Lumber Company 2459 Quincy Avenue Ogden, Utah 84401

SCANNED

DERR - 1998 - 004804

RE: Release Site EJDV & EHBM, Wheelwright Lumber Company

Located at 2459 Quincy Avenue, Ogden, Utah

Facility Identification No.1200443 LUST Site Closure

DOOT DITO Closus

Dear Mr. Wheelwright:

The case file for this facility has been reviewed by your state project manager, who has recommended that no further corrective action be taken at this time. This no further action applies only to the specific LUST release EJDV & EHBM. This recommendation is based upon the information contained in the file supplied by you or your consultant.

The information you have submitted indicates that any detectable petroleum contamination at the site is not a threat to human health or the environment as characterized using state underground storage tank rules. In the future, if other evidence indicates a spread of contamination from the Facility which may cause such a threat, further corrective action may be required.

If you have any questions regarding this matter, please contact your state project manager, Mark Crim at (801) 536-4247.

Sincerely.

Kent P. Gray, Executive Secretary (UST)

Utah Solid and Hazardous Waste Control Board

KPG/MEC/is

cc: J. Brett Lazar, M.D., M.P.H., Director, Weber/Morgan District Health Department . Ted Thatcher, TR Tech, Inc.

SCANNED

12000	ORT DERR -(991-6100/5
SITE No. Assigned 12.29-HBM	Date Received 8:39-91
ID No. 1200443	Date Assigned
Inspector Assignee Shelly	Date Confirmed
Received by D. Disk	Time
	11 800
Party Reporting NAME Enne Butting	Phone:
PRP NAME	Phone;
Location NAME 1.1220 NAME	Phone: THI Wheelingigh
STREET 7. Dunner	CITY: Oadan
2459	3
Type of Release:Piping;Tank;Over	rfill;Spill;Unknown
Release Date(s) (approx. or discovered)	
Substance: Gas;Other, Spec	
Estimated Amount: Method of Determination	ation Page 100
Impacts	
Fumes:HomeBusinessUtility	Outdoor Soils Watar
Product:GroundwaterSurface Water	
Damage:HealthEvacuationBiotic	•
Describe	Property
oesel the	
A Aller Williams	
Actions Taken:	
TANKS of lines los	is about
7	
TAN'R QUESTO TO	ouk + Jane
U	
AGENCIES NOTIFIED: HEALTH DIST; FIRE;	_EPA;OTHER
Staff Recommendations	
BSHW-7767U-10	

CLOSURE NOTICE

· / /	Facility ID # 1200443
TANK OWNER Name (cinee/wrig	ht Lumber Phone 637-0850
Address 3459 Quince Ave	
city cadem s	al wheelwright.
TANK OPERATOR/LOCATION Name, Title H	il wheelwright
Business Name Wheelwright Lu	mber
[] proprietorship, [] corporation, [partnership. Phone 622-0850
Address 2459 Quincy Ave	
City Ogden Cou	inty Weber Zip 84401
TANK HANDLER/REMOVER Name Eynie	Butters Cert. # THO 253
Address 760 N. Harrisville K	d. Ogden 84404 Phone 782.2088
SOIL/GROUNDWATER SAMPLER Name Ray	A. Carling Cert. #68:0485
Address 1287 E. 2500 X/, X/, O	gden Ut-84414 Phone 782-7167
TYPE OF CLOSURE () Te	
Dermanent or Change in Comite	C L. Lat A start looks
Date Closed 32999	emoved [] In-place
[] Fuel was emptied. Clear, Dry[] Sludge was re	moved, [] Tank was cleaned.
Tank was: [] Purged, [X] Inerted. Method Used:	Dry Ice
Tank was: [] Purged, [X] Inerted. Method Used: Location of Closure Records 760 No Har	risville Rd.
Substance to be stored for Change-In-Service	
Temporary	
Date of Closure	Fuel was emptied.
Residue depth remaining in tank or, 9	% by weight of total capacity of UST:
[] Corrosion protection equipment is operating.	[] Release detection equipment is operating.
3 months: [] Vent lines open Cap/Secure;	[] lines [] pumps [] manways
12 months: [] Permanently closed [] New	/Upgraded [] Extension
TANKS CLOSED	IITAH DEDARWA
Tank #	UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
Age of tank 1979	NAV 1 2 1001 743
Capacity 9000	1391 p
Subs. stored* Regular	RESPONSE AND REMENTAL
Date last used 1988	
*Indicate the specific substance stored in each tank clo	sed (regular unleaded diesel waste oil etc.)

DISPOSAL SITES USED:		• .
Tank: Atlas Steel	Date	3-9/Number
Product from Tank:	Date	Amount
Sludge: Kone	Date	Amount
Contaminated Soils: Acrested on Site	Date	Amount
• /	•	Amount
SITE ASSESSMENT (A copy of the lab analysis report in Groundwater samples: TPH: [X] 8015 modified;		
Other;		BETX: [] 8020
Results:		• •
Soil samples: TPH: [] 8015 modified;	Oil & Grease:	[] 413.1 [] 418.1
Other:	12	, BETX: 💢 8020
Results: Test Results affact	kied.	
Certified Laboratory:Address:	/875 S	Testing Laborator outh Chestnut St.
Samples were properly. [X] Collected [X] Labeled	d X Packaged	[X] Transported
Samples were in sight of the person in custody a	t all times or in a s	ecured locked place.
I certify under penalty of law that I am familiar with the is and complete and further, that the procedures described	nformation on this (herein were followed	form and that it is true, accurate d during tank closure.
Signature of UST Owner/Operator Likelle with a	Prolon Por	The Child When lines
Full name of Owner/Operator Hal W. Whee heure	ght Date	11-7.9/
		·
		Shw\ust\nH\cipHrm2 Revised 01/01/01

(

...

Wheelwright Lumber 2459 Quincy Ave. Ogden, Utah 84401 7 November 1991

State of Utah Project Manager, DERR

Re: Closure Notice Facility ID # 1200443

Oh August 23, 1991 the 9000 gallon tank was excavated and removed from our site at the above address. The tank was found to be clean and dry after it was opened up, as it hadn't been used since 1988. After it had been inerted with dry ice it was delivered to Atlas Steel Inc. for disposal.

Boil samples were taken at the dispenser location by Sitex Environmental Inc. was found clean, but the groundwater sample results indicated some contamination at 40.7 ppm TPH. The DERR was notified of the situation. At that time some over excavating was done and the soil was left to aireate for over a month.

It was established at that time that no more money could be spent on the site so another groundwater sample was taken by Ray A. Carling and sent to the lab. which showed considerable improvement to 7.3 ppm TPH.

We installed two test wells, one on each end of the excavation, for future testing and filled in the hole with the existing material and added clean fill to finish.

Future testing will be done until the site is clean.

Prepared by Ray A. Carling C. E. Butters Construction for Hal Wheelwright

Wheelwright Lymber



Hillside Business Center, Suite 212 2469 East 7000 South Sait Lake City, UT 84121 (801) 943-1222 FAX (801) 943-1288

September 17, 1991

Mr. Ernie Butters Butters Construction 760 North Harrisville Road Harrisville, Utah 84044

Subject: Soil and Groundwater Sampling at Wheelwright Lumber.

Dear Mr. Butters:

Please find enclosed the original copies of lab results for the soil samples taken at the Wheelwright Lumber job along with our invoice for these services. All sample numbers correspond to the sample numbers shown on the attached figure. It looks like the soil sample from under the pump is clean, however, the water sample from the tank excavation is fairly heavily contaminated.

If you have any questions concerning this matter, please do not hesitate to call.

Sincerely,

SITEX Environmental, Inc.

Äustin F. Legler EIT Civil Engineer

Enclosures

& QUINCY AUE. BUILDING - WS-1 (WATER) (8015/8020) 1 10K UST. SITE MAP WHEEL WRIGHT LUMBER OGDEN UTAH APPROVED BY SCALE: ASA DRAWN BY . TFC DATE: 9/17/9/ REVISED . ' DRAWING NUMBER

SITEX

CHAIN OF CUSTODY RECORD

Survey	Samplers; Signature										
DHEEL WRIGHT LUMBER											
	Station Location	Data	Tune	Sampl Wi Comp	Type fer Grab	Air.	Seg. No.	No. of Containers	Analysis Required		
5-1	EXCAVATION	8/23	1730				,	Z	BLEWD/LALH		
-1.	DOPPENCER	71	1750					2	BTEX P/TPF		
	:				,	٠.					
· ·			i		,			,			
	:		ş, i	,							
. '											
					.::						
						<u>. </u>					
						,					
		. ,					,		,		
		•									
				.•							
								,			
,											
Relinquishe	ed by: Signature	>	•	Receiv	and y	Signatu	Stry		Date/Time 8-23-91		
Relinquisbe	ed by: Signature) .	•	Receiv	ed by:	Sighalla			Date/Tune		
Relinquished by: Signature Dispatched by: Signature Due/Tima					Received by: Signature Date/Tune						
					teceived	(or lab	Date/Time				
•								· · · · ·			

UTILITY TESTING LABORATORY 875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305

August 28, 1991

Sitex Environmental Inc. Suite 212 2463 East 7000 South Salt Lake City, UT 84121

Attantion: Mr. Austin Legler

Subject: TPH/8TEX Testing - Sutters Wheelwright Lumber

Sample Collacted: 23 August 91

Sample Received: 23 August 91

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. SOIL SAMPLE SS-1

8-23-S1-11

DISPENSER

< 10 ppm Diesel

C 10 ppm TPH

Date Analyzed: 23 AUOUST 91

BTEX
SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. SOIL SAMPLE SS-1 Test Results ug/Kg. ug/L (ppb) 8-23-S1-11 DISPENSER $< 5 \mu g/Kg$ Benzene $< 5 \mu g/Kg$ Toluene Date Analyzed: $< 5 \mu g/Kg$ Ethylbenzene $< 15 \mu g/Kg$ Xylenes, Total $< 5 \mu g/Kg$ Naphthalene

UTILITY TESTING LABORATORY

DM Phorsen

D. M. Thorsen

UTILITY TESTINO LABORATORY 875 SO, CHESTNUT ST.

P. 0. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305

August 28, 1991

Sitex Environmental Inc. Suite 212 2469 East 7000 South Salt Lake City, UT 84121

Attention: Mr. Austin Legler

Subject: TPH/BTEX Testing - Butters Wheelwright Lumber

Sample Collected: 23 August 91

Sample Received: 23 August 91

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 8-23-91-10 WATER SAMPLE W8-1

EXCAVATION

Test Results
40.7 ppm Gasoline
< 0.5 ppm Diesel
40.7 ppm TPH

Date Analyzed: 23 AUGUST 91

STEX
SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 8-23-91-10 WATER SAMPLE

Test Results ua/Kq. uq/L (oob)

Date Analyzed: 26 AUGUST 91 1,580 µg/L Toluene 361 µg/L Ethylbenzene

2,330 µg/L Xylenes, Total 172 µg/L Naphthalene

UTILITY TESTING LABORATORY

O. M. Thorsen

cala

Utility lesting Laboratory

875 South Chestnut Street **
Salt Lake City, Utah 84104

Ch	nain	۱ (of	Cı	us	to	dy	, I	Form
Company Name C.E. Bullers Crest-	5015							,	Nay 11. Corching 1987 E. 2000 M. N. Corclan, Of. 84414
Furchise Order					,				N. Cordon, Ot. 84414 Phone No 7827167 - 782.2033
Sample Identification	7							'	Remarks
Weelivight Lumber 10-1-91	3	-			-			_	water Sample
			-	-		_	-	-	The state of the s
4 - 1 1 1 1 1 1 1 1 1 1						-			
		-			_				
	_ -	<u> </u> -					-		
lınmediate Attention					. Ru	ısh	L	1	Slandnin
Rellhquistied by: (& ignature)		fa: 1.31 . Date				多: T	က lmi	φ <u>β</u>	neceived by: (signature)
	٠.								Witnessed Dy: (s.i.gnature)
(signature)		Date			_	Time			Received by: [s.ignature]
	• •								Witnessed By: (s.ignature)
Relinquished by: (&/gnn/tu/re)		Date			-	Time			Received by:
									Witnessed By: (signature)

UTILITY TESTING LABOR TORY

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305

October 16, 1991

Ray A. Carling 1287 East 2500 North North Ogden, UT 84414

Attention: Mr. Ray Carling

Subject: Total Petroleum Hydrocarbon Testing - C.E.

Butters, Wheelwright Lumber

Sample Collected: 01 October 91

Sample Received: 01 October 91

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 10-01-91-09

WATER SAMPLE WHEELWRIGHT LUMBER Test Results
7.3 ppm Gasoline
< 0.5 ppm Diesel
7.3 ppm TPH

Date Analyzed: 02 OCTOBER 91

UTILITY TESTING LABORATORY

D. M. Thorsen

ORIGINAL

TILITY TESTING LABOR

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305

December 9, 1992

Attention: Mr. Ray A. Carling?

, Subject: TPH/BTEX Testing - Wheelwright Lumber

Sample Collected: 23 November 92

Sample Received: 23 November 92

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. WATER SAMPLE 11-23-92-12 #1

Date Analyzed: 03 DECEMBER 92 Test Results mg/Kg. mg/L (ppm)

< 0.5 mg/L Gasoline < 0.5 mg/L Diesel

< 0.5 mg/L TPH

BTEX
SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. WATER SAMPLE 11-23-92-12 #1

/ Date Analyzed: 07 DECEMBER 92 Test Results ug/Kg. ug/L (ppb)

< 2 µg/L Benzene</p>

< 2 pg/L Toluene

< 2 µg/L Ethylbenzene</p>

6 µg/L Xylenes, Total

< 2 pg/L Naphthalene</p>

UTILITY TESTING LABORATORY

D. M. Thorsen

ORIGINAL

TESTING LABOR

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH: 84125 PHONE: (801) 973-8305

December 9, 1992

C.E. Butters Construction www.a760. North Harrisyille Boad ... "Sale Ogden | UT 84404 with the remaining the rest of parameters of

Attention: Mr. Ray A. Carling

Subject: TPH/BTEX Testing - Wheelwright Lumber

Sample Collected: 23 November 92

Sample Received: 23 November 92.

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL (MODIFIED CALIFORNIA METHOD 8015) METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. WATER SAMPLE 11-23-92-13 #2

Date Analyzed: 03 DECEMBER 92 Test Results mg/Kg. mg/L (ppm) 2.5 mg/L Gasoline

< 0.5 mg/L Diesel 2.5 mg/L TPH

BTEX SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER) USING PURGE & TRAP METHOD 5030 METHOD DETECTION LIMITS: 5 ppb SOIL, .3 ppb WATER PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

<u>Test No.</u> WATER SAMPLE 11-23-92-13

Date Analyzed: 07 DECEMBER 92 Test Results ug/Kg. ug/L (ppb)

2 µg/L Benzene
 4 2 µg/L Toluene

< 2 µg/L Ethylbenzene</p>

69.1 µg/L Xylenes, Total < 2 µg/L Naphthalene</p>

UTILITY TESTING LABORATORY

D. M. Thorsen

Utility lesting Laboratory

875 South Chestnut Street ***
Salt Lake City, Utah 84104

wheelwright Lumber Octor Reinight AV-2	·								
DIEG DUNE AV-R									
Octom Viah 844101 Cha	ain	0	f	Cı	18	to	dy	, F	Form
Company Name's Department of the Company	5	1016		1	1	.,	1	1	
C.E. Buffers Couff Dd	3			ŀ					OC Hutlers Courts
760 Xl. Havrisville Rd Ogean, Vtali 84404	I	1							760 Ni Harrisville Rd
Purchase Order	∞	F				}			ogclere, Utal 84404
	27.6	600							Ray A. Carling
1	me	ğ		. :					Phone No 782-2088 0-782-7167
Sample Identification 11-23-92	57								Remarks
Sample # 1 2 ea. Water	X	X				-		-	
Sample # 2, 2 say water	X	X	_	-					
				""					•
			_	-	_		-	[,
				-	-				
C characteristics		-	-	\ <u>'</u> -	-	-		-	
	-	-	-	-	-	\-		-	
	-	<u> - </u>	_	-		-	-	-	
	L		L	L	_	L	_		
Immediate Attention					Ri	ush			Standau
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,				4011			- Alexandria
Lay allactura	17		12	٧.٠	12	<u>)</u>	7. (. /	
Religiquished by: (signature)		Dal			, ₋	·:	J.i. Im	<u> </u>	Received by: (signification)
()					•	·	•		y the same and to adjunction of
									Witnessed By: (signature)
A managed plant among a many array and a many and a managed plant and a second plant a second plant a second					10- -				***************************************
(signature)	•	Dat	(0			1	lm	0	Received by: (signature)
									Wilnessed By: (signature)
•		•							, and
Relinguished by: (s.(gnature)		Dat	le			Ţ	im	0	Received by:
							٠		
<u> </u>	•			,					Wilnessed By: (signature)

	Coince 4 Ave. The second of th
Building	
VGNT	>0 SS-1, 2:5
Pumps	
	10k Test well togations
	UST WE WE WAS A STATE OF THE ST
Notice of the second se	EXCAUATION
	SITE MIND
	WHEEL WRIGHT LUMBER. 2459 QUINCY AVE. OGDEN UTAH
NAIR.	LE: LA APPROVED BY: DRAWN BY TTL
DAT	rei, 9/17/3/
	ORAWING NUMBER

Wheelwright Lumber 2459 Quincy Ave Ogden, Utah 84401 15 April 1993

State Of Utah Shelly Quick Project Manager; DERR

Re: Status Report Facility ID # 1200443

Dear Stelly Gulck

SCANNED

DERR-1993-010426

I talked to you on the phone on 14 Jan 1993 about the test results at Wheelwright Lumber, which are included. Hal Wheelwright says he still hasn't money to do more testing and asked if he can wait till spring of 94 to do soil samples around the parimeter at water level and additional water samples as you requested. Last time a year made a lot of difference in his test results.

Also you asked how much soil was removed and then put back in the excavation. We estimate there was about 35 yards, with the addition of about 35 yards of new dirt to fill the excavation.

Thank you for your help and consideration.

Prepared by Ray A. Carling C. E. Butters Construction for Hal Wheelwright Wheelwright Lumber

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

APR 1 6- 1993 Rai

DIV. OF ENVIRONMENTAL RESPONSE AND REMEDIATION

CLOSE-OUT CHECKLIST

March 18, 1997 (date revised)

This checklist is a guideline for identifying and asserting exposure pathways and receptors of petroleum contemination from LUST sites. This checklist is intended to expecifie the LUST case file close-out process by providing suppositing documentation that remaining contemination is not expected to adversely impact those receptors. RCLs, MCLs, or The J. Screening Levels (ASTM, 1994) have been exceeded and itles-pecific data have unbecausefully collected (Tie. 2 or 3 Evaluation). The remaining contemination at this title does not appear to present current or future risks to human and conformance the balls, and site-specific cleanup levels have been set using ASTM, 1994 or other residual.

commination at the modes not appear to pretent current or forms first to make an adversariant name of the particular exposure effecting spelles to supporting and documenting low or no risk. Attach a site map showing analytical results. This recommendation for case file close-oul is in accordance with all sections of 40 CPR Subposts E and F, and Usah Administrative Cook FA(1). LUS ID EJOV Project Manager (pilot) MOTA Cri
Putilliy Nama and Address — Name or 1gut toutor r
Closcopi Per Group Review and Concurrence (data).
Section Manager Concurrence (dignature, data)
Blanch Manager Concurrence (signature, data) 2459 Quincy ALO Capad LUT 1.0 ABATEMENT B, ENVIRONMENTAL and OTHER IMPACTS A. PRODUCT INFORMATION C, SOURCE ABATEMENT AMOUNT IF PRODUCT RELEASED RELEASE __Soll___ __Oroundwater __Vapora __Rea product RATE IF KNOWN KNOWN Tank
Piping
Dispenser
Pree Product (amount) Guoline __Diesel __let Poel __Weste oil __New Oil __Unknown Contaminated soil (amount) Successful Emergency Measures Taken; rtock, other) Vapor excusion
Lyapor excusion
Lyapor excusion
(cewer, water, other)
Alternative drinking water supplied
Residents/workers relocated
Other, explain; Other: 2.0 SITE CHARACTERIZATION A. ENVIRONMENTAL SENSITIVITY B. EXPOSURE PATHWAYS AND RECEPTORS Specify lavel of environmental sensitivity and point score (See Table I worksheet Buildings, utility lines, wells, and surface water have been evaluated and determined | Lavel 1 | 40-65 | Lavel 1 | 40-65 | Lavel 1 | 40-65 to be not set for exposure pathways or receptors. Risk-B seed Cleanup Levels
(RBCLs) have been re-calculated and are expected to be protective of the exposure
pathways and receptors identified below: B/T/E/X/N B/T/E/X/N _Not applicable _Other method, describe belov Not Likely RECL Observed Soli: Indoor air inhalation Leaching to GW Ingestion Skin contact D/T/E/X/N B/T/P/X/N Not Likely RBCL Observed Oroundwater: Indoor air inhalarion Ingestion Skin contact Current Land Use: Commercial Residential Industrial ____Agriculturul

	3.0 SUBSURFACE	INVESTIGATION	· •
A. EXTENT AND DEGREE OF CONTA	AMINATION	,	B. Sample collection
Extent and degree of contamination are sufficiently of Extent and degree of contamination are projected or		Confirmation samples taken	n after source removal or corrective action: OroundwaterVaporsSurface Water
Model Used (results and strimitary attached);: VadosAttenuation on-site,Attenuation to safeAttenuation to safe levels prior to reaching utilities/v	e levels off-site.	Confitmation samplesAsymptotic concentrat	not necessary. tions observed.
C. REA	AAINING CONTAMINATI	ON (provide if not separately	attached)
Dissolved Phase: Plume Dimensions (L X W): 60 Concentrations at source (TPH/B/T/E/X/N mg/L):	18H /301 N	Adsorbed Phase: Dimensi Concentrations at source (T	ons: (L X W X Thickness; yd¹)
Concentrations at leading edge (TPH/B/T/E/X/N me/L):	well - 2 Events	Concentrations at leading of	080 (11100) 1/27411 11000).
	3 yrs apart		
Sporces of contamination are removed. 5 yd' contaminated soil remain in place, 10' separates contaminated soil from GW. 10' separates contamination from bldgs/utilities. Buildings or utilities do not overlie contamination. Chirrent exposure pathways and receptors appear minimal, limited or non-existent including buildings, utilities, wells, surface water; ingestion, inhalation, leaching. Contaminated soil near or in contact with groundwater is not leaching concentrations that will impact receptors. Weathered product evidence: Only APH remains in place. Small periodic overfills and spills. Old releases.	Infiltration of recharge water concentrations based on: Recharge is very Recharge water in adsorbed contain. Natural attenuation and transare reducing contaminant of exposure: Adsorption/Desorption Advection/Dispersion Chemical mobility Ilydrocarbons of higher not present in groundw. Hydrocarbons of higher not present in soil or in the compound or known to exist.	ot acmally/likely to reach nination. Insport and fate mechanisms oncentrations and risk of method in the properties of	Pinther cleanup does not appear to be achievable based on: Technological feasibilityCost-Effectiveness (excessive cost; benefit) Cutrent land use restrictions not likely based on:No receptors are presentBeceptors not likely to be exposed to unsafe concentrationsOther: Puture land use restrictions not likely based on:Historical land use well-established and not likely to change or become more sensitiveRemaining contamination not likely to impact future bidgs or utilitiesOther:
ADDITIONAL COMMENTS: This lumbs Seporate occasions, 1992 fil	er yard facility 985. For each	L closure aven	t, soil contamination

ADDITIONAL COMMENTS: This lumber yard facility had two USTS remained on two separate occasions, 1992 & 1995. For each closure event, soil contamination was never detected but ground water (600) did show levels of banzane as highing as .734 pp. (1992) TPH askigh as uo.7 (1992) and caphthalane up to .301 pp. in the 1995 sampling event. Although the USTS were remained separately, they were located in the same area of the site. A ground water sampling point was got in place down gradient of the UST remainds in 1992 & 1995. Each was sampled two times, once after each of the UST remainds in 1992 & 1995. Each of those gul sampling events showed now detect for BTEXH/TEH concerns.

The air contamination reflected in the two UST closure quents may have been altributed to the UST remaind process itself. No soil contamination is altributed to the UST remaind process itself. No soil contamination is afteriored, on site receptors are not threatened and a down gradient santry used has not been Impacted. Closure is recommended.

Table 1

Site-Specific Factors (* Identify and explain the extenuating circumstances here) Distance from Contamination to Groundwater (feet) >100 100 to 75 75 to 50 50 to 25 25 to 10 <10, or recharge area Native Soil Type: Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM) * Annual Precipitation (inches) 10 10 to 20 >20	Ranking Score 0 4 8 12 16 20 0 10 20 0 5 10	Enter Site Data	Unknown (specify DERR research)	Pinal Ranking Score
Distance from Contamination to Groundwater (feet) >100 100 to 75 75 to 50 50 to 25 25 to 10 <10, or recharge area Native Soil Type: Low permeability (PT,OH,CH,NIH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM1) Annual Precipitation (inches) 10 10 to 20	4 8 12 16 20 0 10 20	N121		20
>100 100 to 75 75 to 50 50 to 25 25 to 10 <10, or recharge area Native Soil Type: Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM1) Annual Precipitation (inches) 10 10 to 20	4 8 12 16 20 0 10 20			20
>100 100 to 75 75 to 50 50 to 25 25 to 10 <10, or recharge area Native Soil Type: Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM1) Annual Precipitation (inches) 10 10 to 20	4 8 12 16 20 0 10 20			20
75 to 50 50 to 25 25 to 10 <10, or recharge area Native Soil Type: Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM) Annual Precipitation (inches) 10 10 to 20	8 12 16 20 0 10 20			20
50 to 25 25 to 10 <10, or recharge area Native Soil Type: Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM) Annual Precipitation (inches) 10 10 to 20	0 10 20 0 5			20
25 to 10 <10, or recharge area Native Soil Type: Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM) Annual Precipitation (inches) 10 10 to 20	0 10 20 0 5			20
Native Soil Type: Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM1) * Annual Precipitation (inches) 10 10 to 20	0 10 20			20
Native Soil Type: Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM1) Annual Precipitation (inches) 10 10 to 20	0 10 20 0 5	215		
Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM) Annual Precipitation (inches) 10 10 to 20	10 20 0 5	215		
Low permeability (PT,OH,CH,MH,OL,CL,ML) Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM) Annual Precipitation (inches) 10 10 to 20	10 20 0 5	215		
Mod. permeability (SC and SM) High permeability (GM, GP, GW,GC,SW,SP,SM) Annual Precipitation (inches) 10 10 to 20	10 20 0 5	215		
High permeability (GM, GP, GW,GC,SW,SP,SM) Annual Precipitation (inches) 10 10 to 20	0 5	215		
Annual Precipitation (inches) 10 10 to 20	5	215		5
10 10 to 20	5	215		5
10 10 to 20	5	215		5
	11	115	L	
>20	10			<u> </u>
	<u> </u>			
•	"	1	,	T
Distance to Nearest Municipal Production Well (feet)	N			
>5280	0	1	·	1
1320 to 5280	8	1300		1
500 to 1320	10	1,55		/0
<\$00	15	<u> </u>		<u></u>
·	<u> </u>	1200 600		T
Distance to Other Wells (feet)	1	1250'6		1
>1320 300 to 1320	0 5	1100		5
⊲300	10			1
			,	
Distance to Surface Water (feet)				
>1000	0			10
300 to 100	2	7/000		
<300	1 5		L	<u> </u>
				1
Potentially Affected Populations within 3-mile Radius <100 ,				
100 to 3000	10	>3K		20
>3000	20			<u> </u>
*				· · · · · · · · · · · · · · · · · · ·
Presecce of Onsite or Adjacent Utility Conduits	}	}	i	
Not Present	0			٠٠ ســـ ١
Unknown	14	Prosent		15
Present	15			1
•				
Final Score (>65=Level 1, 40-6S=Level II, <40=Level III)				91

level I

RESULTS

TABLE I ANALYTICAL TEST RESULTS

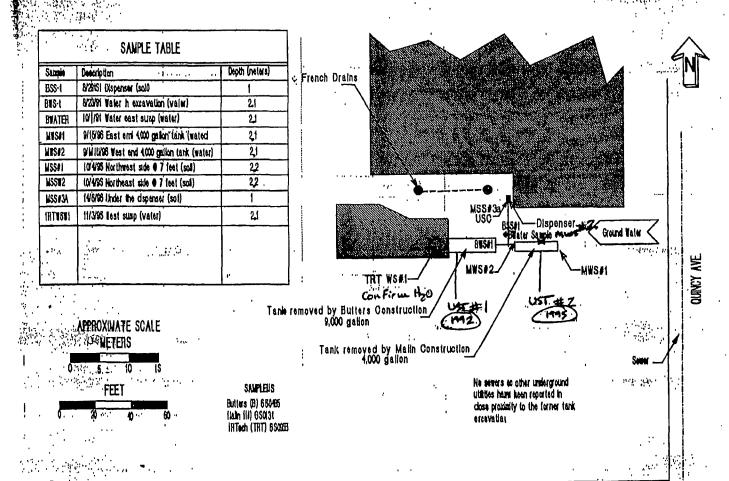
•	Date of Sample	Sample Location	Sample Redium	USC	Semple Depth meters	TPH mg/1 ppn	Benzene mg/l ppb	To luene mg/l spb	Ethyl Benzene mg/1	Total Xylene mg/l	Maphthalene mg/l	
UST#1 {	11/23/92	BHS#1-?	Hater		2.1	40.7	0.734	1.580	0.361	2.330	0.172	
	11/23/92	BUS#1	Hater	_	2.1	2.5	<2	· 42	4 2	69.1	. 42	
Confirmation -	11/23/95	BHS#2	Mater	_	2.1	< *5	. 42	⋖2`	<2 .	<6	∴<21.6	
U5T#Z	9/15/95	H-IS#1	Hater	_	↓2 . 1	<.5	4 2	9.8	5.1	41-4	.005/5_	щ
cilosura 1945	9/15/95	HHS#2	Hater	1	2.1	11	~20	391	180	1570	301	
Confirm HZU	11/03/95	TRINS#1	Hater	-	2.1	, < 5	~2	-22	. 42	< 5	<2 .	
Te Tack.	Utah RBC Drinking	A Tier I Hater				10.0	0.300 0.005	7.000 1.000	4.0 0.7	73.0 10.0	0.100 0.020	

TABLE II SOIL ANALYTICAL DATA ng/kg (ppm)

		Date of Sample	Sample Lacation	Sample Hedium	USC	Sample Depth unvters	TPH mg/1 ppm	Benzene mg/1 ppb	Toluene æg/l ppb	Ethyl Benzene mg/1	Total Xylene mg/1	Naphthalene
		08/28/91	BSS#1-D	Soil	SH	1.0	<10.0	<.005	<.005	<.005	<.015	<.005
UST CO5.10	Ī	9/15/95	NSS#3-1	Soi,1	SN	1.0	<10.0				_	— .
AN Soils		10/04/95	HSS#I	Soil	SP	2.1	<10.0	<.005	<.005	<005	<.015	<.005
Balu-110~1		10/04/95	NSS#2	Soil	SP	2.1	<10.0	<.005	<.005	<.005	<.015	<.005
Dalock		10/06/95	HSS#3-a	Soil	SM	1.0	<10.0	<.005	<-005	<. 005	<.015	: <.00S
		Utah RBC	A Tier I				1500.0	0.900	61000	23.0	235.0	10.000

CONCLUSIONS AND RECOMMENDATIONS

No contamination appears to be left on this site. Soils were excavated to non-detect levels under the supervision of the County Health Department and the limited contamination in the water has attenuated naturally to non-detect levels.



and allowed mirror to the fitting of

25th STREET

SITE PLAN WHEELRIGHT LUMBER 2459 QUINCY AVENUE OGDEN, UTAH

APPENDIX J ADSCO LUST FILE



Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Kent P. Gray
Director

State of theh

DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

168 North 1950 West P.O. Box 144840 Salt Lake City, Utah 84114-4840 (801) 536-4100 Voice (801) 359-8853 Fax (801) 536-4414 T.D.D.

FILE COPY

ERRL-0307-95

April 10, 1995

Mr. Alan Gould Adsco Services, Inc. 2527 Gramercy Avenue Ogden, Utah 84401

Re:

Release Site EHGV, Adsco Protective Services, 855 25th Street, Ogden, Utah

Facility Identification No. 1200147

Dear Mr. Gould:

The Utah Division of Environmental Response and Remediation (DERR) has reviewed the case file for the facility identified above. Your state project manager has recommended that no further action be taken at this time, based upon review of the information contained in the file. The DERR staff has not made an independent investigation of the site but has relied on the information supplied by you or your consultant.

The information indicates that the petroleum release at the facility no longer poses a threat to human health or the environment at this time. In the future, if other evidence indicates a spread of contamination from the Facility which may cause a threat to human health or the environment, the DERR may require further action.

Sincerely,

Kent P. Gray, Executive Secretary (UST)

Began Pulitaling

Utah Solid and Hazardous Waste Control Board

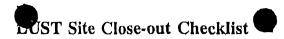
KPG/SBQ/jf

cc: Craig Heninger, M.S., Acting Director, Weber/Morgan District Health Department

SCANNED



DERR 1995-000804



or Manager Ty Name and Address Peer Group Review and Concurrence on Manager Concurrence (signature) th Manager Concurrence (signature) Live Secretaary (signature) k the applicable spaces provided and describe in the	utility 4-11-95	Comercian Ogdon 47.
.,7	1.0 RELEASE CHARACTERIZATION 40 CFR Subpan E	
A, SOURCE OF CONTAMINATION CUST System Contaminated Soil Free Product Impact is from offsite Other	B. PRODUCT RELEASE RELEASE RELEASE IF KNOWN Gasoline Diesel Waste oil New Oil Jet Fuel Other Unknown	C. TYPE OF RELEASE Describe how the source of contamination was discovered: UST system closure Spill/Overful Precision test failure (TTT, LTT) Other Property Assessment Site Assessment Tank(s): indicate size, date installed, date last used, which one(s) leaked. Piping (suction, pressure) Pump/Dispenser Unknown Other
D. INVESTIGATIVE METHODS Excavation Soil samples Water samples Test Pits Soil samples Water samples Soil Borings Soil samples Water samples GW Monitor Wells Geoprobe, Hydropunch, CPT Soil samples Water samples Water samples Soil Vapor Survey Other	E. ANALYTICAL METHODS Chemical analysis (fixed or mobile lab) Field Screening Methods: PID/Hnu PID/OVM FID/OVA Other Olfactory/Visual Immunoassay 8015 modified (TPH) for gas/diesel) 413.1 (oil & grease) 418.1 (TRPH) 602/8020 aromatic volatiles 624/8240 volatiles 625/8270 semi volatiles 7421 lead 610/8100 or 8310 PAHs 608 or 617/8080 PCBs Other method(s)	F. ENVIRONMENTAL IMPACTS

	2,0 SITE CHARACTERIZATION 40 CFR Subpan F	,		
A. ENVIRONMENTAL SENSITIVITY	B. SITE MAP	C. PRESENT ANALYTICAL DATA		
Specify level of environmental sensitivity and point score: Level 1 >65 Level 11 40-65 Lovel 111 <40 Not applicable Other method, describe	Site Map is attached, appropriately scaled and oriented map, maximum size 11 X 17 inches, showing the following on-site features at a minimum: • Structures, buildings, homes, businesses • Utilities • UST systems • Locations of samples collected, wells, borings, excavations, test pits, etc. • Extent of contamination before contamination before corrective action • Extent of contamination before contamination after corrective action • Other relevant features	Tabulated analytical data attached showing initial and final concentrations (Tables A and B for soil and groundwater may be used). Analytical data presented on site map. Concentrations before corrective action Concentrations after correct action		
	3.0 ABATEMENT and CORRECTIVE ACTION 40 CFR Subpart F	٠٠.		
A, TECHNOLOGY	B. OTHER MEASURES TAKEN	C. MAGNITUDE OF CONTAMINATION		
Corrective action technology used to remove/treat the source and contaminated media and/or product described in Summary. Amount and type of medium treated and/or removed described in Summary. Disposal location of contaminated media described in Summary.	Describe emergency abatement measures Vapor evacuation Utility line replacement Alternative drinking water supplied Residents or workers relocated Other	Confirmation samples taken: Soil Vapors Surface Water Explanation if none taken _Extent and degree of contamination were sufficiently defined. _Extent and degree of contamination were projected or inferred.		
4.0 CLEANUP L	EVELS FOR SOIL AND GROUNDWATER (or other: UAC R311-211, 40 CFR Subpart F	media as necessary)		
	CASE 1			
low risk of remaining contamination on human further environmental degradation is not expecte elements listed below. Volume of contaminated media Age of release (weathered product) In situ degradation is observed Attenuation is observed due to: Adsorption/desorption Biological degradation Dilution Evidence for all of the above Fluctuating groundwater levels has assisted in reducing contaminant Concentrations	canup to established cleanup levels was not achieved, howe and environmental health. Current and potential impacts to d. Rationale for the extenuating circumstances is provided a Contaminated soil in contact with groundwater is not leaching unsafe concentrations Transport and fate of contaminant(s) are estimated to represent a low risk based on: Chemical mobility Physical mobility Persistence Degradability	Source of contamination is removed Further cleanup does not appear to be achievable based on: Technological feasibility Cost-Effectiveness Current exposure pathways appear to be minimal, limited or non-existent Current land use is not likely to be restrictive Future land use is not likely to be restrictive		
CASE 2		CASE 3		
Cleanup to below established cleanup levels but detectable concentrations remain in place I document and date on which cleanup levels were	Reference the	below detection levels was achieved.		

SUMMARY

Provide a type- or hand-written detailed summary of the site history, source of contamination, and abatement and refrectal measures that were used to clean up the contamination. Provide rationale why conditions remaining at the site will not adversely impact water quality, environmental health, or other beneficial uses. Project Manager
The source of contamination has been
removed. The highest Devels of Contaminant
were expected to be smoontered at the
Jours area Rowers brinds andaling
and dispersion have continent thatural
attenuation to occur, Even though
no sample very explosted downgrached
De ter source area it is expected
that is the source area measures
non-Potest for BTEXNETPH that
there is no scarnificant health of
ofter between steen abundance
this site.
Project Manger (signature) Date 4-3-95 Date

It is recommended that the release case file for the above-referenced facility be closed out based on the information provided by the facility owner/operator, which is described in this checklist. This recommendation is based on the condition that if future evidence indicates contamination at or emanating from this site, additional investigation and/or remediation may be required.

Site Summary for Adsco Protective Services Facility I.D. 1200147 Lust I.D. EHGV

On August 5 1991, a 10,000 gallon gasoline and a 1000 gallon waste oil tank was permanently closed. Two soil samples were collected in the waste oil excavation and the results were well below recommended cleanup levels for a level one site sensitivity.

Two groundwater samples were collected in the gasoline excavation since groundwater was encountered in the excavation. 35 ppm TPH was analyzed in the sample, BTEX was not analyzed.

No work was conducted until August 1994. The responsible party hired a consultant to bore two holes near the excavation and analyze the groundwater. One boring was placed in the excavation and water was sampled. TPH & all BTEX constituents were below detectable levels. Several attempts were made to advance another boring, however, it was unsuccessful. Even though soil samples were not collected, the soil type is very permeable (gravelly sand) and the floor of the tank excavation was in or very near the groundwater table. It is expected that spill and overfill would have migrated directly to groundwater and has dispersed, diluted and degraded after each episode. There have never been reports of vapors in the home or businesses on or near the site. There have been no preferential pathways identified at the site that would allow contamination left in place at the site to migrate to a receptor. There does not appear to be any present or future threat to human health or the environment based on all information submitted to the DERR by the responsible party and his consultant.

I recommend that no further action be required at this site.

Oplicate

CLOSURE NOTICE

	CMTERED Facility ID # 10004/
TANK OWNER Name AL GOCILO	D12/12/91 9Ka Phone 782 - 1499
Address <u>855 F. 057H ST.</u>	
City <u>NEDEN</u> State	UT Zip 84401
TANK OPERATOR/LOCATION Name, Title 77500	: AL GOULD
Business Name ADSCO PROTECTIVE SA	ERVICE
[] proprietorship, [] corporation, [] part	nership. Phone
Address <u>855 E . 057H ST.</u>	
City OSDEN County	WEBER Zip 84401
TANK HANDLER Name R. NED MALAN	Cert. # 778 (X) 90
Address 648 N. ECCLES, OG. UT	84404 Phone $782-570$
SOIL/GROUNDWATER SAMPLER Name R. WED	
Address 648 N. ECCLES OG, UT 8	
TYPE OF CLOSURE Permanent [] Tempora	ary [] Change-In-Service
Permanent or Change-in-Service	
Date Closed 8/5/9) Remove	d [] In-place
Fuel was emptied. [] Sludge was removed	d. [] Tank was cleaned.
Tank was: [] Purged, [X] Inerted. Method Used:	RY ICE
Location of Closure Records R. NED MALAN	<u> </u>
Substance to be stored for Change-In-Service	
Temporary	
Date of Closure [] Fue	el was emptied.
Residue depth remaining in tank or, % by	weight of total capacity of UST:
[] Corrosion protection equipment is operating.	[] Release detection equipment is operating.
3 months: [] Vent lines open Cap/Secure: [] 1	lines [] pumps [] manways
12 months: [] Permanently closed [] New/Upg	
TANKS CLOSED	UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
Tank #	
Age of tank 30/85 30/85	DEC 0 2 1991 788
Capacity /0.000 /.000	DIV. OF ENVIRONMENTAL RESPONSE AND REMEDIATION
Subs, stored* GAS GAS	по немень зам
Date last used	
*Indicate the specific substance stored in each tank closed (regular, unleaded, diesel, waste oil, etc.)

DISPOSAL SITES USED:		/
Tank: ATCAS STEEL	Date _ <i>8/S/</i>	9/ Number
Product from Tank: REG. GAS	Date	Amount
		Amount
Contaminated Soils: NONE	Date	Amount
Contaminated Water: NONE	Date	Amount
SITE ASSESSMENT (A copy of the lab analysis		
Groundwater samples: TPH: [\$\square\$8015 modi	ified; Oil & Grease:	[] 413.1 [] 418.1
Other:		BETX: [] 8020
Results:		
Soil samples: TPH: [] 8015 modifi	fied; Oil & Grease:	[413.1 [] 418.1
Other:		BETX: [] 8020
Results:		
Certified Laboratory:	form must be attached to this Labeled [] Packaged	notice) Transported
I certify under penalty of law that I am familian and complete and further, that the procedures Signature of UST Owner/Operator	described herein were followe	d during tank closure.
Full name of Owner/Operator Alan Da	ee Gould Date	8-7-91

Shw\ust\ail\cipifrm2 Revised 12/01/90

ENVIRONMENTAL CONTRACTORS

September 6, 1994

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

SEP 1 9 1994

DIV. OF ENVISORIES TAL RESPONSE AND REMEDIATION

Ms. Shelly Quick
Department of Environmental Response and Remediation
168 North 1950 West
Salt Lake City, Utah 84116

Subject:

Groundwater Sampling/Petition for Site Closure Report

Release Site #1229 EHGV Facility I.D. #1200147 855 East 25th Street Ogden, Utah

Dear Ms. Quick,

Environmental Contractors, Inc. has been retained by Mr. Alan Gould to sample groundwater within the former excavation at the subject property (or "site") located at 855 East 25th Street in Ogden, Utah. This action had been coordinated with Ms. Shelly Quick, DERR project manager. It was agreed that a hand auger would be used to collect groundwater samples from opposite ends of the excavation and samples would be analyzed for TPH and the aromatic hydrocarbons (BTEXN).

SITE HISTORY

UST Closure Notice data indicate one 10,000 gallon gasoline tank was removed from a single excavation on August 5, 1991. A petroleum hydrocarbon release was subsequently to the DERR (formerly the "Bureau of Environmental Response and Remediation"). Chemical analytical data listed Total Petroleum Hydrocarbon (TPH) concentrations of 35 ppm and 30 ppm in water sampled from the excavation.

Note: Because water was encounter in the excavation, no soil samples were collected and BTEXN was not analyzed in the water samples following established UST closure protocol at the time of closure.

GROUNDWATER SAMPLING

On August 23, 1994, the site was visited for the purpose of sampling groundwater. An initial boring, located at the south central end of the former excavation (Figure 1), was completed below groundwater using a hand auger equipped with a three-inch diameter bit. Groundwater was encountered at approximately 7 feet and the boring was extended to 8.5 feet. Well materials including a 5-foot section of PVC slotted (0.01) well screen were inserted into the boring to serve as a make-shift well. Groundwater was allowed to stabilize within the "well" for approximately one hour before sampling.

210 W. 200 N. Sulle 205 PROVO, U1AH 8460 I TEL: 801-373-2727 SLC: 801-561-8279 FAX: 801-374-9414 A second boring was attempted near the north-central end of the former excavation. Cobbles were encounter in the boring approximately 3 feet below grade rendering the hand auger useless. Four other attempts were made to complete a boring (moving progressively toward the center of the excavation) with the same results (Figure 1). Apparently, the excavation was backfilled with course material and the completion of the initial boring to groundwater was fortuitous.

QA/QC - CHEMICAL ANALYTICAL RESULTS

Groundwater sampled from the initial "well" was containerized in 40 ml glass "VOC" vials allowing no headspace. The sample was immediately placed in cold storage and transported under chain-of-custody to Utility Testing Laboratory, an E.P.A. and State-certified laboratory, for analysis of total petroleum hydrocarbons (TPH, EPA method #8015 modified), and aromatic hydrocarbons: benzene, toluene, ethylbenzene, xylenes, and naphthalene (BTEXN, EPA method 602/SW-846 #8020). The chemical analytical report and chain of custody are attached in Appendix A.

Chemical analyses list TPH and BTEXN concentrations below instrumental detection limits.

CONCLUSIONS AND RECOMMENDATIONS

Our assessment of the present groundwater condition in the vicinity of the former excavation is limited to one groundwater sample from the south-central end of the excavation. Course backfill materials in the excavation frustrated our efforts to collect a second water sample near the north-central end of the excavation. Although a second sample would have been desirable, a single sample may be sufficient to evaluate petroleum hydrocarbons within a relatively small sample target area (the former excavation). Considering the fact that no petroleum hydrocarbons were detected in the water sample at the former source of release, we recommend no further action be required at this site.

LIMITATIONS

Our services consist of professional opinions and recommendations made in accordance with generally accepted environmental engineering principles and practices at the time of execution. This warranty is in lieu of all other warranties either expressed or implied.

Respectfully submitted,

Environmental Contractors, Inc.

Lyle V. Phillips, Ph.D.

Project Geologist

Appendix A

CHEMICAL ANALYTICAL REPORT

875 SO. CHESTNUT ST. P. O. BOX 25005 SALT LAKE CITY, UTAH 84125 PHONE: (801) 973-8305 FAX: (801) 973-8333

August 30, 1994

Environmental Contractors 210 West 200 North Provo, UT 84601

Attention: Mr. Lyle Phillips

Subject: TPH/BTEX Testing - Proj. - ADSCO

Sample Collected: 23 Aug 1994

Sample Received: 23 Aug 1994

TOTAL PETROLEUM HYDROCARBONS (TPH) - GASOLINE & DIESEL

(MODIFIED CALIFORNIA METHOD 8015)
METHOD DETECTION LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No. 08-23-94-11

WATER SAMPLE SOUTH CENTRAL EXCAVATION

Test Results mg/Kg, mg/L (ppm)
< 0.5 mg/L, Gasoline

Date Analyzed: 27 AUG 1994

< 0.5 mg/L Diesel < 0.5 mg/L TPH

BTEX

SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
METHOD DETECTION LIMITS: 5 ppb SOIL, 3 ppb WATER
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No. 08-23-94-11

WATER SAMPLE SOUTH CENTRAL EXCAVATION

Date Analyzed: 29 AUG 1994

Test Results μg/Kg, μg/L (ppb)

< 2 µg/L Benzene.

< 2 μg/L Toluene

< 2 µg/L Ethylbenzene < 6 µg/L Xylenes, Total

< 2 µg/L Naphthalene

UTILITY TESTING LABORATORY

D. M. Thorsen



PROJECT N	AME: A	0560	SAMPLER: JUL EMILLOS						
SAMPLE NUMBER	SAMPLE L	OCATION	DATE	TIME	SAMPL	E/TYPE	# OF CONT	ANALYSIS REQUESTED	
TW-5	South-co	utien	8123/44	(0:09 am.	Hoo		12:40ml	BTEXN	
		• • • • • • • • • • • • • • • • • • • •							
-									
					· · · · · · · · · · · · · · · · · · ·				
				,					
Relinquished by (signature) Rece			Received by (signature) Boeve		Date/Time August 23, 94 1:30pm			
Relinquished b	y (signature)	,	Received by (signature)		Date/Time			
Relinquished b	y (signature)	· · · · · · · · · · · · · · · · · · ·	Received by (signature)			Date/Time		
Shipped by (si	gn)	Date/Time		Received for l	aboratory by		Date/Time		
Method of Shi	pment:							,	



