ENVIRONMENTAL REVIEW RECORD

Documentation of an Environmental Assessment for Projects/Activities Found at 24 C.F.R. Part 58.36, Which Are Subject to the Federal Laws and Authorities Found at 24 C.F.R. Part 58.5 and Other Requirements found at 24 C.F.R. Part 58.6

<u>1 Project/Activity Information, Executive Summary, Determinations, and Certification:</u>

<u>Project Name</u>: Downtown Minot Smart Growth Development: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

<u>Project Location:</u> The proposed project location is in Minot, North Dakota. The proposed area is approximately 82 acres and is enclosed by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east, and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of re-paving includes an additional 1.5 acres to the east along 3rd Avenue SE. The proposed parking facilities will be located at the half block on 1st Street SW between 2nd Avenue and 3rd Avenue SW and the half block on 1st Street SW between 1st Avenue SW and Central Avenue W.

<u>Project Funding Program:</u> U.S. Department of Housing and Urban Development Community Development Block Grant Disaster Recovery; U.S. Economic Development Administration Economic Adjustment Strategy Grant

HUD Project Loan or Grant Number: B-12-MT-38-0001

Project Total Development Cost (provide best estimate): \$49,000,000.00

Project HUD Assistance: \$5,375,000.00

Project EDA Assistance: \$18,000,000.00

Grant Recipient: City of Minot, North Dakota

[24 C.F.R. Part 58(a)(5)]

Grant Recipient's Address: P.O. Box 5006, Minot, North Dakota, 58702-5006

Project Representative: Cindy Hemphill, CPA, MSM, Finance Director, City of Minot,

North Dakota

Project Representative's Telephone Number: 701-857-4784

Responsible Entity (RE): City of Minot, North Dakota

[24 C.F.R. Part 58.2(a)(7)]

Certifying Official: Curt Zimbelman, Mayor, City of Minot, North Dakota [24 C.F.R. Part 58.2(a)(2)]

Estimated Project Total Development Cost: \$49,000,000.00

Statement of Purpose and Need for the Proposed Action:

[40 C.F.R. Part 1508.9(b)]

In June 2011, the City of Minot suffered substantial real estate and public infrastructure damage due to flood waters from the Mouse River (called the Souris River in Canada). Extensive flooding in the downtown area washed out the storm water sewer system, inundated the sewage system, and damaged the potable water system and roadways. Repairing and upgrading the downtown area is critical to the City of Minot's long-term disaster recovery. The proposed project for the Economic Development Administration (EDA)'s Economic Adjustment Strategy Grant would restore and improve the public infrastructure in the Central Business District and adjacent manufacturing district, including the sanitary sewage systems, stormwater drainage systems, water distribution systems, street lighting systems, and pavement within the City of Minot's downtown redevelopment area. Infrastructure improvements are needed to support existing and future zoning and land uses. In addition, downtown revitalization was identified as an essential element for growth and sustained development. The proposed project would improve the City of Minot's urban core and encourage mixed-used development and promote economic vitality. As important as it is to provide safe and affordable housing outside the impacted flood area, the City of Minot must also revitalize its damaged downtown area to avert blight in the future. The disaster affected the quality, quantity, and affordability of the housing stock.

The City of Minot, North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) Program for 2011 Disasters The proposed project for CDBG-DR funding involves the construction of two parking facilities associated with the "Imagine Minot" downtown revitalization initiative. These parking facilities would be built to accommodate future rental housing. Twenty percent of that future housing is to be reserved as affordable workforce housing. The development of new affordable rental units and their supporting infrastructure is critical to the long-term recovery of the City.

Description of the Proposed Action:

(Include all contemplated actions which logically are either geographically or functionally a composite part of the project, regardless of the source of funding. [24 C.F.R. Part 58.32, 40 C.F.R. Part 1508.25])

The project proposed for HUD funds includes new parking facilities associated with the "Imagine Minot" downtown revitalization initiative. It consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half bock on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access, and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The project proposed for EDA funds includes repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development. Proposed infrastructure improvements are:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the project area and 58 maintenance holes, as all segments of pipe are smaller than current design standards set by the City of Minot. The existing diameters range from 10 inches to 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;

- Replacing existing street lights and conduits with 256 energy-efficient street lights that meet current codes and standards in accordance with the National Electrical Code, the National Electrical Safety Code, and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb and gutters (approximately 27,500 linear feet), and sidewalks (approximately 25,000 square yards) within the study area. The only segment of the study area that would not be replaced is 3rd Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

Project Location Maps, Appendix A

Existing Conditions and Trends:

(Describe the existing conditions of the project area and its surroundings, and trends likely to continue in the absence of the project. [24 C.F.R. Part 58.40(a)])

The proposed project location is on the northeast side of the city center, south of the Mouse River. The majority of the proposed project site includes Minot's Central Business District (zoned C-3 "Central Commercial Zone") but there are tracts of land in the northeast of the project area that are zoned for light and heavy manufacturing uses and two small pockets of public lands that include a high school and small portion of a courthouse (City of Minot Zoning Map). Railroad tracks cut through the northern portion of the proposed project area, running east-west until they reach Main Street and then run northwest-southeast. The proposed project area is mostly developed with a mix of uses including commercial, medical, residential, and retail. The proposed parking facilities are currently used as surface parking lots. The existing condition of the public infrastructure in the project area is as follows:

Sanitary Sewer Collection System

Wastewater generally flows in the sanitary sewer collection system from south to north across the study area where it is collected along a trunk sewer located at Central Avenue and is conveyed to the east of the project area. The majority of the existing pipe consists of vitrified clay pipe (VCP) constructed in the early 1900s. The existing VCP is cracked and damaged throughout the study area.

In general, sanitary sewer capacity throughout the project area is adequate; however, the damaged VCP causes excessive inflow and infiltration that often overloads the sanitary sewers with clean water that enters the sewers through cracks and manholes. In addition, steep slopes in the sanitary sewers in the project area generate very high velocities that have scoured and eroded the VCP.

Stormwater Drainage System

Generally, there are three stormwater pipe networks within the project area: 1st Street NW/SW; 3rd Street NE/SE; and 3rd Avenue SE. 1st Street NW/SW is entirely constructed of 15-inch diameter VCP pipe. The drainage area for this network consists of the area between N/S Broadway and Main Street N/S, extending from the Mouse River to approximately 6th Avenue SW. The pipe network conveys the runoff from a commercial area south of Burdick Expressway that is outside of the project area. Existing pipe diameters of the 3rd Street NE/SE pipe network range from 10-inch to 36-inch and consist of vitrified spent pot-liner (VSP), vitrified pipe (VP), and PCR. The drainage area is entirely within the study area, generally draining an area westerly of 3rd Street NE/SE, north of 3rd Avenue SE. The 3rd Avenue SE existing pipe diameters range from 15-inch to 54-inch and consist of VCP and one segment of concrete pipe. This pipe network drains a corner of the project area, with the majority of the drainage area being southerly and easterly of the project area. All pipe sizes are smaller than current design standards set by the City of Minot.

Water Distribution System

The existing water main system is primarily fed through 12-inch water mains located in Central Avenue between Main Street and 3rd Avenue SE, 3rd Avenue SE, 2nd Avenue SE from Broadway to Main Street and Main Street from 2nd Avenue SE to Central Avenue. Most other water mains in the area consist of 6-inch and 8-inch mains. The existing system lacks adequate looping of water mains to provide reliable fire protection and redundancy in the event that a key segment of water main is taken out of service.

Street Lighting

The entire study area has a street lighting system built in various stages and with widely varying standards and needs to be upgraded to current codes and standards.

Paving and Traffic Signals

Primary traffic through the downtown study area is conveyed North and South along Broadway Avenue on the western limits of the study area. Primary east-west traffic occurs on the Burdick Expressway which represents the southern boundary of the study area. Six signalized intersections are located within the study area and are in need of upgrading due to the increased traffic expected to be generated by near-term and future redevelopment. The roadways are in poor condition; existing curb, gutter and sidewalks are damaged and uneven.

Alternatives to the Proposed Action

Alternatives and Project Modifications Considered [24 C.F.R. Part 58.40(e), 40 C.F.R. Part 1508.9]

(Identify and discuss all reasonable alternative courses of action that were considered and were not selected, such as alternative sites, designs, or other uses of the subject site(s). Describe the benefits and adverse impacts to the human environment of each alternative, in terms of environmental, economic, and design contexts, and the reasons for rejecting each alternative. Also, finally discuss the merits of the alternative selected.)

The proposed project, for which CDBG-DR and EDA funds are being requested, is intended to support the "Imagine Minot" downtown revitalization initiative. The "Imagine Minot" project plans to revitalize 36 city blocks in downtown Minot by incorporating mixed-use buildings, parking structures and green space into the urban design to improve walkability, increase access to amenities, and increase density to address housing demand. The proposed project would restore and improve the existing public infrastructure in the downtown area. Other alternatives were rejected since the project proposes to repair and enhance the existing infrastructure. Alternative sites for the two proposed parking facilities were rejected because the proposed sites are currently used as surface parking lots; therefore, no buildings would need to be demolished. Other alternatives would not address the purpose and need of the proposed project.

No Action Alternative

[24 C.F.R. Part 58.40(e)]

(Discuss the benefits and adverse impacts to the human environment of not implementing the no action alternative.)

Under the No Action Alternative, public infrastructure would not be repaired and the parking facilities would not be constructed, thereby failing to support existing land uses and infrastructure needs of the population and limiting the potential for the development of the "Imagine Minot" initiative. In addition, the City's urban core would not improve and mixed-use and infill development would not be promoted. Thus, the No Action Alternative would not address the purpose and need of the project.

Summary of Findings & Conclusions

(Briefly summarize all important findings and conclusions, discussing direct impacts, indirect impacts, and cumulative impacts.)

Based on completion of this environmental assessment, environmental review of the proposed project indicates there will be no significant changes to existing environmental conditions across the impact categories implemented by HUD in response to the National Environmental Policy Act of 1969. This is generally because the proposed project would repair and expand the existing public infrastructure and the proposed parking facilities would be constructed on existing surface parking lots. The proposed project will be constructed in compliance with Federal and State requirements.

Trends that may be expected during the proposed project include minor and temporary environmental impacts such as immediate-vicinity construction noise, dust generation, temporary increase in employment during construction activity, temporary increase in construction waste volumes disposed to landfills during construction activity, and temporary increases in traffic volumes during construction activity.

Summary of Recommended Mitigation Measures [24 C.F.R. Part 58.40(d), 40 C.F.R. Part 1508.20]

(Summarize the proposed mitigation measures identified and intended for implementation to eliminate or minimize adverse environmental impacts.)

Standard Mitigation Measures

Best Management Practices (BMPs) should be used by the contractor to avoid and minimize temporary construction impacts. These BMPs would include:

- Acquire all required federal, state and local permits before beginning construction
- Construction noise should be mitigated with BMPs as described in applicable city, state and federal
- Limit construction to Monday through Saturday from 7 a.m. to 7 p.m. or to the hours specified in an applicable local ordinance
- Outfit all internal combustion equipment with effective mufflers
- Minimize engine idling
- Implement air quality control measures during construction so as to not impact the air quality of the surrounding areas.
- Use heavy water spray or chemical dust suppressant in exposed areas as needed to control dust
- Reduce vehicle speed on non-paved areas and keep paved areas clean
- Wash heavy trucks and construction vehicles before they leave the site
- Cover the load compartments of trucks hauling dust-generating materials
- Prevent impeding traffic flow along construction routes and obstructing access to adjacent open space by construction equipment
- Establish and follow specified procedures for managing contaminated materials discovered or generated during construction
- Employ spill mitigation measures immediately upon a spill of fuel or other hazardous material
- Bring in qualified fill as needed and standard safety excavation practices during trenching activities
- Phase construction of project and schedule or limit grading to small areas
- Implement and maintain erosion and sedimentation control measures including minimizing the amount of clearing and exposed soil
- Install sedimentation controls prior to beginning construction activities
- Protect existing drain inlets from debris, soil and sedimentation
- Schedule land stabilization activities, such as landscaping, immediately after land has had final contouring
- Implement stormwater management system to minimize soil erosion and control stormwater run-off to mitigate impacts to surface and groundwater
- Revegetate cleared areas as soon as possible
- Do not introduce invasive plants to the site
- Protect stream, wetlands, woods and other natural areas from any unnecessary construction activities or disturbance

Conditions for Approval

(List all mitigation measures adopted by the responsible entity to eliminate or minimize adverse environmental impacts. These conditions must be included in project contracts or other relevant documents as requirements. [24 C.F.R. Part 58.40(d), 40 C.F.R. Part 1505.2(c)])

- Though no federal permits were identified as necessary for the project, all required state and local permits must be acquired before beginning construction
- Protect existing drain inlets from debris, soil and sedimentation
- Do not introduce invasive plants to the site
- Use heavy water spray or chemical dust suppressant in exposed areas as needed to control dust
- Require the construction contractor to implement the following measures for mitigation of construction impacts:
 - Construction noise should be mitigated with BMPs as described in applicable city, state and federal codes.
 - Limit construction to Monday through Saturday from 7 a.m. to 7 p.m. or to the hours specified in an applicable local ordinance
 - Outfit all internal combustion equipment with effective mufflers
 - o Minimize engine idling
 - Use heavy water spray or chemical dust suppressant in exposed areas as needed to control dust
 - Prevent impeding traffic flow along construction routes and obstructing access to adjacent open space by construction equipment
 - Establish and follow specified procedures for managing contaminated materials discovered or generated during construction
 - Employ spill mitigation measures immediately upon a spill of fuel or other hazardous material
 - Protect stream, wetlands, woods and other natural areas from any unnecessary construction activities or disturbance.
 - Establish and follow site safety plans
 - Remove contaminated soil located at 205 1st Street SW during development

Additional Studies Performed

(Summarize and attach all special studies performed to support the environmental assessment analysis.)

City of Minot Downtown Redevelopment Project Public Utility Infrastructure Improvements, Preliminary Engineering Report, January 8, 2013, Prepared by CDM Smith, **Appendix B**

Phase I Environmental Site Assessment, 205 1st Street SW, Minot, ND, August 2012, Prepared by TriMedia Environmental and Engineering, **Appendix B**

Phase I Environmental Site Assessment, 5 Central Avenue West, Minot ND, August 2012, Prepared by TriMedia Environmental and Engineering **Appendix B**

Limited Phase II Environmental Site Assessment, 205 1st Street SW, Minot, ND, January 2013, Prepared by CDM Smith, **Appendix B**

Limited Phase II Environmental Site Assessment, 5 Central Avenue West, Minot ND, January 2013, Prepared by CDM Smith, **Appendix B**

[24 CF	R Part 58.40(g)]				
<u>X</u>	Finding of No Significant Impact (The project will not result in a significant	impact on the qua	ality of the hum	ıan envi	ronment)
	Finding of Significant Impact (The project may significantly affect the q	uality of the huma	n environmen	t)	

Environmental Review Preparer's Information:

Environmental Preparer's name, title, and organization (printed or typed):

Rebecca Jablon, AICP, LEED AP, Environmental Planner, CDM Smith

Environmental Preparer's signature: Ribuca John

Date: February 12, 2013

Responsible Entity, Representative's Information/Certification:

Responsible Entity, Representative's name, title, and organization (printed or typed):

Curt Zimbelman, Mayor, City of Minot, North Dakota

Responsible Entity, Representative's signature:

Date: 2 · /2 · 2013

2 Statutory Checklist (ref.: 24 C.F.R. Part 58.5 – Related Federal laws and authorities)

(For each listed statute, executive order (E.O.), or regulation, record the determinations made. Summarize all reviews and consultations completed as well as any applicable permits or approvals obtained. Attach supporting evidence that all required actions have been accomplished. Summarize any conditions or mitigation measures required. Then, state a determination of compliance or consistency.)

Factors

Summary of consultations, supporting documentation, determinations, & mitigation measures

Historic Preservation

[36 C.F.R. Part 800]

The proposed project is in compliance. The North Dakota State Historic Preservation Office (SHPO) was contacted to determine whether the proposed project would have potential impacts on historic sites. SHPO indicated in a letter dated October 1, 2012 that the proposed project would not affect cultural resources "provided the project is of the nature specified, and is restricted to the specific areas described in the correspondence dated September 7, 2012. The proposed project takes place within the Commercial and Industrial Historic Districts which are listed in the National Register of Historic Places, thus any impacts to structures in the APE should be avoided".

Consultation with Native American Tribes, in compliance with 36 CFR Part 800, was conducted. Notification letters were sent to five tribes (Assiniboine and Sioux Tribes of the Fort Peck Indian Reservation, Spirit Lake Tribe, Standing Rock Sioux Tribe, Turtle Mountain Band of Chippewa and Three Affiliated Tribes) on September 7, 2012 with the understanding that if no response was received within 30 calendar days, a determination of "no effect" will be made. As of January 28, 2013, no responses were received.

Response from SHPO, dated October 1, 2012, Appendix C

Floodplain Management

[24 C.F.R. Part 55, E.O. 11988] Letter to SHPO and Native American Tribes, dated September 7, 2012, **Appendix C**The proposed project is in compliance. The project site is not in the 100 years.

The proposed project is in compliance. The project site is not in the 100-year floodplain shown on the Federal Emergency Management Agency's Flood Insurance Rate Map (FIRM) 38101C0781D dated January 19, 2000 (Appendix D).

Portions of the project site are within the 500-year floodplain. The 500-year floodplain is the minimal floodplain of concern for Critical Actions. The proposed project is not a Critical Action as defined in 24 CFR 55.2(b)(2), and therefore not subject to requirements that apply only in the 500-year floodplain.

The North Dakota State Water Commission (SWC) was notified of the project and requested to assess the potential impacts of the proposed project on floodplains. In a letter dated October 11, 2012, the SWC confirmed that the proposed project will not impact an identified floodplain.

Response from SWC, dated October 11, 2012, Appendix D

Letter to SWC, dated September 7, 2012, Appendix D

Wetlands Protection [E.O. 11990]

The proposed project is in compliance. The Environmental Protection Agency (EPA) Region 8 and the North Dakota Game and Fish Department (NDGFD) were notified of the project and requested to assess the potential impacts of the proposed project on jurisdictional wetlands. Correspondence was sent on September 7, 2012 with the understanding that if no response was received within 30 calendar days, a determination of "no effect" will be made. As of January 28, 2013, no response was received from the EPA and the NDGFD.

Based on a review of the U.S. Fish and Wildlife Service's National Wetlands Inventory and aerial photography of the proposed site, no wetlands are within or directly adjacent to the proposed project site.

Construction of the proposed project could cause temporary environmental impacts; however Best Management Practices to control runoff from the construction site and prevent detrimental impacts to surface and ground water will be implemented.

Figure showing proximity of wetlands, Appendix E

Letter to EPA Region 8, dated September 7, 2012, Appendix E

Letter to NDGFD, dated September 7, 2012, Appendix E

Coastal Zone Mqt. Act [Sections 307 (c), (d)]

Not applicable in CO, MT, ND, SD, UT, and WY

Sole Source **Aquifers**

[40 C.F.R. Part 149]

The proposed project is in compliance. According to email communication on June 12, 2012 with E. Steinhaus, the North Dakota Watershed Coordinator of EPA Region 8, the North Dakota Department of Health has not classified any sole source aquifers in North Dakota. In addition, this was confirmed by the SWC (see Appendix D).

Endangered Species Act

[50 C.F.R. Part 402]

Email communication, E, Steinhaus, EPA Region 8, June 12, 2012, Appendix F

The U.S. Fish and Wildlife Service (USFWS) was contacted in a letter dated September 7, 2012 to determine whether the proposed project would have potential impacts on threatened or endangered species. Correspondence was sent with the understanding that if no response was received within 30 calendar days, a determination of "no effect" will be made. As of January 28, 2013, no response from the USFWS was received. Since no response was received, it is determined that no adverse effects to endangered species would occur from the proposed project.

Letter to USFWS, dated September 7, 2012, Appendix G

Wild & Scenic Rivers Act

[Sections 7 (b), (c)]

According to the National Wild and Scenic Rivers System, North Dakota has no designated wild and scenic rivers.

The National Wild and Scenic Rivers System. North Dakota. Available at: www.rivers.gov/rivers/north-dakota.php. Accessed July 10, 2012.

Air Quality

[Clean Air Act, Sections 176 (c) & (d), & 40 C.F.R. Part 6, 51, & 93]

The proposed project is in compliance. The EPA evaluates areas across the country to determine if air pollution levels exceed the National Ambient Air Quality Standards (NAAQS). According to the EPA's Green Book, the project site is in attainment for all criteria pollutants.

Construction activities that could affect air quality include fugitive dust and vehicle exhaust emissions from construction operations and hauling vehicles. Potential air quality impacts caused by construction would be temporary in nature and occur only where construction is taking place. Standard dust control measures will be employed throughout the construction period to reduce the creation of airborne dust. Therefore, these effects will not cause any long-term degradation of air quality in the Ward County area and are only expected to have localized, temporary impacts in the vicinity of the project area.

Operational air quality effects include increased traffic as a result of adding new parking facilities. However, these air quality effects would not contribute significantly to emissions.

EPA. The Green Book Nonattainment Areas for Criteria Pollutants. www.epa.gov/air/oagps/greenbk/index.html

Farmland Protection Policy Act [7 C.F.R. Part 658]

The proposed project is in compliance. The Natural Resources Conservation Service (NRCS) was contacted in a letter dated September 7, 2012 for information regarding prime farmlands near the project area. A response from NRCS dated September 19, 2012 indicated that the Farmland Protection Policy Act which requires the NRCS to document conversion of farmland to non-agricultural use when federal funds are utilized does not apply because this project is in an area of urban development; therefore, no further action is needed.

Letter to NRCS, dated September 7, 2012, Appendix H

Response from NRCS, dated September 19, 2012, Appendix H

Environmental Justice [E.O. 12898]

The proposed project is in compliance. The 2010 U.S. Census indicated that the census tract which includes the project site has a total minority population of 13.1 percent, which is higher than Minot (11.2 percent) and higher than Ward County (11.3 percent) as a whole (see Table 1). Thus, the proposed project could disproportionately affect minority populations.

Median household income in the project area is lower than in the City of Minot and in Ward County as a whole. The poverty rate in the block group containing the project site is 16.8 percent, which is higher than in Minot and higher than in Ward County as a whole. Thus, the proposed project could disproportionately affect low-income populations.

Per Executive Order 12898, Section 1-101, in order for environmental justice to be a concern the proposed project would have a "disproportionately high and adverse" effect on a minority or low-income population. While the proposed project could impact low-income and minority populations the proposed project would not adversely impact these populations.

Table 1
Demographic Data for the Proposed Project Area, Minot, North Dakota from 2010 U.S. Census

Parameter	Ward County Census Tract 101 ² (includes project site)	City of Minot	Ward County as a whole
Total population	3,092	40,888	61,675
Total minority population ¹	406	4,594	6,958
	13.1%	11.2%	11.3%
Percentage of population below poverty level	16.8%	11.3%	9.4%
Median household income in 2009	\$29,780	\$44,452	\$48,793

¹ Persons not "white alone" within the "Not Hispanic or Latino" subgroup 2 As of January 30, 2013, the smallest geographic unit available for income data is the census tract.

HUD Environmental Standards

Summary of consultations, supporting documentation, determinations, & mitigation measures

Noise Abatement & Control

[24 C.F.R. Part 51B]

The proposed project is in compliance. HUD standards for noise exposure do not apply to infrastructure projects such as the proposed project, because they are not noise sensitive uses. (24 CFR 51.101)

Noise associated with construction activities will be short-term and will be controlled through the use of Best Management Practices (see Summary of Recommended Mitigation Measures above).

Toxic Chemicals & Gases. Hazardous Materials, Contamination, & Radioactive **Substances**

[24 C.F.R. Part 58.5(i)(2)(i)]

The proposed project is in compliance. In order to identify sites near the proposed project location that have hazardous materials, contamination, toxic chemicals, gases and radioactive substances as specified in 24 CFR 58.5(i), a review of NEPAssist, a web-based application tool that draws environmental data from EPA's Geographic Information System databases, and a review of aerial photographs were conducted. The NEPAssist review included an examination of the EPA's Superfund National Priorities List, the Toxics Release Inventory, brownfields, Air Facility Systems, and hazardous waste databases.

There are eleven hazardous waste (RCRA) facilities within 3,000 feet of the proposed project location. The facilities are the following:

- Farmer's Union Oil Company is within the proposed project area.
- Minot Daily News is located approximately 36 feet from the proposed project site.
- Trinity Health St. Joe's is located approximately 43 feet from the proposed project site.
- Trinity Hospital is located approximately 184 feet from the proposed project site.
- Westlie Motor Co. Inc. is located approximately 382 feet from the proposed project site.
- Carquest Western Auto is located approximately 387 feet from the proposed project site.
- Wilbur-Ellis Co. is located approximately 1,234 feet from the proposed project site.
- Coca-Cola Bottling Co. is located approximately 1,327 feet from the proposed project site.
- M-I Drilling Fluids Co. is located approximately 1,425 feet from the proposed project site.
- Nybakken Body Shop is located approximately 1,921 feet from the proposed project site.
- Broadway Body Shop is located approximately 2,600 feet from the proposed project site.

According to the EPA's Enforcement & Compliance History Online (ECHO) reports for these facilities, there are no indications of releases or compliance violations that would impact the intended use of the proposed project site.

In addition, Limited Phase II Environmental Site Assessments (Phase II ESAs) were conducted at the proposed parking facility sites: 205 1st Street SW and 5 Central Avenue West. The Phase II ESA for 205 1st Street SW determined that thought a number of contaminants were detected at concentrations that exceed applicable screening criteria, the concentrations are not excessive and the contaminated material will be removed during construction of the new parking garage. The Phase II ESA for 5 Central

Avenue West determined that no exceedances, other than arsenic at naturally occurring background levels, were detected in any borehole.

The North Dakota Department of Health, in letters dated February 11, 2013 agreed with the recommendations of the Phase II ESAs, in that no immediate remediation is required at 205 1st Street SW, provided that the contaminated soil is removed during future development of the site and that no further action is required at 5 Central Avenue W.

According to data retrieved from the North Dakota Department of Health Underground Storage Tank Program

(www.ndhealth.gov/WM/UndergroundStoragetankProgram/) and aerial photograph review, there is one active leaking underground storage tank (LUST) located within the EPA standard All Appropriate Inquiry search distance of 0.5 miles from the project site. The Mini Mart 673 tank is located approximately 0.5 miles east of the proposed project site. However, this LUST site will not conflict with the intended use of the property, as the proposed project would involve the repair and upgrade of infrastructure and construction of two parking facilities.

Figure indicating the proximity of the project site to toxic chemicals, hazardous materials, and radioactive substances, **Appendix I**

EPA, ECHO Detailed Facility Reports, Appendix I

Limited Phase II Environmental Site Assessment, 205 1st Street SW, Minot, ND, January 2013, Prepared by CDM Smith **Appendix B**

Limited Phase II Environmental Site Assessment, 5 Central Avenue West, Minot ND, January 2013, Prepared by CDM Smith **Appendix B**

North Dakota Department of Health, response regarding Limited Phase II Environmental Site Assessment, 205 1st Street SW, Minot, ND, dated February 11, 2013, **Appendix B**

North Dakota Department of Health, response regarding Limited Phase II Environmental Site Assessment, 5 Central Avenue W, Minot, ND, dated February 11, 2013, **Appendix B**

Siting of HUD-Assisted Projects near Hazardous Operations [24 C.F.R. Part 51C] The proposed project is in compliance. The two proposed parking facilities are to support future residential development, and therefore 24 CFR 51C applies. Based on data retrieved from the North Dakota Department of Health (https://www.ndhealth.gov/WM/UndergroundStoragetankProgram/) and aerial photograph review, there is one active aboveground storage tank (AST) within one mile of the proposed parking facilities.

205 1st Street SW and 5 Central Avenue West are respectively located approximately 1,509 feet southwest and 1,173 feet west of an AST located at 215 Central Ave East. This AST is located at the Farmers Union Oil Company site, owned by Enerbase. The AST contains unknown chemicals of a potentially flammable or explosive nature. The AST was determined to be approximately 22,000 gallons in volume. Acceptable separation distance (ASD) calculations for this tank were performed per the HUD document "Siting of HUD-Assisted Projects Near Hazardous Facilities". The ASDs for fire hazard were calculated to be 1,002 feet for people and 210 feet for buildings.

Based on calculated ASDs, the proposed project sites are located outside the ASD radii for both buildings and people from the AST identified within one mile of the proposed project locations.

Airport Clear Zones & Accident Potential Zones

[[24 C.F.R. Part 51D]

The proposed project is in compliance. HUD policy is to apply standards to prevent incompatible development around civil airports and military airfields. The airport clear zones (or runway protection zones - RPZs) and accident potential zones (APZs) within the vicinity of the proposed project must be identified. For properties located within 2,500 feet of the end of a civil airport runway or 15,000 feet of the end of a military airfield runway, the airport operator should make a finding stating whether or not the property is located within a runway clear zone for civil airports or a clear zone or accident potential zone at a military airfield

According to 24 CFR 51.300, 301(c), the appropriate airports to be considered for identifying airport clear zones are those designated as "commercial service" by the Federal Aviation Administration (FAA). The proposed project location is approximately 1.2 miles southwest of the nearest runway at Minot International Airport, the closest commercial services airport. Therefore, the proposed project location is not within 2,500 feet of the end of a civil airport runway.

APZs are found at military airfields. The closest airfield utilized for military purposes is Minot Air Force Base, approximately 11 miles from the proposed project location. Therefore, the proposed project location is not located within 15,000 feet of the end of a military airfield runway.

Aerial imagery and drawing of RPZs, Appendix J

Aerial imagery showing the relationship between Minot AFB and the city limits, $\mbox{\bf Appendix}\mbox{\,\bf J}$

3 Environmental Assessment Checklist (ref.: Environmental Review Guide HUD CPD 782, 24 C.F.R. Part 58.40, 40 C.F.R. Parts 1508.8 & 1508.27)

(Evaluate the significance of the effects of the proposal on the character, features, and resources of the project area. Enter relevant base data and verifiable source documentation to support the finding. Then enter the appropriate impact code from the following list to make a finding of impact. **Impact Codes:** (1) – No impact anticipated; (2) Potentially beneficial; (3) Potentially adverse; (4) – Requires mitigation; (5) – Requires project modification. Note names, dates of contact, telephone numbers, and page references. Attach additional materials as needed.)

LAND DEVELOPMENT	Code	Summary of consultations, supporting documentation, determinations, & mitigation measures
Conformance with Comprehensive Plans & Zoning	1	The City of Minot operates under an adopted comprehensive plan and zoning ordinance. The proposed project would improve infrastructure services and support infill development, and is therefore consistent with current local plans. The proposed project would maintain current land use, and would therefore conform to the City's zoning ordinance.
Compatibility & Urban Impact	2	The proposed project would maintain current land use, and would therefore be compatible with existing land use. Because the proposed project would allow for additional people to live in the area and additional businesses to operate in the area, it could have an urbanizing effect, which is a goal of the "Imagine Minot" initiative.
Slope	1	The proposed project site does not contain and would not create steep slopes. The stability of the site would not be a concern for the project.
Soil Suitability	1	Soil mapping attained through the Natural Resources Conservation Service indicates that less than 2% of the soils on the proposed project site have moderate potential for corrosion of concrete and steel.
Hazards & Nuisances Including Site Safety	1	Figure showing soil suitability, Appendix K Based on a review of NEPAssist regulatory databases, aerial photographs, Phase I ESAs, Limited Phase II ESAs, and known operational activities, the proposed project site has no unusual hazards, nuisances, or safety concerns. Site safety plans will be included in the construction contract. Figure indicating the proximity of the project site to toxic chemicals, hazardous materials, and radioactive substances, Appendix I Phase I Environmental Site Assessment, 205 1 st Street SW, Minot, ND, August 2012, Prepared by TriMedia Environmental and Engineering, Appendix B Phase I Environmental Site Assessment, 5 Central Avenue West, Minot ND, August 2012, Prepared by TriMedia Environmental and Engineering Appendix B Limited Phase II Environmental Site Assessment, 205 1 st Street SW, Minot, ND, January 2013, Prepared by CDM Smith, Appendix B Limited Phase II Environmental Site Assessment, 5

		Central Avenue West, Minot ND, January 2013, Prepared by CDM Smith, Appendix B
Energy Consumption	1	The proposed project would not consume a significant amount of energy, except for a typical amount during construction.
Noise – Contribution to	4	Construction noise will be a short-term impact that will
community noise levels		be controlled by Best Management Practices (see Summary of Recommended Mitigation Measures above). Noise impacts would be mitigated to the greatest extent feasible. Construction noise will be within applicable city, state and federal codes. Thus, construction noise is not expected to have an impact to the project or surrounding areas.
		Please refer to the Noise Abatement and Control Section in the Statutory Checklist.
Air Quality – Effects of Ambient air quality on Project & contribution to Community pollution levels	4	The proposed project is not anticipated to have a significant impact on air quality within Ward County. Operational air quality effects include increased traffic as a result of adding new parking facilities. However, these air quality effects would not contribute significantly to emissions. Construction emissions would be controlled by standard dust control measures throughout the construction period to reduce the creation of airborne dust. The Operations Contractor will be responsible for keeping dust generated on haul roads to a minimum with the use of heavy water spray (see Summary of Recommended Mitigation Measures above). Therefore, construction effects would not cause any long-term degradation of air quality in the Ward County area and are only expected to have localized, temporary impacts in the vicinity of the project itself. Please refer to the Air Quality Section in the Statutory
		Checklist.
Environmental Design –	1	The proposed project would have no significant impact
Visual quality – coherence, Diversity, compatible use & Scale		on the visual quality of the project area. It is consistent with the land use and scale of the project area.
SOCIOECONOMIC	Code	Summary of consultations, supporting documentation, determinations, & mitigation measures
Demographic Character Changes	1	The proposed project would have no direct effect on the demographic character of the project area. The indirect effects of building facilities to accommodate the future addition of housing would include bringing more people to the area; however, the size of the development is too small to cause significant impacts.
Displacement	1	The proposed infrastructure improvements would occur within street and infrastructure rights-of-way. The proposed parking facilities would be built on existing surface parking lots. Therefore, the proposed project would not displace any homes or businesses.

Employment & Income Patterns	1	The proposed project would have no adverse effect on employment and income patterns in the project area. Construction of the proposed project is anticipated to employ a number of temporary construction workers. The indirect effects of building facilities to accommodate the future addition of housing and the indirect effects of providing infrastructure to support mixed-use development would include bringing more people to the area and creating jobs; however, the size of the development is too small to cause significant impacts.
COMMUNITY FACILITIES AND SERVICES	Code	Summary of consultations, supporting documentation, determinations, & mitigation measures
Educational Facilities	1	The proposed project would not create a significant additional demand for educational services or interfere with delivery of educational services. The indirect effects of building facilities to accommodate the future addition of housing would include bringing more people to the area that may increase demand on educational facilities; however, the size of the development is too small to cause significant impacts.
Commercial Facilities	1	The proposed project would not create a significant additional demand for commercial services or interfere with operation of commercial facilities. The indirect effects of building facilities to accommodate the future addition of housing would include bringing more people to the area that may increase demand on commercial facilities; however, the size of the development is too small to cause significant impacts.
Health Care	4	The proposed project would not create a significant additional demand for health care or interfere with delivery of health care. The indirect effects of building facilities to accommodate the future addition of housing would include bringing more people to the area that may increase demand on health care; however, the size of the development is too small to cause significant impacts. The North Dakota Department of Health was notified of the project and requested to assess the potential impacts of the proposed project on air quality, water quality, and waste impacts. In a letter dated September 28, 2012, North Dakota Department of Health stated that environmental impacts from the proposed construction would be minor and can be controlled with construction measures that have been included into the mitigation measures. Appropriate mitigation measures will be used to minimize impacts of dust, stormwater runoff, and noise, as well as adverse effects to water bodies. Please see Summary of Standard Mitigation Measures. Response from North Dakota Department of Health, dated September 28, 2012, Appendix L
		Letter to North Dakota Department of Health, dated September 7, 2012, Appendix L

Social Services	1	The proposed project would not create a significant additional demand for social services or interfere with delivery of social services. The indirect effects of building facilities to accommodate the future addition of housing would include bringing more people to the area that may increase demand on social services; however, the size of the development is too small to cause significant impacts.
Solid Waste	1	The proposed project would generate solid waste during the construction phase but would not increase long-term generation of solid waste since any indirect increase in commercial or residential waste generation would be insignificant.
Waste Water	EDA-2 HUD-1	The proposed project would not generate wastewater and would not adversely affect the wastewater collection, treatment, and disposal system. The proposed project would replace or upsize damaged sewers in the project area to prevent inflow and infiltration that often overloads the system.
Storm Water	4	The project would improve the stormwater management system to accommodate existing and future capacity. Best management practices would be used to control stormwater runoff associated with construction of the proposed project (see Summary of Recommended Mitigation Measures above).
Water Supply	EDA-2 HUD-1	The proposed project would not consume an unusual quantity of water and would not affect the water supply system. The water main improvements would support greater capacity for the proposed project area and improve service and circulation.
Public Safety - Police	EDA-2 HUD-1	The proposed parking facilities project would not create a significant additional demand for police services or interfere with delivery of police services. The proposed infrastructure project would improve the roadways to current standards, and thereby would improve police access.
Public Safety - Fire	EDA-2 HUD-1	The proposed parking facilities project would not create a significant additional demand for fire protection services or interfere with performance of fire protection services. The proposed infrastructure project would improve the water supply capacity, as well as improve the roadways to current standards – thereby improving access to fire protection services
Public Safety - Emergency Medical	EDA-2 HUD-1	The proposed project would not create a significant additional demand for emergency medical services or interfere with performance of emergency medical services. The proposed infrastructure project would improve the roadways to current standards – thereby improving access to emergency medical services Trinity Hospital, with 24-hour emergency services, is located approximately 184 feet south of the proposed project site.

4 The proposed project is located within an existing Open Space & commercial area. Since all project work will occur Recreation within street and infrastructure rights-of-way and on - Open Space previously developed lots, there would be no adverse effect to open space. Best management practices would be implemented to prevent obstructing access to adjacent open spaces by construction equipment (see Summary of Recommended Mitigation Measures above). The North Dakota Parks and Recreation Department was notified of the project and requested to assess the potential impacts of the proposed project on open space and recreation. A letter was sent September 7. 2012 with the understanding that if no response was received within 30 calendar days, a determination of "no effect" will be made. As of January 28, 2013, no response was received. Letter to North Dakota Parks and Recreation Department, dated September 7, 2012, Appendix M **Open Space &** 1 The proposed project would not affect any cultural facilities. Recreation Cultural Facilities The proposed project would involve the conversion of 4 **Transportation** two surface parking lots to two parking garages. With the increase in available parking, traffic would increase slowly and incrementally as commercial and residential establishments are built and developed. Thus, the project would not create a significant additional demand for transportation services or interfere with the transportation network. The proposed infrastructure project would improve the street lighting and traffic signals within the project area, and in so doing will provide a safer transportation network. The North Dakota Department of Transportation (NDDOT) was notified of the project in a letter dated September 7, 2012 and requested to assess the potential impacts of the proposed project on transportation. A response dated October 9, 2012 indicated that the proposed project should have no adverse effect on the North Dakota Department of Transportation highways; however, there would be temporary impacts to traffic flow on city streets including U.S. 2 and U.S. 83 during construction. Additionally, if work is done in the highway right-ofway, appropriate permits and risk management documents would need to be obtained from the NDDOT District Engineer. Construction activities would increase traffic by way of construction equipment and worker commuting; however, this will be minimal and short-term. Best management practices would be implemented to prevent impeding traffic flow along construction routes by construction equipment (see Summary of

Version: 03/11 18

Recommended Mitigation Measures above).

		Response from North Dakota Department of
		Transportation, dated October 9, 2012, Appendix N
		Letter to North Dakota Department of Transportation, dated September 7, 2012, Appendix N
Water Resources	1	The proposed project would not involve significant water withdrawals and would not have a significant effect on water resources.
Surface Water	4	According to the EPA's Office of Water National Hydrography Dataset listed on NEPAssist, the nearest natural water feature is the Mouse River approximately 255 feet east of the southeast portion of the project area and 385 feet north of the northwest portion of the project area. Impact to the river would be prevented through best management practices for stormwater management (see Conditions for Approval above). The proposed project would have no effect on the stream.
		EPA, NEPAssist,
Unique Natural Features& Agricultural lands	1	http://nepassisttool.epa.gov/nepassist/entry.aspx There are no unique natural features or agricultural lands on or around the project site. Ward County, including the City of Minot, contains no designated national natural landmarks. Please refer to the Farmland Protection Policy Act Section of the Statutory Checklist above.
		U.S. Department of the Interior (DOI), National Park Service, North Dakota,
Vegetation & Wildlife	1	http://nature.nps.gov/nnl/state.cfm?State=ND The proposed project site is within an existing commercial area; therefore, activities associated with the proposed project are not expected to generate long-term adverse impacts on vegetation or wildlife.
		The U.S. Fish and Wildlife Service (USFWS) and North Dakota Game and Fish Department (NDGFD were notified of the project in a letter dated September 7, 2012 and requested to assess the potential impacts of the proposed project on vegetation and wildlife. Correspondence was sent with the understanding that if no response was received within 30 calendar days, a determination of "no effect" will be made. As of January 28, 2013, no response from the USFWS and NDGFD was received.
		Letter to USFWS, dated September 7, 2012, Appendix G
		Letter to NGGFD, dated September 7, 2012, Appendix E

(Note: The Responsible entity must additionally document compliance with 24 C.F.R. Part 58.6 in the Environmental Review Record, particularly with the Flood Insurance requirements of the Flood Disaster Protection Act and the Buyer Disclosure requirement of the HUD Airport Runway Clear Zone/Accident Potential Zone regulation @ 24 C.F.R. Part 51, Subpart D.)

4 Regulatory Checklist (ref.: 24 C.F.R. Part 58.6 – Other requirements):

Χ 24 C.F.R. Part 58.6(a): Flood Disaster Protection Act of 1973, as amended: (NOTE: Applicable only when project/activity site is located in a community participating in the National Flood Insurance Program, administered by the Federal Emergency Management Agency.) Is the project/activity located within a Special Flood Hazard Area (SFHA) as mapped by the Federal Emergency Management Agency (FEMA)? ____ Yes <u>X</u> No FEMA Map Number: FIRM 38101C0781D dated January 19, 2000 If the answer to this question is yes, the project/activity cannot proceed unless flood insurance is obtained through the National Flood Insurance Program. Insurance Policy Number: N/A <u>X</u>_ 24 C.F.R. Part 58.6(b): National Flood Insurance Reform Act of 1994, Section 582, (42 U.S.C. 5154a): (NOTE: Applicable only when the project site is located in an area where HUD disaster assistance is being made available.) Is the project located within a Special Flood Hazard Area (SFHA) as mapped by the Federal Emergency Management Agency (FEMA)? Yes X No FEMA Map Number: FIRM 38101C0781D dated January 19, 2000 If "Yes", would the HUD disaster assistance be made to a person who had previously received Federal flood disaster assistance conditioned on obtaining and maintaining flood insurance and that person failed to obtain and maintain the flood insurance? _____ Yes ____ No If "Yes", the HUD disaster assistance cannot be made to that person in the Special Flood Hazard Area to make a payment (including any loan assistance payment) for repair, replacement, or restoration for flood damage to any personal, residential, or commercial property.

N/A 24 C.F.R. Part 58.6(c): Coastal Barrier Improvement Act of 1990, as amended:

Insurance Policy Number: _____

(NOTE: Not applicable in the HUD Region VIII area. There are no coastal barriers identified in HUD Region VIII and in HUD Office of Native Americans, Northern Plains, States of CO, MT, NE, ND, SD, UT, and WY.)

X 24 C.F.R. Part 58.6(d): Civilian Airport Runway Clear Zone and/or Military Airport Clear Zone:

(**NOTE**: Applicable only if the project/activity involves HUD assistance, subsidy, or insurance for the purchase or sale of an existing property in a Runway Clear Zone or Clear Zone pursuant to 24 CFR Part 51, Subpart D.)

Does the project involve HUD assistance, subsidy, or insurance for the purchase or sale of an existing property in a Runway Clear Zone or Clear Zone pursuant to 24 CFR Part 51, Subpart D?

Yes X No See Statutory Checklist, Airport Clear Zones and Accident Potential Zones

Source documentation: GoogleTM Earth Pro, aerial mapping; Federal Aviation Agency (FAA), National Plan of Integrated Airport Systems (NPIAS)

Reports www.faa.gov/airports/planning_capacity/npias/reports/,

Kadrmas Lee & Jackson, Minot International Airport Layout Plan Update, June 6, 2012

If yes, the responsible entity must advise the buyer that the property is in a runway clear zone or clear zone, what the implications of such a location are, and that there is a possibility that the property may, at a later date, be acquired by the airport operator. The buyer must sign a statement acknowledging receipt of this information. For the appropriate content, go to: www.hud.gov/offices/cpd/environment/review/qa/airporthazards.pdf.

5 Attachments:

List of Sources, Agencies, and Persons Consulted

[40 C.F.R. Part 1508.9(b)]

(List and attach all evidence of inquiries and responses received at all stages of consultation and analysis.)

24 CFR Part 51, Subpart C: Siting of HUD-Assisted Projects Near Hazardous Facilities

City of Minot, 2012 Comprehensive Plan Update, Future Land Use Plan, April 20, 2012, www.minotnd.org/pdf/plan/comp/FAQ-Land%20Use.pdf

City of Minot Downtown Redevelopment Project Public Utility Infrastructure Improvements, Preliminary Engineering Report, January 8, 2013, Prepared by CDM Smith, **Appendix B**

City of Minot, Zoning Map, www.minotnd.org/pdf/minotzoning.pdf

City of Minot, Zoning Supplement to the City of Minot Code of Ordinances, May 12, 2004, www.minotnd.org/pdf/plan/zoning.pdf

Council on Environmental Quality (CEQ) guidance, under the National Environmental Policy Act, www.epa.gov/compliance/resources/policies/ej/ej_guidance_nepa_ceq1297.pdf

Executive Order 11990, Protection of Wetlands, www.epa.gov/OWOW/wetlands/regs/eo11990.html

Executive Order 12898, Environmental Justice, www.hud.gov/offices/fheo/FHLaws/EXO12898.cfm

Federal Aviation Agency (FAA), National Plan of Integrated Airport Systems (NPIAS) Reports www.faa.gov/airports/planning_capacity/npias/reports/

Federal Emergency Management Agency (FEMA) FIRM panel 38101C0781D, dated January 19, 2000, **Appendix D**

GoogleTM Earth Pro, aerial mapping

idno=7

Kadrmas Lee & Jackson, Minot International Airport Layout Plan Update, June 6, 2012

Limited Phase II Environmental Site Assessment, 205 1st Street SW, Minot, ND, January 2013, Prepared by CDM Smith, **Appendix B**

Limited Phase II Environmental Site Assessment, 5 Central Avenue West, Minot ND, January 2013, Prepared by CDM Smith, **Appendix B**

National Wild and Scenic Rivers System, North Dakota, www.rivers.gov/rivers/north-dakota.php

North Dakota Department of Health, letter dated September 7, 2012 and response dated September 28, 2012, **Appendix L**

North Dakota Department of Health, response regarding Limited Phase II Environmental Site Assessment, 205 1st Street SW, Minot, ND, dated February 11, 2013, **Appendix B**

North Dakota Department of Health, response regarding Limited Phase II Environmental Site Assessment, 5 Central Avenue W, Minot, ND, dated February 11, 2013, **Appendix B**

North Dakota Department of Transportation, letter dated September 7, 2012 and response dated October 9, 2012, **Appendix N**

North Dakota Game and Fish Department, letter dated September 7, 2012, Appendix E

North Dakota Parks and Recreation Department, letter dated September 7, 2012, Appendix M

North Dakota State Historic Preservation Office, letter dated September 7, 2012 and response dated October 1, 2012, **Appendix C**

North Dakota State Water Commission, letter dated September 7, 2012 and response dated October11, 2012, **Appendix D**

Phase I Environmental Site Assessment, 205 1st Street SW, Minot, ND, Prepared by TriMedia Environmental and Engineering, **Appendix B**

Phase I Environmental Site Assessment, 5 Central Avenue West, Minot ND, Prepared by TriMedia Environmental and Engineering, **Appendix B**

Spirit Lake Tribe, Tribal Historic Preservation Office, letter dated September 7, 2012, Appendix C

Standing Rock Sioux Tribe, Tribal Historic Preservation Office, letter dated September 7, 2012, Appendix C

Three Affiliated Tribes, Tribal Historic Preservation Office, letter dated September 7, 2012, Appendix C

Turtle Mountain Band of Chippewa, Tribal Historic Preservation Office, letter dated September 7, 2012, Appendix C

U.S. Census Bureau, American FactFinder, http://factfinder.census.gov/home/saff/main.html?_lang=en

U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), letter dated September 7, 2012 and response dated September 19, 2012, **Appendix H**

USDA, NRCS, Official Soil Descriptions, http://soils.usda.gov/technical/classification/osd/index.html

USDA, NRCS, Web Soil Survey, http://websoilsurvey.nrcs.usda.gov/app/

USDA, NRCS, Wetland Indicator Status, http://plants.usda.gov/wetinfo.html

U.S. Department of Housing and Urban Development (HUD) Acceptable Separation Distance Electronic Assessment Tool,

www.hud.gov/offices/cpd/environment/asdcalculator.cfm

HUD, Farmlands Protection Policy,

www.hud.gov/offices/cpd/environment/review/ga/farmlandprotection.cfm

U.S. Department of the Interior (DOI), National Park Service, North Dakota, http://nature.nps.gov/nnl/state.cfm?State=ND

U.S. Environmental Protection Agency (EPA), The Green Book Nonattainment Areas for Criteria Pollutants, www.epa.gov/air/oaqps/greenbk/index.html

EPA, NEPAssist,

http://nepassisttool.epa.gov/nepassist/entry.aspx

EPA, Resource Conservation and Recovery Act (RCRAInfo), www.epa.gov/enviro/html/rcris/rcris_query_java.html

EPA, letter sent September 7, 2012, Appendix E

EPA, Enforcement & Compliance History Online (ECHO) Detailed Facility Report, Farmer's Union Oil Company, December 28, 2012, **Appendix I**

EPA, ECHO Detailed Facility Report, Minot Daily News, December 28, 2012, Appendix I

EPA, ECHO Detailed Facility Report, Trinity Health - St. Joe's, December 28, 2012, Appendix I

EPA, ECHO Detailed Facility Report, Trinity Hospital, December 28, 2012, Appendix I

EPA, ECHO Detailed Facility Report, Westlie Motor Company Inc., December 28, 2012, Appendix I

EPA, ECHO Detailed Facility Report, Carquest Western Auto, December 28, 2012, Appendix I

EPA, ECHO Detailed Facility Report, Wilbur-Ellis Company, December 28, 2012, Appendix I

EPA, ECHO Detailed Facility Report, Coca-Cola Bottling Co., December 28, 2012, Appendix I

EPA, ECHO Detailed Facility Report, M-I Drilling Fluids Co., December 12, 2012, Appendix I

EPA, ECHO Detailed Facility Report, Nybakken Body Shop, December 28, 2012, Appendix I

EPA, ECHO Detailed Facility Report, Broadway Body Shop, December 28, 2012, Appendix I

EPA Region 8, email communication, June 12, 2012, Appendix F

U.S. Fish and Wildlife Service (USFWS), letter dated September 7, 2012, Appendix G

USFWS, Wetlands Online Mapper, National Wetlands Inventory Map, www.fws.gov/wetlands/Data/mapper.html

Appendices

(As required.)

All correspondence is included in the attached Appendices. Enclosures for all inquiries to agencies include the project location maps shown in **Appendix A**.

Appendix A: Project Location

Appendix B: Project Scope and Background

Appendix C: Historic Preservation
Appendix D: Floodplain Management
Appendix E: Wetland Protection
Appendix F: Sole Source Aquifers
Appendix G: Endangered Species Act
Appendix H: Farmland Protection Policy Act

Appendix I: Toxic Chemicals and Gases, Hazardous Materials, Contamination and Radioactive

Substances

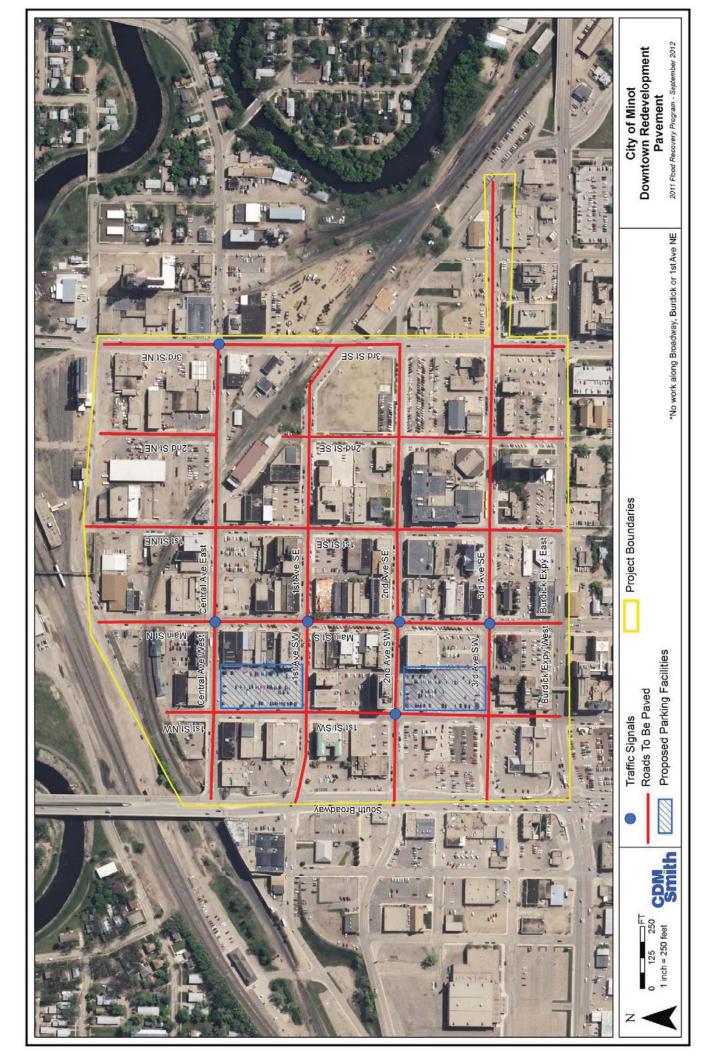
Appendix J: Airport Clear Zones & Accident Potential Zones

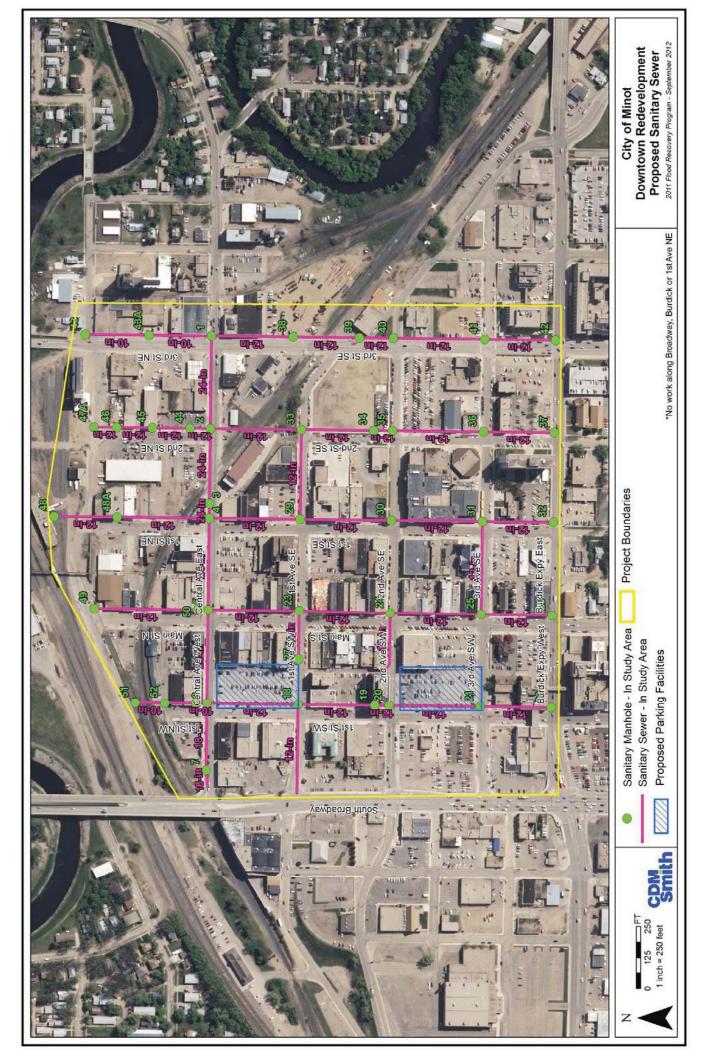
Appendix K: Soil Suitability
Appendix L: Health Care

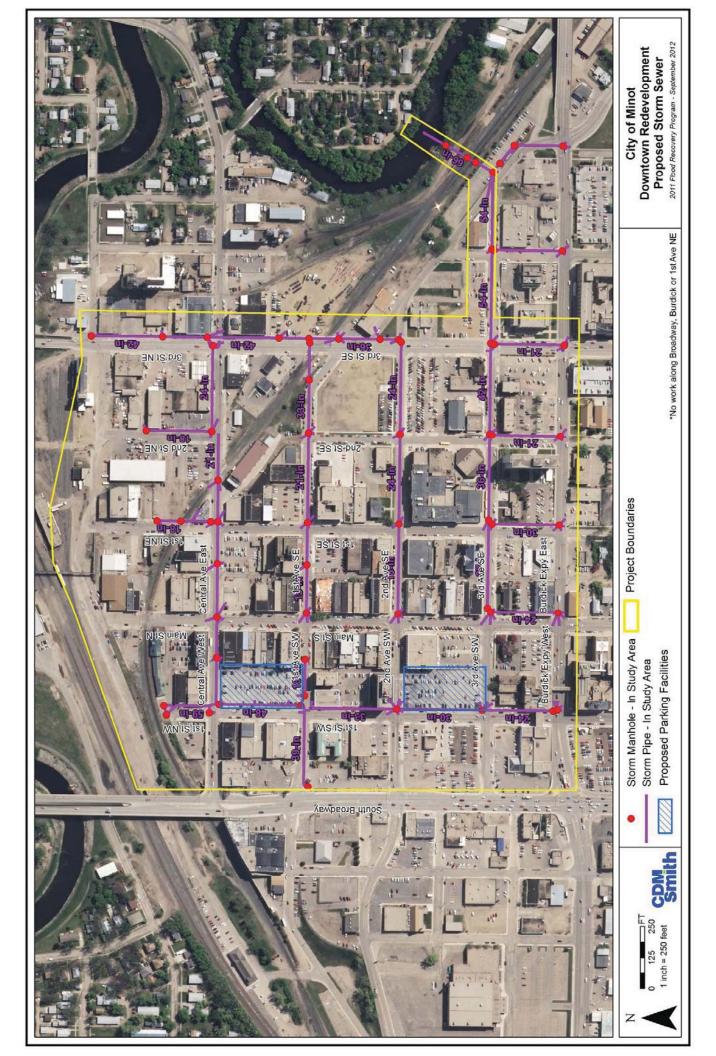
Appendix M: Open Space and Recreation

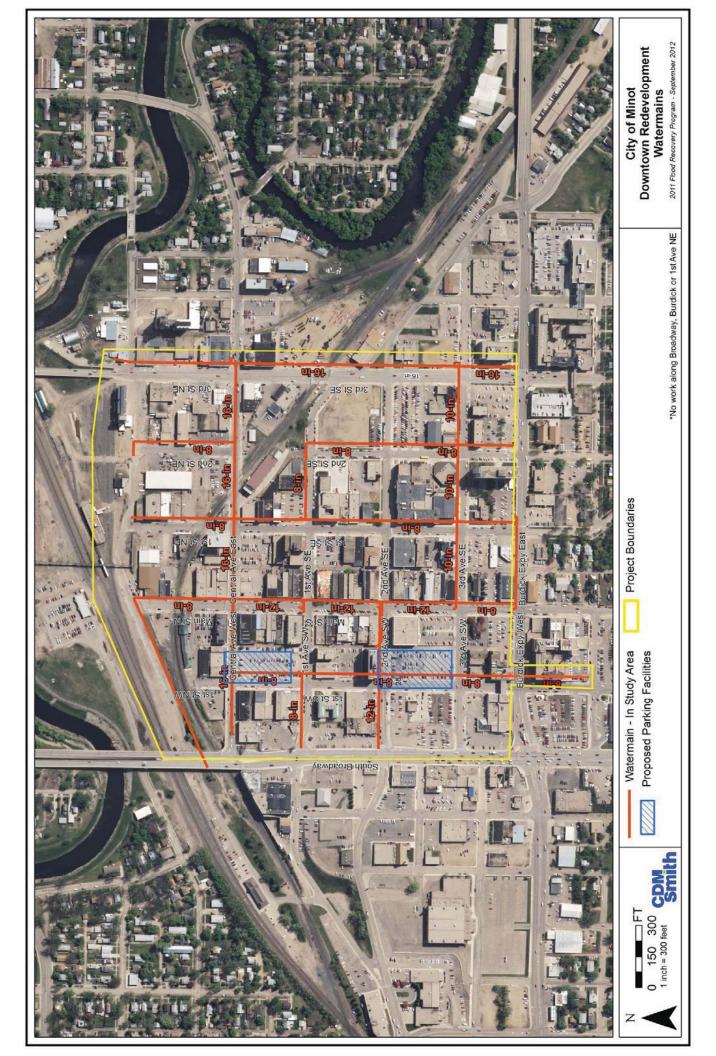
Appendix N: Transportation

Appendix A Project Location









NEPAssist: Print Map

Page 1 of 1



Proposed Project Location

Appendix B Project Scope and Background



Downtown Redevelopment Project Public Utility Infrastructure Improvements Preliminary Engineering Report

January 8, 2013

Table of Contents

Introduction	1
Section 1: Project Area	2
Section 2: Sanitary Sewer Collection System	
Section 3: Stormwater Drainage System	7
Section 4: Water Distribution System	14
Section 5: Street Lighting	16
Section 6: Paving and Traffic Signals	17
Section 7: Summary of Recommendations	19
Section 8: References	22

Appendices

Appendix A – Sanitary Sewer Improvements

Appendix B – Stormwater Drainage Improvements

Appendix C – Water Distribution Improvements

Appendix D – Street Lighting Improvements

Appendix E – Pavement and Traffic Signal Improvements



Introduction

An integral component of the City of Minot's long-term program to recover from the June 2011 flood includes restoration and recovery of the public infrastructure. Restoring the public infrastructure is essential to supporting continued public and private investments, future flood protection projects, and overall general economic development activities. The purpose of this preliminary engineering report is to document the needs and associated costs to restore and improve the public utilities in the Central Business District, including the sanitary sewage collection systems, stormwater drainage systems, water distribution systems, street lighting systems, and pavement within the City of Minot's Downtown redevelopment area. The study is intended to provide a preliminary engineering report for submittal to the U.S. Department of Commerce, Economic Development Administration for a grant application to assist with redevelopment and to specifically accomplish the following goals:

- Replace failed public infrastructure;
- Upgrade public infrastructure to be compatible with planned flood protection projects, as described in the <u>Mouse River Enhanced Flood Protection</u>, <u>Preliminary Engineering Report</u>, prepared by the North Dakota State Water Commission, February 29, 2012;
- Upgrade infrastructure to meet current capacity and condition requirements and standards, as defined by the City of Minot, the North Dakota State Water Commission, the North Dakota Department of Health, the North Dakota State Department of Transportation; and,
- Construct new infrastructure to support the Minot Comprehensive Plan in addition to current, active redevelopment projects within the project area.

The following sections detail the existing conditions, design parameters, assumptions, recommended improvements, and construction costs for each of the primary infrastructure systems: sanitary sewage collection, stormwater drainage, water distribution, street lighting and pavement replacement.

The project components described in this report are consistent with EDA investment project description that is provided in Section A.2 of form ED-900. The proposed method of procurement will be through competitive bid.



Section 1: Project Area

1.1 Project Area Description

The project area, as shown on Figure 1, represents a portion of the Minot Central Business District and adjacent manufacturing district bound by the following streets, listed clockwise:

- North/South Broadway
- Frontage Road/1st Avenue Northeast
- 3rd Street Northeast/Southeast
- Burdick Expressway

All public utility infrastructure within this area are included in this study, with the exception of those utilities located on the boundary streets of Frontage Road/1st Avenue Northeast, Broadway, and Burdick Expressway.

Land use in the area is generally commercial and industrial, corresponding with the primary zoning of the area being C-3 (Central Business District), and M-2 (Heavy Industrial District). Detailed zoning information is available on the Minot Central Business District Map and the Zoning Map, both available on the City of Minot's web page: (http://www.minotnd.org/index.php?option=com_content&view=article&id=11&Itemid=117).

1.2 Need for Improvements

Much of the infrastructure in the area was constructed in the early 1900's, according to the maps of record provided by the Minot Public Works Department. Improvements in the area occurred at many stages since this period of original construction, but none of the improvements were system-wide. Generally, the need for systemwide improvements at this time is supported by the following:

- Insufficient capacity for existing zoning and land uses;
- Insufficient capacity for future zoning and land uses; and,
- Deterioration of infrastructure.

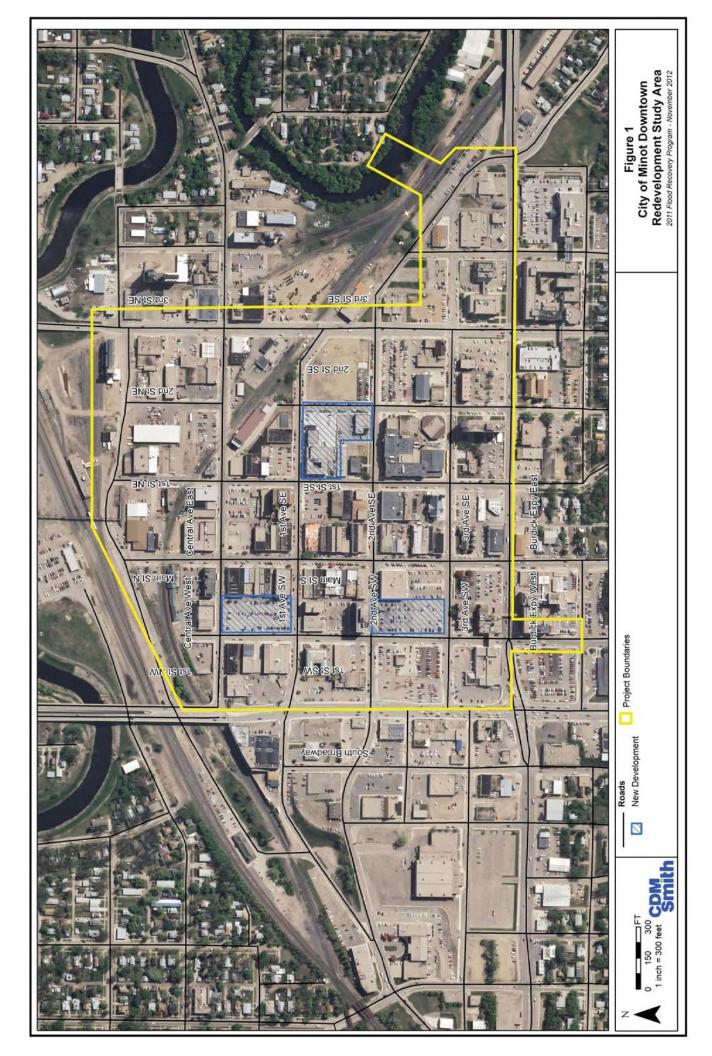
1.3 Project Cost Estimation

The project cost estimates for this study are prepared to a level of detail required for planning purposes. Unit prices were derived using recent construction bid data from the City of Minot, with supplemental information obtained from North Dakota Department of Transportation, CostWorks, and similar projects. Quantities are based on preliminary



designs, as described in the sections below. These cost estimates assume appropriate subsurface conditions, such as soil stability and depth to groundwater. Additional investigation during detailed design will be required to affirm these initial assumptions.





Section 2: Sanitary Sewer Collection System

2.1 Existing Conditions

Wastewater generally flows in the sanitary sewer collection system from south to north across the study area where it is collected along a trunk sewer located at Central Avenue and is conveyed to the east out of the study area. The majority of the existing pipe

consists of vitrified clay pipe (VCP) constructed in the early 1900's. Existing pipe diameter, slope, pipe material, and year built was obtained from record drawings provided by the Minot Public Works Department.

The existing VCP is cracked and damaged throughout the study area; representative photographs of the existing sanitary sewer adjacent to the study area are included in Appendix A of this report.



2.2 Design Requirements

Preliminary computations are included in the Appendix of this report. Major assumptions include:

- Upstream tributary flows are assumed to be 60% depth during peak flows;
- All sewers assumed to meet minimum grade criteria per 10-State Standards;
- A loading of 2,500 gallons per acre day was applied to most of downtown, with some parcels having a higher rate, including three proposed developments that would add 240 additional housing units; and,
- Peaking factors were based on 10-State Standards.

2.3 Recommended Improvements

In general, sanitary sewer capacity throughout the study area is adequate; however, the damaged vitrified clay pipe causes excessive inflow and infiltration that often overloads the sanitary sewers with clean water that enters the sewers through cracks and manholes. In addition, steep slopes in the sanitary sewers in the study area generate very high velocities that have scoured and eroded the vitrified clay pipe.



Due to these issues, and the poor condition of the existing VCP sewers, all sewers in the project area are recommended to be replaced and/or upsized, as required. Figure 2 shows the proposed sanitary sewer improvements in the study area. A detailed spreadsheet of pipe sizes and flows is included in Appendix A. All new sanitary sewers are proposed to be polyvinyl chlorine pipe (PVC), with the exception that cured-in-place pipe (CIPP) lining is proposed at railroad crossings and other areas that can't be open-cut

2.4 Cost Summary

Anticipated project costs include replacement of all sanitary sewers within the study area. The total cost of completing the sanitary sewer work is approximately \$2,013,299, as shown in Appendix A. This includes open-cut replacement of most sewers in the study area, and providing a structural liner in pipes crossing railroads and in a single block of 3rd Street (between 2nd Avenue SE and 3rd Avenue SE) that will not be reconstructed as a part of this project.



Section 3: Stormwater Drainage System

3.1 Existing Conditions

Generally there are three stormwater pipe networks within the project area. For the purpose of this analysis, the areas were titled according to the location of the existing outfall to the Mouse River:

- 1st Street NW/SW;
- 3rd Street NE/SE; and,
- 3rd Avenue SE.

Existing pipe diameter, slope, pipe material, and year built was obtained from record drawings provided by the Minot Public Works Department. The following general summaries describe the conditions in each of these pipe networks.

3.1.1 1st Street NW/SW

Information for the trunk storm sewer along 1st Street NW/SW was found in the record drawings. The entire pipe segment along 1st Street is constructed of 15-inch diameter VCP pipe (Vitrified Clay Pipe), of unknown construction date. Information for the tributary storm sewer piping was not available.

The drainage area for this network consists of the area between N/S Broadway and Main Street N/S, extending from the Mouse River to approximately 6th Avenue SW. The pipe network conveys the runoff from a commercial area south of Burdick that is outside the project area.

The *Mouse River Enhanced Flood Protection Preliminary Engineering Report* proposes to incorporate this stormwater pipe network into a new trunk storm sewer at the intersection of Frontage Road and 1st Street NW.

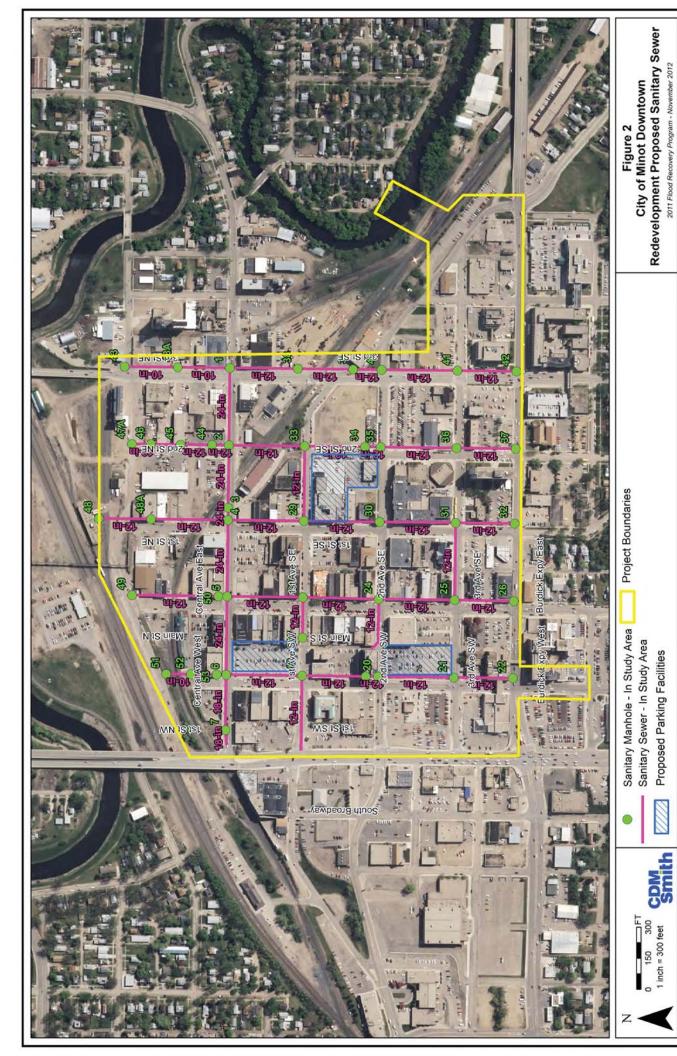
3.1.2 3rd Street NE/SE

Existing pipe diameters range from 10-inch to 36-inch. Materials consist of VSP (Vitrified Spent Pot-Liner), VP (Vitrified pipe – likely clay), and PCR of unknown construction date.

The drainage area is entirely within the study area, generally draining an area westerly of 3^{rd} Street NE/SE, north of 3^{rd} Avenue SE.

The Mouse River Enhanced Flood Protection Preliminary Engineering Report proposes to incorporate this stormwater pipe network into a new trunk storm sewer at the intersection of 1st Avenue NE and 3st Street NE.





3.1.3 3rd Avenue SE

Existing pipe diameters range from 15-inch to 54-inch. Materials consist primarily of VCP (Vitrified Clay Pipe), and one segment of concrete pipe. The pipe was constructed in 1922 and 1956.

This pipe network drains a corner of the study area, with the majority of the drainage area being southerly and easterly of the study area.

The *Mouse River Enhanced Flood Protection Preliminary Engineering Report* does not include any recommendations for the outlet of this storm sewer at the Mouse River.

3.2 Design Requirements

Preliminary computations were based on procedures set by the City of Minot *Storm Water Design Standards Manual*, published in July, 2002. The following detailed design information was based on the Manual procedures:

- Major Drainage System: Souris "Mouse" River;
- Minor System Design: 5-year storm event for commercial/industrial areas (rainfall = 2.5" per 24 hours);
- Rational Formula used to compute contributing flows;
- Equation 3.4 used to compute T_t (Time of Travel);
- Table 3.2 was used to determine n (roughness) = 0.011, assuming all surfaces are paved;
- Figure 3.1 was used to compute the peak intensity of a 5-year/24-hour return period rain event;
- Table 3.7 was used to determine C (runoff coefficient) = 0.85, based on an assumption that the area is commercial/industrial land use with Soil Group D (worst case); and,
- Minimum pipe velocity = 3 fps; Maximum pipe velocity = 20 fps; per Section 4.8.

The following assumptions were also used in the design computations:

- All segments designed to convey peak runoff without on-site rate controls that could be constructed to meet stormwater quality requirements;
- All segments have free-flowing conditions to new storm sewers proposed in *Mouse River Flood Protection Plan* (ND State Water Commission), Appendix B (sheet U-M-09);



- Pipe slopes are the same as original (in place) storm pipe;
- Max flow length computed along gutter plus 150 feet for typical flow path within block;
- Pipe sizing assumes no change in rate or volume of upstream contributing flows;
 and,
- Pipe diameter of downstream segment must be equal to or larger than the upstream pipe segment at each manhole to prevent debris from accumulation caused by pipe constrictions.

3.3 Recommended Improvements

Figure 3 shows the proposed storm sewer improvements in the study area. All proposed storm sewer piping will be reinforced concrete pipe (RCP).

3.3.1 Pipe Capacity Recommendations

An Excel spreadsheet, located in Appendix B, tabulates existing and proposed pipe information for each segment of storm sewer for each stormwater drainage network. Comparison of optimum pipe size against existing pipe size show that all segments of pipe are smaller than current design standards set by the City of Minot, with the most severe capacity restrictions in the 1st Street NW/SW network and the 3rd Street NW/SW network. The 3rd Avenue SE network is nominally undersized, and has the potential to be of sufficient capacity for existing conditions, but undersized for future changes in land use.

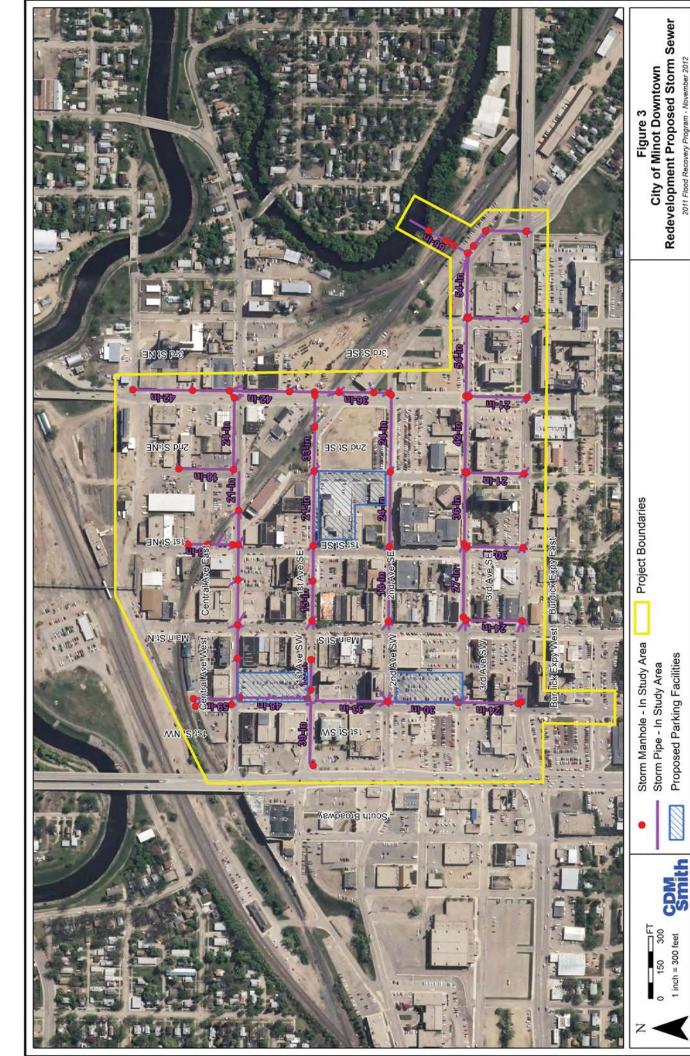


Table 3-1: Proposed Storm Sewer Improvements

Pipe ID		Location		Existing Storm Sewer	Proposed Storm Sewer
	Street	From	То	Diameter (in)	Diameter (in)
I-1	1st St NW	Frontage Rd	Central Ave		54
I-2	1st St SW	Central Ave	1st Ave SW	15	48
I-3	1st St SW	1st Ave SW	2nd Ave SW	15	36
I-4	1st St SW	2nd Ave SW	3rd Ave SW	15	30
I-5	1st St SW	3rd Ave SW	Burdick Expy	15	24
I-7	Central Ave	1st St NW/SW	Main	(1)	36
I-8	Central Ave	Main	1st St NE/SE	(1)	30
I-9	Central Ave	1st St NE/SE	2nd St NE/SE	(1)	21
I-10	1st St NE	Central Ave	(S of) 1st Ave NE	(1)	18
I-11	1st Ave SW	1st St SW	Broadway	(1)	42
I-16	1st Ave SW	1st St SW	Main	(1)	24
II-1	2nd St NE	Central Ave E	(S of) 1st Ave NE	10	18
II-3	Central Ave E	2nd St NE	3rd St NE	10	24
II-4	3rd St NE	1st Ave NE	Central Ave	36	42
II-5	3rd St NE	Central Ave E	1st Ave SE	24	24
II-6	1st Ave SE	2nd St SE	3rd St SE	10	36
II-7	1st Ave SE	1st St SE	2nd St SE	10	21
II-8	1st Ave SE	Main St N	1st St NE	10	15
II-9	3rd St NE	1st Ave SE	2nd Ave SE	18	36
II-10	2nd Ave SE	2nd St SE	3rd St SE	10	24
II-11	2nd Ave SE	2nd St SE	1st St SE	10	24
II-12	2nd Ave SE	1st St SE	Main St S	10	18
III-1	3rd Ave SE	Front	Mouse River	54	66
III-2	3rd Ave SE	4th St SE	Front St	48	54
III-3	3rd Ave SE	3rd St SE	4th St SE	36	54
III-4	3rd St SE	3rd Ave SE	Burdick Expy	15	21
III-6	3rd Ave SE	2nd St SE	3rd St SE	30	42
III-7	2nd St SE	3rd Ave SW	Burdick Expy	15	21
III-9	3rd Ave SE	1st St SE	2nd St SE	30	36
III-10	1st St SE	3rd Ave SW	Burdick Expy	24	30
III-12	3rd Ave SE	Main St S	1st St SE	18	27
III-13	Main St S	3rd Ave SW	Burdick Expy	18	24

Note: (1) Existing pipe size was unable to be verified





2011 Flood Recovery Program - November 2012

Proposed Parking Facilities

1 inch = 300 feet

3.3.2 Flood Enhancement Project Recommendations

The 3rd Avenue SE storm drainage network was not contained in the *Mouse River Enhanced Flood Protection Preliminary Engineering Report*. Additional study of the impacts of the increased Base Flood Elevation (BFE) at the outfall for this system should be determined and the impacts on the storm sewers assessed to determine if this system should be reconstructed to accommodate the change in BFE.

3.3.3 Additional Analysis

The Mouse River Enhanced Flood Protection Preliminary Engineering Report did not contain detailed information regarding the sizing and/or capacities of the recommended storm drain trunk line that is proposed to be constructed parallel to the Mouse River along Frontage Road, and 1st Avenue NE. As such, it is assumed that this trunk storm sewer and the tributary storm sewers analyzed in this study operate in free-flowing gravity conditions. If additional study finds that any of these storm sewers are operating in surcharged conditions, then a more detailed analysis of the entire network is necessary to assure that the resulting flows along the street are fully contained in the street gutters. If the flow is higher than the gutters, then the storm sewer pipes must be increased in capacity.

3.4 Cost Summary

Anticipated project costs include replacement and upsizing of all storm sewers within the study area. The total cost of completing the storm sewer work is approximately \$2,837,737, as shown in Appendix B. This includes open-cut replacement of most sewers in the study area, and direct jacking of all railroad crossings.



Section 4: Water Distribution System

4.1 Existing Conditions

The existing water main system is primarily feed through 12-inch water mains located in Central Avenue between Main Street and 3rd Avenue SE, 3rd Avenue SE, 2nd Avenue SE from Broadway to Main Street and Main Street from 2nd Avenue SE to Central Avenue. Most other water mains in the area consist of 6-inch and 8-inch mains.

4.2 Design Requirements

No modeling was completed for the water distribution system. Proposed improvements are needed to provide minimum trunk transmission sizing for adequate fire flows to the downtown area and to increase redundancy and looping within the system.

4.3 Recommended Improvements

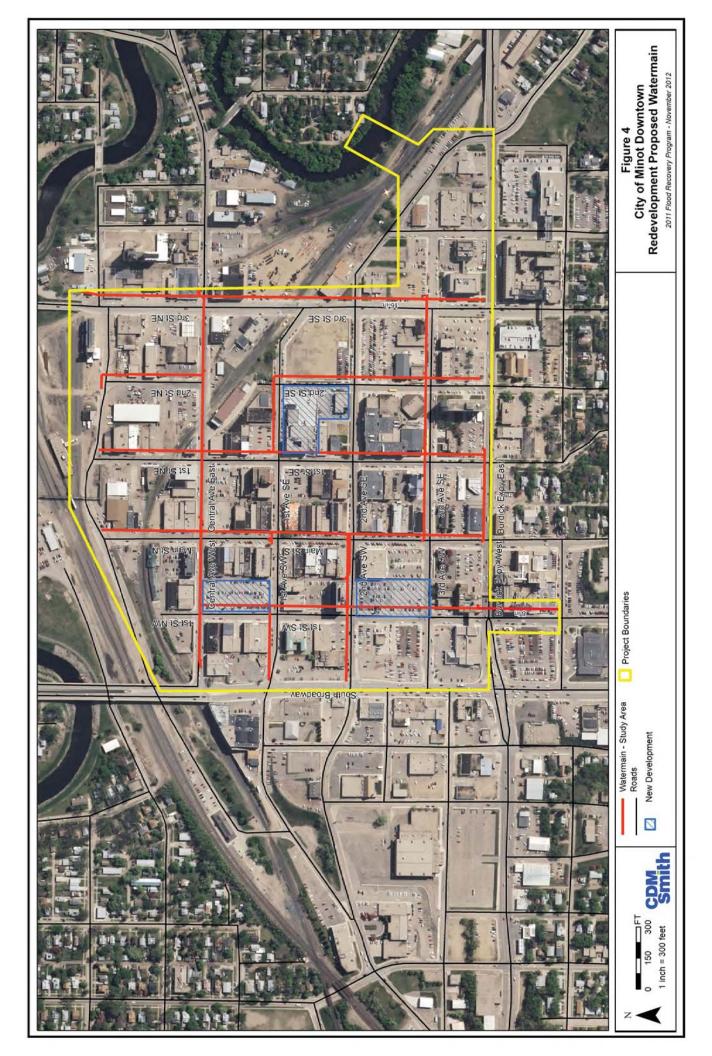
Figure 4 summarizes the recommended improvements to the water main system. Appendix C contains a detailed summary of the improvements. All proposed water main piping will be C-900 PVC. In general, the existing water distribution system within the study area lacks adequate looping of water mains to provide reliable fire protection and redundancy in the event that a key segment of water main is taken out of service. To improve water flows to the downtown district, it is recommended that the existing 8-inch and 12-inch waters main in Central Avenue and 3rd Street be increased to 16 inches in diameter.

To improve service and redundancy in the downtown district, it is recommended that all 6-inch water mains be increased to 8 inches in diameter. In addition, an additional segment of 8-inch water main needs to be to be constructed along 1st Street from Burdick Expressway south to 5th Avenue SE. This additional water main will help feed the downtown study area and improve circulation within the system. It should be noted that water system modeling should be completed during final design to affirm these proposed modifications.

4.4 Cost Summary

Anticipated project costs include replacement of all water mains within the study area. The total cost for completing the water main work is approximately \$2,846,878, as shown in Appendix C. This includes primarily open-cut construction, with pipe bursting on $3^{\rm rd}$ Street SE between $2^{\rm nd}$ and $3^{\rm rd}$ Avenue, and $1^{\rm st}$ Street SW between Burdick Expressway and $5^{\rm th}$ Avenue SE, and jacked crossings beneath all railroads.





Section 5: Street Lighting

5.1 Existing Conditions

The entire study area has a street lighting system built in various stages and with widely varying standards and needs to be upgraded to current codes and standards.

5.2 Design Requirements

Provide adequate lighting to enhance safety and security in the redeveloped downtown area. The design of all electrical and lighting systems shall be in conformance with the National Electrical Code, the National Electrical Safety Code, and North Dakota State Electrical Code.

LED type luminaires could provide potential energy reductions ranging from 50% to 70% over the current HPS system. Luminaire spacing would be typically between 150 and 200 feet depending on final design calculations. The use of LED street lighting is becoming increasingly popular and the costs have dropped dramatically in the last few years as more and more utilities are realizing the benefits of this technology.

5.3 Recommended Improvements

Roadway lighting is intended to produce quick, accurate, and comfortable seeing at night that will safeguard, facilitate, and encourage vehicular and pedestrian traffic. Good outdoor lighting can create and encourage a pedestrian friendly environment, which is especially beneficial to neighborhood business districts. Pedestrian lighting improves walkway illumination for pedestrian traffic and enhances community safety and business exposure. Lighting for pedestrians is especially important along main streets, mixed-use streets, and local connectors, and in other locations where the land use supports large volumes of pedestrians.

Downtown study area-wide improvements will require removal and replacement of existing lights and conduits throughout the downtown study area. Replacement of existing street lights and conduit with newer, more modern lights will provide a safer and more secure downtown, while minimizing future maintenance and energy costs. The proposed lighting plan recommends 228 lights in the downtown study area, with 130-foot spacing along streets.

5.4 Cost Summary

Anticipated project costs include replacement of all street lighting within the study area. The total cost of completing the street lighting work is approximately \$1,312,169, as shown in Appendix D.



Section 6: Paving and Traffic Signals

6.1 Existing Conditions

Primary traffic through the downtown study area is conveyed North and South along Broadway Avenue on the western limits of the study area. Primary east-west traffic occurs on the Burdick Expressway which represents the southern boundary of the study area. Six signalized intersections are located within the study area and are in need of upgrading due to the increased traffic expected to be generated by near-term and future redevelopment.

6.2 Design Requirements

All pavement, sidewalk, and curb and gutter was designed to replace existing pavement, as no changes to or within existing City right-of-way are proposed.

6.3 Recommended Improvements

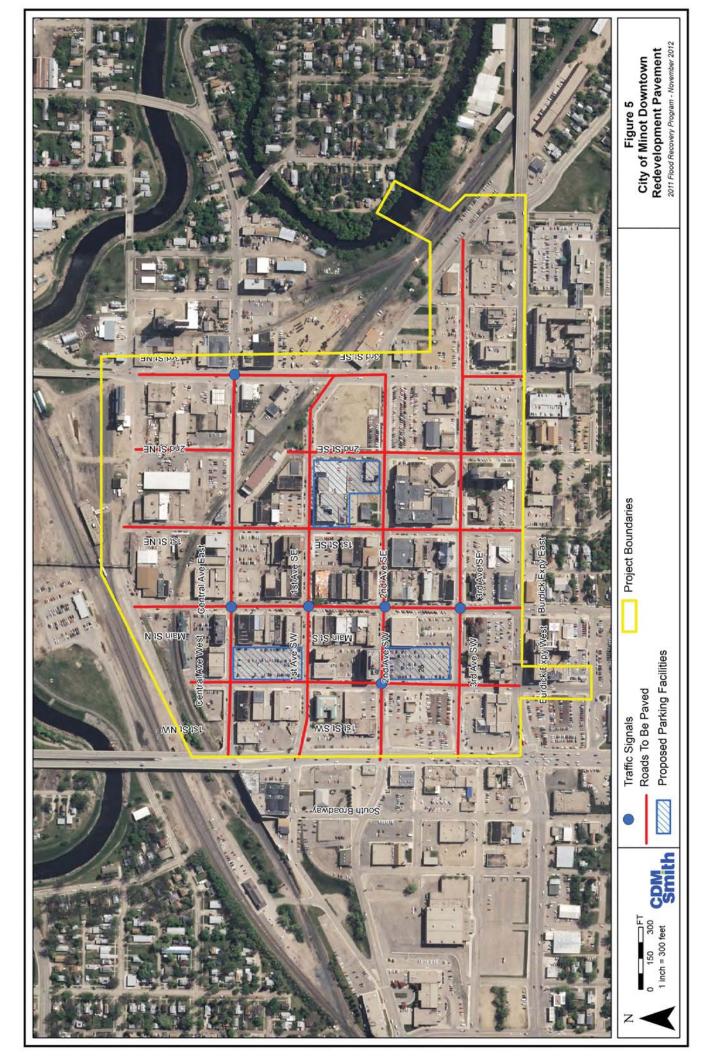
Figure 5 shows the streets that are recommended for repaving. Appendix E contains a detailed summary of the improvements. All of the streets within the study area are recommended to be replaced due to poor existing condition, or the need to replace the existing City utilities. Existing curb and gutter and sidewalks are severely damaged and uneven, which causes safety concerns.

All sidewalks and curb and gutter will also require replacement due to both existing condition and the need for complete utility replacement. The only segment of the study are not to be replaced is 3rd Street SE between 2nd Avenue SE and 3rd Avenue SE as all utility improvements in this street can be completed using primarily trenchless applications. A 20-foot wide segment of pavement and curb and gutter along 3rd Avenue SE, east of 3rd Street SE, also needs to be replaced to complete storm sewer improvements in the study area.

6.4 Cost Summary

Anticipated project costs include replacement of pavement, sidewalk, and curb and gutter within the study area. In addition, six signalized intersections and two signalized crosswalks will require replacement. The total cost for completing the paving work is approximately \$11,076,546, as shown in Appendix E.





Section 7: Summary of Recommendations

7.1 Cost Summary

Table 7-1 summarizes the proposed capital costs associated with the improvements. More detailed information can be found in the Appendix of this Report.

Table 7-1: Redevelopment of Downtown (Utility Costs)

Component	Cost
Water Main	\$ 2,846,878.11
Storm Sewer	\$ 2,837,736.86
Sanitary Sewer	\$ 2,013,299.03
Street Lighting	\$ 1,312,168.80
Paving, General Conditions and Traffic	\$ 11,076,546.04
Administration/Legal	\$ 70,000.00
Engineering	\$ 2,343,371.16
Total	\$ 22,500,000.00

7.2 List of Required Permits

The following permits are anticipated to be required for construction of the project:

- Construction General Permit NPDES/ND Department of Health
- Storm Water Pollution Prevention Plan/ND Department of Health
- CP Rail Utility Crossing Permit
- ND/DOT Utility/ROW Permit

Permitting for the railroad crossings will need to begin in 2013 to ensure 2014 construction.

7.3 Proposed Schedule

The design/project inspection services will be procured according to the U.S. Economic Development Administration Procurement Standards outlined in 15 CFR 24. It is anticipated that construction will be completed under four separate construction contracts, with preliminary areas of each contract shown in Figure 6. Actual construction contract boundaries will be determined during final design.



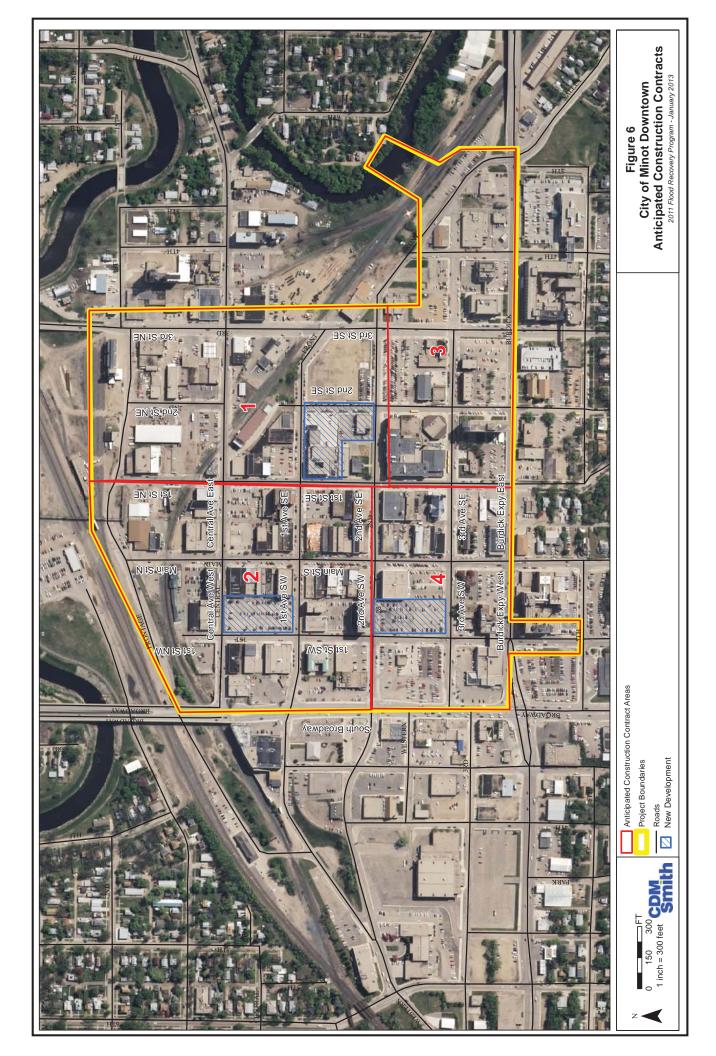


Table 7-2: Proposed Schedule

Task	Start	End	Duration
Consultant Selection	January 2013	April 2013	4 months
Design	May 2013	December 2013	8 months
Permitting	October 2013	December 2013	3 months
Easements/Rights-of-Way	-	-	N/A – obtained
Solicitation of Bids	January 2014	March 2014	3 months
Construction	April 2014	December 2015	21 months



Section 8: References

City of Minot, Storm Water Design Standards Manual, July 2002

North Dakota State Water Commission, *Mouse River Enhanced Flood Protection, Preliminary Engineering Report*, February 29, 2012



Appendix A: Sanitary Sewer Improvements



W. Lueck 07/27/12 Lueck Calc. By: Revision#:
Revised By:
Revised Date: Date: Calc. No.: William Lueck 11705-85182 07/27/12 Job # ____ Checked By: ____ Reviewed By: Date: Client: City of Minot
Project: Downtown Redevelopment
Detail: Utility Study - Sanitary Sewer Replacement

01/07/13

Summary of Costs for Full Sanitary Sewer Replacement in Minot Downtown Redevelopment District

Pay Item Description	Quantity	Unit of Measure Unit Price	Unit Price	Source of Unit Price	Total Cost	Cost
Mobilization/Bonding	_	rs	\$ 70,000.00	Prices Reflect Recent City Bid Results	↔	70,000
Remove Ex Maintenance Hole	35	EA	\$ 1,000.00	Prices Reflect Recent City Bid Results	S	35,000
Televise and Clean	12,364		\$ 3.00	Prices Reflect Recent City Bid Results	S	37,092
Pipe Bedding Material	9,674		\$ 20.00	Prices Reflect Recent City Bid Results	↔	193,480
Granular Borrow	10,000	_	\$ 12.00	Prices Reflect Recent City Bid Results	s	120,000
10-Inch PVC San Sewer	753		\$ 70.33	Prices Reflect Recent City Bid Results	↔	52,958
12-Inch PVC San Sewer	8,568		\$ 82.00		s	702,576
18-Inch PVC San Sewer	327	<u></u>	\$ 101.57	Prices Reflect Recent City Bid Results	s	33,213
24-Inch PVC San Sewer	1,236	5	\$ 145.57	Prices Reflect Recent City Bid Results	s	179,925
12" CIPP Liner 3rd St SE 2nd Ave to						
3rd Ave	330	4	\$ 60.00	John Schroeder	\$	19,800
12" CIPP Liner at 1st St NW and RR	150	4	\$ 60.00	John Schroeder	↔	9,000
12" CIPP Liner at Main St NW and						
RR	150	H	\$ 60.00	John Schroeder	↔	9,000
12" CIPP Liner at 1st St NE and RR	150	4	\$ 60.00	60.00 John Schroeder	↔	9,000
24" CIPP Liner at Central Ave E and						
RR	200	4	\$ 130.00	John Schroeder	↔	26,000
12" CIPP Liner at 2nd St SE and RR	300	4	\$ 60.00	John Schroeder	↔	18,000
12" CIPP Liner at 3rd St SE and RR	200	4	\$ 60.00	John Schroeder	↔	12,000
Maintenance Holes (8-foot Deep)	35		\$ 6,946.43	Prices Reflect Recent City Bid Results	S	243,125
Maintenance Holes (Extra Depth)	245	VLF	\$ 411.00	Prices Reflect Recent City Bid Results	↔	100,695
Pumping)	130	DAYS	\$ 500.00	Prices Reflect Recent City Bid Results		\$65,000
				CONSTRUCTION TOTAL 4% Contingency		\$1,935,864.45 \$77,434.58
				Subtotal		\$2,013,299.03

\$2,234,761.92 TOTAL

\$221,462.89

11% Engineering

City of Minot, Downtown Redevelopment Sanitary Sewer Analysis

Assumptions:

Upstream tributary flows assumed to be 60% depth during peak flows.

All sewers assumed to be at minimum grade per 10 States Standards

High sewer loadings were developed for three proposed projects and 1 existing building in downtown minot.

Sewers downstream of Central and 3rd Street have not been upsized to accommodate this flow.

A loading of 2,500 gallons per acre day was used for most of downtown.

In some cases is was difficult to determine which parcels were served by a certain branch of the sanitary sewer. In these cases the branch was kept the same size and the serving sewer was upsized.

Direction of flow was difficult to determine for N-S running sewers north of Central.

No sewers were downsized, but most did not increase in size.

No sewers were downsized, but most did not increase in size. Peaking factors are based on 10 State Standards

Sewer Improveme													
Pipe ID	Loca	ition				1	Existing S						
	From MH	To MH	Ex Diameter (in)	Length (ft)	Slope (ft/ft)	Area (Ac)	GPAD	Input Avg Q (mgd)	Routed Avg Q (mgd)	Peaking Factor	Peak Q (mgd)	Proposed Pipe Size	
12-inch boundary	innut		(111)					0.150	0.150	ractor	(Iligu)	ripe size	
57	42	41	12	276		1.55	2500	0.004	0.154	3.670	0.56	12	
56	41		12	357		2.00	2500	0.005	0.159	3.660	0.58	12	
10-inch boundary								0.110	0.269				
55	40		12	129		1.03	2500	0.003	0.271	3.440	0.93	12	
54 53	39 38		12 12	258 320		0.00	2500 2500	0.000	0.271 0.271	3.440 3.440	0.93	12	Flows out of system at Central
33	30	1	12	320		0.00	2300	0.000	0.271	3.440	0.55	12	riows out or system at central
51	43	43A	10	248		3.10	2500	0.008	0.008	3.860	0.03	10	
52	43A	1	10	242		0.00	2500	0.000	0.008	3.860	0.03	10	Flows out of system at Central
12-inch boundary	input 37	26	12	276		1.55	6250	0.150 0.010	0.150	2.000	0.50	12	
50 49	36		12 12	276 357		1.55 2.10	2750	0.010	0.160 0.165	3.660 3.650	0.58	12 12	
48	35		12	66.7		2.10	8750	0.018	0.184	3.620	0.67	12	
47	34		12	283		0.00	2500	0.000	0.184	3.620	0.67		Flows into Pipe 45
46	29		12	352		0.00	2500	0.000	0.000			12	L
45	33	2	12	357		1.03	2500	0.003	0.186	3.600	0.67	12	Flows into Pipe 1
40	47	47A	12	177.9		3.10	2500	0.008	0.008	3.860	0.03	12	
41	47A		12	83.9		5.10	2500	0.000	0.008	3.860	0.03	12	
42	46		12	134			2500	0.000	0.008	3.860	0.03	12	
43	44		12	144			2500	0.000	0.008	3.860	0.03	12	
44	44	2	12	72.9			2500	0.000	0.008	3.860	0.03	12	Flows into pipe 1
12-inch boundary	innut							0.150	0.150				
12-inch boundary		31	12	276		1.55	2500	0.150	0.150	3.670	0.56	12	
33	J 32	31	12	270		1.55	2550	0.004	0.134	3.070	0.50	"	
38	25		12	364		0.00	2500	0.000	0.154	3.670	0.56	12	
37	31		12	357		2.07	2750	0.006	0.160	3.660	0.58	12	
36	30		12	357		2.07	5625	0.012	0.171	3.640	0.62	12	
35	29	4	12	357		2.07	2500	0.005	0.176	3.620	0.64	12	Flows into pipe 3
33	48	48A	12	245			2500	0.000	0.000			12	
34	48A	4	12	362		2.40	2500	0.006	0.006	3.930	0.02		Flows into Pipe 3
													· ·
12-inch boundary								0.150	0.150				
32	26		12	277		1.55	2500	0.004	0.154	3.680	0.57	12	
31	25	24	12	357		2.07	2500	0.005	0.159	3.660	0.58	12	
30	28	24	12	248		0.00	2500	0.000	0.000			12	
29	24	23	12	358		2.07	2500	0.005	0.164	3.650	0.60	12	
28	27	23	12	186		0.00	2500	0.000	0.000			12	
27	23	5	12	357		2.07	2500	0.005	0.169	3.640	0.62	12	Flows into pipe 4
	2.5	,	12	337		2.07	2300	0.003	0.103	3.040	0.02	12	nows into pipe 4
26	50	49	12	407		1.29	2500	0.003	0.003	4.000	0.01	12	Flows out tofirst
12-inch boundary								0.150	0.150				
25 24	22 21		12 12	276 357		1.55 2.07	2750	0.004 0.029	0.154 0.184	3.670 3.610	0.57	12 12	
23	20		12	49.9		2.07	14250 2500	0.029	0.189	3.600	0.66	12	
22	19		12	299		0.00	2500	0.000	0.189	3.600	0.68	12	
21	11	18	12	357			2500	0.000	0.000			12	
20	18		12	357		2.07	14250	0.029	0.218	3.590	0.78		Flows into nino F
20	18	6	12	35/		2.07	14250	0.029	U.218	3.590	0.78	12	Flows into pipe 5
17	51	52	10	110			2500	0.000	0.000			10	
18	52		10	115			2500	0.000	0.000			10	
19	53	6	10	37.5		0.40	2500	0.001	0.001	4.000	0.00	10	Flows into pipe 5
						- 1	-						
12-inch boundary	input 17	16	18	98.2		1.07	2875	0.150 0.003	0.150 0.153	3.680	0.50		Not included in area
16 18-inch boundary		16	18	98.2		1.07	28/5	0.003	0.153	3.680	0.56		INOL IIICIUUEU III area
15		15	18	96.9		0.57	2500	0.001	0.500	3.250	1.62		Not included in area
14	15	14	18	147		1.03	2500	0.003	0.502	3.250	1.63		Not included in area
13	14		18	144		0.29	2500	0.001	0.503	3.250	1.63		Not included in area
12	13		18			1.26	2500	0.003	0.506	3.250	1.64		Not included in area
11 10	12 11		18 18			0.57	2500 2500	0.001	0.507 0.507	3.250 3.250	1.65 1.65		Not included in area Not included in area
12-inch boundary		10	18	50.9		0.00	2500	0.000	0.507	3.230	1.05		Not included in area
9	10	9	18	117		1.03	2500	0.003	0.660	3.130	2.07		Not included in area
	9	8	18	116		0.00	2500	0.000	0.660	3.130	2.07		Not included in area
7	8		18			0.00	2500	0.000	0.660	3.130	2.07	18	
6	7		18	259		0.52	2500	0.001	0.661	3.130	2.07	18	
5	6		20	369			2500	0.000	0.881	3.000	2.64	24	
3	5 4		24 24				2500 2500	0.000	1.050 1.232	2.930 2.870	3.08	24 24	
2	3		24	293			2500	0.000	1.232	2.870	3.54	24	
							2500	0.000	1.426	2.810	4.01	24	

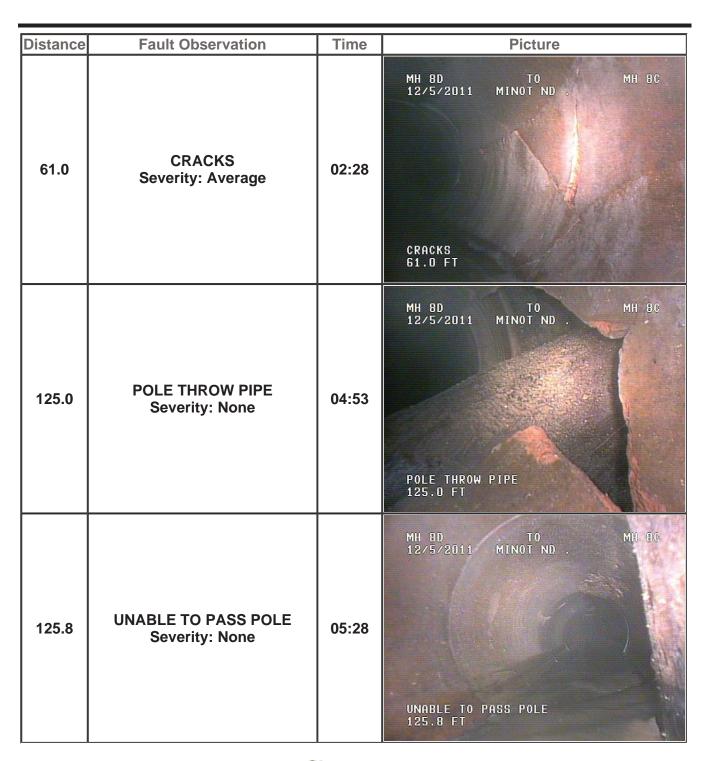
LOCATION: MINOT ND.

DATE: 12/5/2011 LOCATION: MINOT ND.

Distance: 0

PROJECT NAME: MINOT AREA C RUN 8

START MH NUMBER: 8D END MH NUMBER: 8C FLOW DIRECTION: SOUTH



Created with the PDSM report generator

LOCATION: MINOT ND.

DATE: 12/7/2011 LOCATION: MINOT ND.

Distance: 0

PROJECT NAME: MINOT AREA B RUN 20

START MH NUMBER: 5 END MH NUMBER: 6 FLOW DIRECTION: EAST

Distance	Fault Observation	Time	Picture
23.3	CRACKS Severity: Moderate	01:06	MH 5 TO MH 6 12/7/2011 MINOT ND . CRACKS 23.3 FT
35.3	ROOTS Severity: Light	01:35	MH 5 TO MH 6 12/7/2011 MINOT ND . ROOTS 35.3 FT
75.6	CRACKS Severity: Light	02:41	MH 5 TO MH 6 12/7/2011 MINOT ND . CRACKS 75.6 FT

Distance	Fault Observation	Time	Picture
93.9	LATERAL RIGHT Position: 12 Severity: None	03:16	MH S TO MH 6 12/7/2011 MINOT ND . LATERAL RIGHT 93.9 FT
135.2	LATERAL LEFT Position: 12 Severity: None	04:21	MH 5 TO MH B 12/7/2011 MINOT ND LATERAL LEFT 135.2 FT
136.4	ROOTS Severity: Light	04:44	MH 5 TO MH 6 12/7/2011 MINOT ND . ROOTS 136.4 FT

Distance	Fault Observation	Time	Picture
194.5	LATERAL LEFT Position: 12 Severity: None	06:17	LATERAL LEFT 194.5 FT
197.4	LATERAL LEFT Position: 12 Severity: None	06:34	MH 5 TO MH 6 12/7/2011 MINOT ND . LATERAL LEFT 137.4 FT
230.7	LATERAL LEFT Position: 11 Severity: None	07:38	MH 5 TO MH 6 12/7/2011 MINOT ND . LATERAL LEFT 230.7 FT

Distance	Fault Observation	Time	Picture
244.0	CHANGE TO PVC Severity: None	08:05	MH 5 10 MINOT (N) . CHANGE TO PVC 244.0 FT
248.9	END INSPECTION Severity: None	08:33	MH 5 TO MH 6 12/7/2011 MINOT ND . END INSPECTION 248.9 FT

Created with the TPDSM report generator

Appendix B: Storm Water Drainage Improvements



Client: City of Minot
Project: Downtown Redevelopment
Detail: Utility Study - Storm Sewer Replacement

 Job #
 11705-85182
 Calc. By:
 J. Polzin

 Checked By:
 Date:
 07/27/12

 Reviewed By:
 William Lueck
 Revised By:
 William Lueck

 Date:
 07/27/12
 Revised By:
 William Lueck

 Revised Date:
 11/07/12

Summary of Costs for Full Storm Sewer Replacement in Minot Downtown Redevelopment District

Pay Item Description	Quantity	Unit of Measure Unit Price	Unit Price	Source of Unit Price	Tota	Fotal Cost
Mobilization/Bonding	_	ΓS	\$ 85,000.00	Prices Reflect Recent City Bid Results	↔	85,000.00
Remove Ex Maintenance Hole	58	EA	\$ 1,000.00	Prices Reflect Recent City Bid Results	↔	58,000.00
Remove Existing Catch Basin	110	EA	\$ 500.00	Prices Reflect Recent City Bid Results	↔	55,000.00
Remove Existing Pipe	12,486	ч	\$ 12.00	Prices Reflect Recent City Bid Results	↔	149,832.00
15" RCP Storm Sewer	3,067	ч	\$ 50.57	Prices Reflect Recent City Bid Results	↔	155,098.19
18" RCP Storm Sewer	669	ч	\$ 56.93	Prices Reflect Recent City Bid Results	↔	39,794.07
21" RCP Storm Sewer	1,035	5	\$ 61.64	Prices Reflect Recent City Bid Results	↔	63,797.40
24" RCP Storm Sewer	2,465	5	\$ 66.36	Prices Reflect Recent City Bid Results	↔	163,577.40
27" RCP Storm Sewer	330	5	\$ 74.96	Prices Reflect Recent City Bid Results	↔	24,736.80
30" RCP Storm Sewer	820	ч	\$ 83.57	Prices Reflect Recent City Bid Results	↔	71,034.50
36" RCP Storm Sewer	1,324	ч	\$ 109.43	Prices Reflect Recent City Bid Results	↔	144,885.32
42" RCP Storm Sewer	1168	5	\$ 140.71	Prices Reflect Recent City Bid Results	↔	164,349.28
48" RCP Storm Sewer	348	5	\$ 165.00	Prices Reflect Recent City Bid Results	↔	57,420.00
54" RCP Storm Sewer	1000	5	\$ 205.57	Prices Reflect Recent City Bid Results	↔	205,570.00
66" RCP Storm Sewer	200	5	\$ 310.00	Prices Reflect Recent City Bid Results	↔	62,000.00
1st St NE and RR Direct Jack 36"	150	느	\$ 500.00	Prices Reflect Recent City Bid Results	₩	75,000.00
Central Ave E and RR Direct Jack 36"	200	느	\$ 500.00	Prices Reflect Recent City Bid Results	↔	100,000.00
1st Ave SW and RR Direct Jack 36"	150	4	\$ 500.00	Prices Reflect Recent City Bid Results	↔	75,000.00
3rd St SE and RR Direct Jack 36"	200	5	\$ 500.00	Prices Reflect Recent City Bid Results	↔	100,000.00
3rd Ave SE and RR Direct Jack 66"	200	느	\$ 1,000.00	Prices Reflect Recent City Bid Results	↔	200,000.00
Maintenance Hole	58	EA	\$ 7,500.00	Prices Reflect Recent City Bid Results	↔	435,000.00
2x3 Catch Basin	110	EA	\$ 2,700.00	Prices Reflect Recent City Bid Results	↔	297,000.00

TOTAL \$3,149,887.91

\$2,782,094.96 \$55,641.90 \$2,837,736.86

CONSTRUCTION TOTAL
2% Contingency
Subtotal

\$312,151.05

11% Engineering

Minot Downtown Utilities Upgrade Storm Sewer Preliminary Design 7-Nov-12

* Based on My 202 Storm Water Delign Standards Manual

* Major Denings System: Souris* Mouse* River and the Manual

* Major System Souris* Mouse* River Commercial / Industrial areas (ranfall = 2.5* per 24 hours)

** Use Relaxional Formals - based on NRS T7-149

** Use Replacinal Formals - based on NRS T7-149

** Use Replacinal Formals - based on NRS T7-149

** Use Replacinal Formals - based on NRS T7-149

** Use Replacinal Formals - based on NRS T7-149

** Use Replacinal Formals - based on NRS T7-149

** Use Replacinal Formals - based on NRS T7-149

** As agreement September for compression and the Replacinal Formals - based on NRS T7-149

** As agreement September for Commercial Formals - based on NRS T7-149

** As agreement September for Commercial Formals - based on NRS T7-149

** As agreement September for Commercial Formals - based on NRS T7-149

** As agreement September for September for September Formals - based Relaxional Formals - based Relax

VSP PCR

		,																																			
NOTES		recommend lower slope to reduce in-pipe velocity	recommend lower slope to reduce in-pipe velocity				outside project area - included for upstream flow							outside project area - included for upstream flow	outside project area - included for upstream flow	outside project area - included for upstream flow	outside project area - included for upstream flow			NOTES			To be replaced with Flood Protection Project			Upsize to one size larger than upstream pipes			use surface slope for places size	and add to add an age and				NOTES			
	#CBs	3	4	2	2	3			2	4 1	ς.	4	0					2			#CBs	3		3	e	4 (7 4	. 00	9	2	2	9			#CBs	2	
	#WHs	2	2	1					2	2	× •	1	0					2			#WHs	2		1	2	2 ′	7		4	-	-	2			#WHs	4	
Pipe Info	Length (ft)	300	348	366	240	586			360	360	380	7.577	360					300		Pipe Info	Length (ft)	275		320	480	200	375	317	350	353	396	358		Pipe Info	Length (ft)	320	
Pipe	Vpipe (fps)	26.72956	25.45744	15.07538	15.27495	3.818616			12.72984	11.4053	7.344533	7.344033	14.72557					15.92357		Pip	Vpipe (fps)	4.4		6.8	9.1	24.2	13.3	12.2	10.2	15.9	13.4	11.3		Pip	Vpipe (fps)	18.52	
	Qpipe (cfs)	425	320	06	75	48			06	22	57	13	110					20			Qpipe (cfs)	7.8		28	88	9/2	32	15	72	25	42	20			Qpipe (cfs)	440	
	Dia. (in)	54	L	36	30	24				30	17	70	42					24			Dia. (in)	18		24	42	24	21	15	36	24	24	18			Dia. (in)	99	
	Qinflow (cfs)	359.689	-	78.741	63.492	47.764	30.036		80.294	57.252	23.042	11.109	112.881	98.595	75.554	52.512	23.182	44.825			Qinflow (cfs)	7.919		21.346	89.013	75.585	31.860	15.728	61.299	47.992	31.860	15.728			Qinflow (cfs)	371.970	
	Pipe Segment	1+2+7	2+3+11+16	3+4	4+5	2+6	9		7+8	8+9+10	6	OT	11+12	12+13	13+14	14+15	12	16			Pipe Segment	1		1+3	2+3	9+6	8+7	00	10+9	11+10	12+11	12			Pipe Segment	1+2+18	
	Q (cfs)	26.309	16.639	15.249	15.728	17.728	30.036		23.042	23.042	23.042	11.109	14.286	23.042	23.042	29.330	23.182	44.825			Q (cfs)	7.919	-	13.428	13.428	14.286	16.132	15.728	13.308	16.132	16.132	15.728			Q (cfs)	10.546	
	A (acres)	5.000	3.100	3.100	3.100	3.100	6.200		5.000	5.000	5.000	7.500	3.100	5.000	5.000	5.000	5.000	10.000			A (acres)	1.500	-	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100	3.100			A (acres)	2.020	
Comps	U	0.850	0.850	0.850	0.850	0.850	0.850		0.850	0.850	0.850	0.650	0.850	0.850	0.850	0.850	0.850	0.850		Comps	Ú	0.850		0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850		Comps	U	0.850	
Rational Formula Comps	-	6.190	6.315	5.787	5.969	6.728	5.699		5.422	5.422	5.422	3.230	5.422	5.422	5.422	6.901	5.455	5.274		Rational Formula Comps	-	6.211		960'5	5.096	5.422	5.422	5.969	5.050	6.122	6.122	5.969		Rational Formula Comps	-	6.142	
Ration	Tc (min)	3.076	2.905	3.736	3.417	2.420	3.904		4.509	4.509	4.509	4.353	4.509	4.509	4.509	2.249	4.430	4.883		Ration	Tc (min)	3.047		5.390	5.390	4.509	3.176	3.417	5.531	3.176	3.176	3.417		Ration	Tc (min)	3.147	
	Tc (hours)	0.051	0.048	0.062	0.057	0.040	0.065		0.075	0.075	0.075	0.062	0.075	0.075	0.075	0.037	0.074	0.081			Tc (hours)	0.051		0.090	060'0	0.075	0.053	0.057	0.092	0.053	0.053	0.057			Tc (hours)	0.052	
	S (surface slope)	0.033	0.038	0.020	0.025	0.033	0.028		0.013	0.013	0.013	0.010	0.013	0.013	0.013	0.040	0.040	0.004				0.013		0.008	0.008	0.013	0.030	0.025	0.008	0.030	0.030	0.025			S (surface	0.012	
	n (roughness)	0.011	0.011	0.011	0.011	0.011	0.011		0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011			n (roughness)	0.011		0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011			n (roughness)	0.011	
	L (flow	400	400	400	400	300	200		400	400	400	400	400	400	400	300	700	250			(flow	250		400	400	400	400	400	400	400	400	400			(flow	250	ŀ
	Year Built																				Year Built														Year Built	1956	ľ
	Q (cfs)																				Q (cfs)	1.6	1.7	1.6	47.2	1.7	3.8			4	3.5	3.5			Q (cfs)		
ewer	v (fps)																			ewer	v (fps)	2.4	3.2	3	6.7	c	6.8			7.4	6.4	6.4		ewer	v (fps)		
Existing Storm Sewer	Material				VCP	VCP	VCP													Existing Storm Sewer	Material		VSP	VSP (?)	PCR	PCR	\$	-	PCR					Existing Storm Sewer	Material	Concrete	
Exist	Pipe Slope (ft/ft)		0.01	0.024	0.0394	0.089	0.0852				7100	4TO'O								Exist	Slope (ft/ft)	0.0036	0.0063	0.0057	0.0052	0.08	0.0293	0.037	0.008	0.0348	0.0251	0.0246		Exist	Slope (ft/ft)	ć	
	Length (ft)		348	366	240	286	340				246.7	7.577									Length (ft)	275	400	350	480	230	375	317	350	353	366	358			Length (ft)	320	
	Diameter (in)		15	15	15	15	12														Diameter (in)	10	10	10 (?)	38	24	10	10	18	10	10	10			Diameter (in)	22	
	Map Reference		ſ	_	-	-	-		na	na	eu -	-	na	eu	na	na	na	na			Map Reference	×	×	×	٧	B 5	S-1	S-2		-	-	L			Map Reference	I	
uo.	D.	Central Ave	1st Ave SW	2nd Ave SW	3rd Ave SW	Burdick Expy	5th Ave SW		Main	1st St NE/SE	2 nd St NE/SE	(5 OT) 1St AVE INC	Broadway	2nd Ave SW	3rd Ave SW	Burdick Expy	5th Ave SW	Main		ion	٥	(S of) 1st Ave NE	3rd St NE	3rd St NE	Central Ave	1st Ave SE	2nd St SF	1st St NE	2nd Ave SE	3rd St SE	1st St SE	Main St S		uo	ъ	Mouse River	
Location	From	Frontage Rd	Central Ave	1st Ave SW	2nd Ave SW	3rd Ave SW	Burdick Expy	-	ä	Main	Test St NE/ SE	+	1st St SW	1st Ave SW	2nd Ave SW	3rd Ave SW	Burdick Expy	1st St SW		Location	From	Central Ave E	2nd St NE	2nd St NE	1st Ave NE	Central Ave E	1st St SE	Main St N	1st Ave SE	2nd St SE	2nd St SE	1st St SE	· System	Location	From	Front	
	Street	1st St NW	1st St SW	1st St SW	1st St SW	1st St SW	1st St SW		Central Ave	Central Ave	Central Ave	TSUSU NE	1st Ave SW	Broadway	Broadway	Broadway	Broadway	1st Ave SW	3rd St NE/SE Storm Sewer System		Street	2nd St NE	1st Ave NE	Central Ave E	3rd St NE	3rd St NE	1st Ave SE	1st Ave SE	3rd St NE	2nd Ave SE	2nd Ave SE	2nd Ave SE	1rd Ave SE/SW Storm Sewer System		Street	3rd Ave SE	
Pipe ID		1.1	1-2	1-3	7	-5	9-1		1-7	9	6	OT-I	1-11	1-12	1-13	1-14	1-15	1-16	d St NE/Si	Pipe ID		1:1	11-2	1.3	7	5-1	-1	8-	6-11	11-10	111	II-12	d Ave SE/	Pipe ID		111	ĺ

			outside project area - included for upstream flow	recommend lower slope to reduce in-pipe velocity		outside project area - included for upstream flow	recommend lower slope to reduce in-pipe velocity	recommend lower slope to reduce in-pipe velocity	outside project area - included for upstream flow			outside project area - included for upstream flow	outside project area - included for upstream flow	outside project area - included for upstream flow	outside project area - included for upstream flow	outside project area - included for upstream flow	
	0	4		2	2		3	-1		2	4						
	1	2		1	1		2	1		1	1						
	384	250		368	250		300	250		330	250				-	-	
	20.75	15.83333		21.30977	15.83333		22.63083	20.3666		16.33166	16.56051						
	330	38		205	38		160	100		99	52						
	54	2.1		42	2.1		36	30		27	2.4				-	-	
	255.507	36.462	22.000	204.583	35.917	21.000	153.750	89.917	75.000	63.833	48.917	34.000			-	-	
	3+4+6	5+4	2	7+8+9	8+7	80	10+9+13	11+10	11	13+12	14+13	14					
	14.462	14.462	14.917	14.917	14.917	14.917	14.917	14.917	14.917	14.917	14.917	14.917					
	2.940	2.940	2.940	2.940	2.940	2.940	2.940	2.940	2.940	2.940	2.940	2.940					
	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850					
	5.787	5.787	5.969	5.969	5.969	5.969	5.969	5.969	5.969	5.969	5.969	5.969					
	3.736	3.736	3.417	3.417	3.417	3.417	3.417	3.417	3.417	3.417	3.417	3.417					
	0.062	0.062	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057					
	0.020	0.020	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025					
	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011					
_	400	400	400	400	400	400	400	400	400	400	400	400					
	1956	1922	1922	1956	1922	1920	1922	1922		1922		1922	1922	1922	1922	1922	
			22			21			75			34	54	63	19	28	
	VCP	VCP	PCR	VCP	ACP	VCP	VCP	VCP	VCP	VCP	VCP	VCP	VCP	VCP	VCP	VCP	
	0.033	0.037	80.0	0.028	0.04	0.0725	0.033	0.034	0.083	0.0303	0.0379	720.0	0.041	0.054	0.024	0.051	
	384	250	350	368	250	355	300	250	337	330	250	350	250	350	300	350	
	36	15	15	30	15	15	30	54	54	18	18	18	24	54	18	18	
	I	z	F/N	Ŧ	Z	-	z	z	а	z	M	z	Z	z	Z	Z	
	4th St SE	Burdick Expy	5th Ave SE	3rd St SE	Burdick Expy	5th Ave SE	2nd St SE	Burdick Expy	5th Ave SE	1st St SE	Burdick Expy	5th Ave SE	Burdick Expy	5th Ave SE	Burdick Expy	5th Ave SE	
	3rd St SE	3rd Ave SE	Burdick Expy	2nd St SE	3rd Ave SW	Burdick Expy	1st St SE	3rd Ave SW	Burdick Expy	Main St S	3rd Ave SW	Burdick Expy	3rd Ave SW	Burdick Expy	3rd Ave SW	Burdick Expy	
	3rd Ave SE	3rd St SE	3rd St SE	3rd Ave SE	2nd St SE	2nd St SE	3rd Ave SE	1st St SE	1st St SE	3rd Ave SE	Main St S	Main St S	4th St SE	4th St SE	5th St SE	5th St SE	
	1113	=	III-5	9111	111-7	8-111	6111	111-10	11-11	111-12	111-13	111-14	111-115	111-16	111-17	111-18	

Appendix C: Water Distribution System Improvements



T. Archer 07/27/12 Date: Calc. By: Calc. No.: Revision#: William Lueck 11705-85182 Date: Reviewed By: Checked By: # qo[Project: Downtown Redevelopment
Detail: Utility Study - Watermain Replacement Client: City of Minot

11/07/12 Lueck

Revised Date:

Revised By:

07/27/12

Date:

Summary of Costs for Full Water Main Replacement in Minot Downtown Redevelopment District

		Unit of					
Pay Item Description	Quantity	Measure	-	Unit Price	Source of Unit Price	P	Total Cost
Mobilization/Bonding	_	rs	↔	90,000,06	Prices Reflect Recent City Bid	↔	90,000
Granular Borrow	2,000	ζ	↔	12.00	Prices Reflect Recent City Bid	↔	60,000
Temporary Services	160	EA	↔	1,000.00	Prices Reflect Recent City Bid	↔	160,000
Testing And Disinfection		rs	↔	50,000.00	Prices Reflect Recent City Bid	↔	50,000
8" C-900 Water Main	7,445	Ľ	↔	65.00	Prices Reflect Recent City Bid	↔	483,925
10" C-900 Water Main	1,150	느	↔	85.00	Prices Reflect Recent City Bid	↔	97,750
12" C-900 Water Main	1,855	Ľ	↔	95.00	Prices Reflect Recent City Bid	↔	176,225
16" C-905 Water Main	3,450	느	↔	105.00	Prices Reflect Recent City Bid	↔	362,250
Jacking of 36" Casing at Main St NW and RR	150	느	↔	800.00	Prices Reflect Recent City Bid	↔	120,000
Jacking of 36" Casing at 1st St NE and RR	150	느	↔	800.00	CDM Tunnel Group	↔	120,000
Jacking of 36" Casing at 2nd St SE and RR	200	占	↔	800.00	CDM Tunnel Group	↔	160,000
Jacking of 36" Casing at 3rd St SE and RR	200	占	↔	800.00	CDM Tunnel Group	↔	160,000
Pipe Burst 6" Water Main (from 8")	375	느	↔	100.00	Sim Proj -John Schroeder	↔	37,500
Pipe Burst 16" Water Main (from 12")	375	느	↔	150.00	Sim Proj -John Schroeder	↔	56,250
8" Gate Valve	48	EA	↔	1,625.00	Prices Reflect Recent City Bid	↔	78,000
10" Gate Valve	9	EA	↔	2,525.00	Prices Reflect Recent City Bid	↔	15,150
12" Gate Valve	12	EA	↔	3,450.00	Prices Reflect Recent City Bid	↔	41,400
16" Gate Valve	18	EA	↔	6,700.00	Prices Reflect Recent City Bid	↔	120,600
Hydrant	34	EA	↔	7,500.00	Prices Reflect Recent City Bid	↔	255,000
Curb Stop and Box	160	EA	↔	583.33	Prices Reflect Recent City Bid	\$	93,333
					CONSTRUCTION TOTAL		\$2,737,382.80
						•	

\$109,495.31 \$2,846,878.11 \$313,156.59 \$3,160,034.70

Subtotal

4% Contingency

11% Engineering TOTAL



T. Archer	07/17/12	1			
Calc. By:	Date: 07/17/12	Calc. No.:	Revision#:	Revised By:	Revised Date:
Job # 11705-85182					
# qoſ	Checked By:	Date:	Reviewed By:	Date:	
	Client: City of Minot	Project: Downtown Redevelopment	Detail: Utility Study - Water		

			Valves			1					2	2		2	2	2		2	2		2		2		2	2				
	Fire	Hydrant	Assembly Valves			1		,			_	_		_	_	_		_	_		_		_		_	_				
Replacement	Watermain	Size	(in.)			∞		∞			16	16		16	16	16		∞	80		œ		80		12	12				
Existing	Watermain	Size	(in.)			9		9			9	9		12	12	12		9	9		9		9		12	12				
	Watermain	Length	(LF)			0	0	0	0		375	375		375	375	375		400	200		375	0	400		350	375		0	0	0
			Street			Main St N	1st St NE	2nd St NE	3rd St NE		1st St NW	Main St N		1st St NE	2nd St NE	3rd St NE		1st St SW	Main St S		1st St SE	2nd St SE	3rd St SE		1st St SW	Main St S		1st St SE	2nd St SE	3rd St SE
			Street	EAST-WEST SEGMENTS:	Rd	N Broadway	Main St N	1st St NE	2nd St NE	ve W	N Broadway	1st St NW	ve E	Main St N	1st St NE	2nd St NE	×	N Broadway	1st St SW	ш	Main St S	1st St SE	2nd St SE	MS	N Broadway	1st St SW	ĭ	Main St S	1st St SE	2nd St SE
			Block ID	EAST-WE	Frontage Rd	_	2	က	4	Central Ave W	2	9	Central Ave E	7	œ	6	1st Ave SW	10	1	1st Ave SE	12	13	41	2nd Ave SW	15	16	2nd Ave SE	17	18	19



Calc. By: T. Archer	Date: 07/17/12	1			
Calc. By:	Date:	Calc. No.:	Revision#:	Revised By:	Revised Date:
11705-85182					
# qof	Checked By:	Date:	Reviewed By:	Date:	
	Client: City of Minot	Project: Downtown Redevelopment	Detail: Utility Study - Water		

	Valves			2		2	2	2					1		,			,			2		2	2	2	2	2	
Fire Hydrant	Assembly Valves			_		_	_	_						1	1	1	,				_		_	_	_	_	_	
Replacement Watermain Size	(in.)					10	10	10			1										∞		œ	∞	∞	∞	80	
Existing Watermain Size	(in.)		ı			10	10	10			ı		9	12	9	12	9	12	9		9		9	9	9	9	9	
Watermain Length	(LF)		0	0		400	375	375			0			1	,		1	1	1		320		375	375	375	325	375	
	Street		1st St SW	Main St S		1st St SE	2nd St SE	3rd St SE			Central Ave W		1st Ave SW	1st Ave SW	2nd Ave SW	2nd Ave SW	3rd Ave SW	3rd Ave SW	Burdick Expy W		Central Ave W		1st Ave SW	2nd Ave SW	3rd Ave SW	Burdick Expy W	5th Ave SW	
	Street	M	N Broadway	1st St SW	Ш	Main St S	1st St SE	2nd St SE	NORTH-SOUTH SEGMENTS:	ay	Frontage Rd	ay	Central Avenue W	Central Avenue W	1st Ave SW	1st Ave SW	2nd Ave SW	2nd Ave SW	3rd Ave SW				Central Avenue W	1st Ave SW	2nd Ave SW	3rd Ave SW	Burdick Expy W	
	Block ID	3rd Ave SW	20	21	3rd Ave SE	22	23	24	NORTH-S	N Broadway	25	S Broadway	26	27	28	29	30	31	32	1st St NW	33	1st St SW	34	35	36	37	38	Main St N

2 of 4



	# qoí	Job # 11705-85182	Calc. By:	Calc. By: T. Archer
Client: City of Minot	Checked By:		Date:	07/17/12
Project: Downtown Redevelopment	Date:		Calc. No.:	1
Detail: Utility Study - Water	Reviewed By:		Revision#:	
	Date:		Revised By:	
			Revised Date:	

		Valves	2
Fire	Hydrant	Assembly	1
Watermain	Size	(in.)	8
Watermain	Size	(in.)	9
Watermain	Length	(LF)	220
		Street	Central Ave E
		Street	Frontage Rd
		Block ID	39
	n Watermain Watermain	n Watermain Watermain Size Size	Watermain Watermain Watermain Length Size Size (LF) (in.) (in.)



T. Archer	07/17/12	1			
Calc. By:	Date: 07/17/12	Calc. No.:	Revision#:	Revised By:	Revised Date:
11705-85182					
# qof	Checked By:	Date:	Reviewed By:	Date:	
	Client: City of Minot	Project: Downtown Redevelopment	Detail: Utility Study - Water		

			Watermain	Existing Watermain	Replacement Watermain	Fire		
			Length	Size	Size	Hydrant		
Block ID	Street	Street	(LF)	(in.)	(in.)	Assembly	Valves	
Main St S								
40	Central Avenue E	1st Ave SE	375	12	12	_	2	
41	1st Ave SE	2nd Ave SE	375	12	12	_	2	
42	2nd Ave SE	3rd Ave SE	375	12	12	_	2	
43	3rd Ave SE	Burdick Expy W	325	9	∞	_	2	
1st St NE								
44	Frontage Rd	Central Ave E	450	9	∞	_	2	
1st St SE								
45	Central Avenue E	1st Ave SE	375	∞	∞	_	2	
46	1st Ave SE	2nd Ave SE	375	∞	∞	_	2	
47	2nd Ave SE	3rd Ave SE	375	∞	∞	_	2	
48	3rd Ave SE	Burdick Expy E	325	9	∞	_	2	
2nd St NE								
49	Frontage Rd	Central Ave E	450	9	∞	_	2	
2nd St SE								
20	Central Avenue E	1st Ave SE	0		1		1	
51	1st Ave SE	2nd Ave SE	375	9	∞	_	2	
52	2nd Ave SE	3rd Ave SE	375	9	∞	_	2	
53	3rd Ave SE	Burdick Expy E	325	9	∞	_	2	
3rd St NE								
54	Frontage Rd	Central Ave E	450	14	16	_	2	
3rd St SE								
22	Central Avenue E	1st Ave SE	450	12	16	_	2	
26	1st Ave SE	2nd Ave SE	300	12	16	_	2	
22	2nd Ave SE	3rd Ave SE	375	12	16	_	2	
28	3rd Ave SE	Burdick Expy E	375	12	16	1	2	

Appendix D: Street Lighting Improvements



Client: City of Minot
Project: Downtown Redevelopment
Detail: Utility Study - Street Light Replacement

 Job #
 11705-85182
 Calc. By: Oin Plansky

 Checked By: Date: Date: Date: Date: Date: Date: Oil (1/4/12)
 Calc. No.: Image: Date: Date: Date: Date: Date: Oil (1/2/12)

 Reviewed By: Date: Dat

Summary of Costs for Full Sanitary Sewer Replacement in Minot Downtown Redevelopment District

Pay Item Description	Quantity	Unit of Measure	Unit Price	Quantity Unit of Measure Unit Price Source of Unit Price	Total	Fotal Cost
CONTRACT BOND/MOBILIZATION	_	rs	\$ 24,000.00	\$ 24,000.00 Prices Reflect Recent City Bid Results	ઝ	24,000
YPE A POLES/FIXTURES	228	EA	\$3,500.00	\$3,500.00 Prices Reflect Recent City Bid Results	↔	798,000
20/240 CIRCUITRY	11000	5	\$6.95	\$6.95 Prices Reflect Recent City Bid Results	↔	76,450
20 CIRCUITRY	5800	5	\$5.95	55.95 Prices Reflect Recent City Bid Results	↔	34,510
2" CONDUIT	16800	5	\$10.50	\$10.50 Prices Reflect Recent City Bid Results	↔	176,400
PULLBOX	40	EA	\$850.00	3850.00 Prices Reflect Recent City Bid Results	↔	34,000
RENCHING	16800	5	\$3.10	\$3.10 Prices Reflect Recent City Bid Results	↔	52,080
NEW TYPE IV FEEDPOINT	80	EA	\$9,000.00	9,000.00 Prices Reflect Recent City Bid Results	↔	72,000
SPARE POLE	2	EA	\$2,000.00	2,000.00 Prices Reflect Recent City Bid Results	↔	10,000
SPARE LUMINAIRE	2	EA	\$1,800.00	1,800.00 Prices Reflect Recent City Bid Results	↔	9,000

\$1,286,440.00	\$25,728.80	\$1,312,168.80	\$78,730.13
CONSTRUCTION TOTAL	2% Contingency	Subtotal	6% Engineering

TOTAL \$1,390,898.93

Appendix E: Pavement and Traffic Signal Improvements



Client: City of Minot

Project: Downtown Redevelopment

Detail: Utility Study - Pavement Replacement

Revised By: Calc. By: Calc. No.: Revision#: 11705-85182 W. Lueck 07/30/12 Date: Checked By: Reviewed By: # qo[Date:

W. Lueck 07/27/12

J. Weiland

Revised Date:

01/07/13

Summary of Costs for Full Pavement Replacement in Minot Downtown Redevelopment District

Pay Item Description	Quantity	Unit of Measure)	Unit Price	Source of Unit Price	Total Cost
Remove Pavement	87,366	SY	↔	20.00	Prices updated to reflect recent City Bid Results	\$1,747,320
Geotextile Fabric - Type R1	87,366	SY	↔	2.52	Prices updated to reflect recent City Bid Results	\$220,163
6 inches Aggregate Base, Class 5	14,600	ζ	↔	22.00	Prices updated to reflect recent City Bid Results	\$321,200
6 inches Reinforced Concrete Pavement	87,400	λS	↔	50.00	Prices updated to reflect recent City Bid Results	\$4,370,000
4" Concrete Sidewalk (Central Business District)	24,927	λS	↔	40.00	Prices updated to reflect recent City Bid Results	\$997,080
Concrete Curb and Gutter - Type 1	27,443	4	↔	27.30	Prices updated to reflect recent City Bid Results	\$749,194
Traffic Signals (Video Controlled)	9	Per Intersection	↔	250,000	Prices updated to reflect recent City Bid Results	\$1,500,000
Flashing Crosswalk	2	EA	↔	75,000	Prices updated to reflect recent City Bid Results	\$150,000
Traffic Control	~	rs	↔	150,000.00	Prices updated to reflect recent City Bid Results	\$150,000
Erosion Control	~	rs	↔	80,000.00	Prices updated to reflect recent City Bid Results	\$80,000
Mobilization/Bonding	~	rs	↔	210,000.00	Prices updated to reflect recent City Bid Results	\$210,000
Trees/Plantings	←	rs	€9	200,000.00	Prices updated to reflect recent City Bid Results	\$200,000
					CONSTRUCTION TOTAL = 3.6% Contingency = Subtotal	\$10,694,957.22 \$381,588.82 \$11,076,546.04

\$12,370,049.14 TOTAL

\$1,223,503.10 \$194,367.39 \$70,000.00

11.0% Engineering = 1.8% Other Engineering = 0.6% Administration



J. Weiland	07/27/12	1	1	W. Lueck	11/07/12
Calc. By:	Date:	Calc. No.:	Revision#:	Revised By:	Revised Date:
Job # 11705-85182			W. Lueck		
# qoſ	Checked By:	Date:	Reviewed By: W. Lueck	Date:	
	Client: City of Minot	Project: Downtown Redevelopment	Detail: Utility Study - Pavement Replacement		

									Curb &	
			Pavement	Pavement	Pavement	Sidewalk	Sidewalk	Sidewalk	Gutter	
			Length	Width	Area	Length	Width	Area	Length	
Block ID	Street	Street	(FT)	(FT)	(FT) (SY) (FT) (FT)	Œ	(FT)	(SY)	(FT)	Notes
EAST-WEST	EAST-WEST SEGMENTS:									
LG 0201027	_									

0
2
<u>e</u>
0
12
Ξ
2
Ш

Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area	Pavement, Sidewalk, C&G replacement not included - border street of	redevelopment area	sides road	Sidewalk, C&G length for both sides road	Sidewalk, C&G length for both sides road	Sidewalk, C&G length for both sides road	Sides road
0	0	0		0	009	009	009	009	009
0	0	0	•	0	533	533	533	533	533
0	0	0	(0	16	16	16	16	16
0	0	0	•	0	300	300	300	300	300
0	0	0	,	0	1833	2056	2056	2056	2056
0	0	0		0	90	20	20	20	20
0	0	0		0	330	370	370	370	370
Main St N	1st St NE	2nd St NE	!	3rd St NE	1st St NW	Main St N	1st St NE	2nd St NE	3rd St NE
N Broadway	Main St N	1st St NE	!	4 2nd St NE Central Ave W	N Broadway	1st St NW we E	Main St N	1st St NE	2nd St NE
<i>←</i>	2	က		4 Central A	2	6 1st Central Ave E	7	80	6



	# qof	Job # 11705-85182	Calc. By:	J. Weiland
Client: City of Minot	Checked By:		Date:	07/27/12
Project: Downtown Redevelopment	Date:		Calc. No.:	
Detail: Utility Study - Pavement Replacement	Reviewed By: W. Lueck	W. Lueck	Revision#:	1
	Date:		Revised By:	W. Lueck
		R	Revised Date:	11/07/12

Block ID	Street	Steel Steel	Pavement Length (FT)	Pavement Width (FT)	Pavement Pavement Width Area (FT) (SY)	Sidewalk Length	Sidewalk Width (FT)	Sidewalk Area (SY)	Curb & Gutter Length	Septon
1st Ave SW										
10	N Broadway	1st St SW	330	90	1833	300	16	533	009	Sidewalk, C&G length for both sides road
11 1 1st Ave SE	1st St SW SE	Main St S	370	20	2056	300	16	533	009	Sidewalk, C&G length for both sides road
12	Main St S	1st St SE	370	20	2056	300	16	533	009	Sidewalk, C&G length for both sides road
13	1st St SE	2nd St SE	370	90	2056	300	16	533	009	Sidewalk, C&G length for both sides road
14 2r 2nd Ave SW	2nd St SE	3rd St SE	380	20	2111	340	16	604	089	Sidewalk, C&G length for both sides road
15	N Broadway	1st St SW	310	20	1722	270	16	480	540	Sidewalk, C&G length for both sides road
16 18 2nd Ave SE	1st St SW	Main St S	370	20	2056	300	16	533	009	Sidewalk, C&G length for both sides road
17	Main St S	1st St SE	370	20	2056	300	16	533	009	Sidewalk, C&G length for both sides road
18	1st St SE	2nd St SE	370	90	2056	300	16	533	009	Sidewalk, C&G length for both sides road
19 2r 3rd Ave SW	2nd St SE SW	3rd St SE	340	20	1889	300	16	533	009	Sidewalk, C&G length for both sides road
20	N Broadway	1st St SW	310	20	1722	270	16	480	540	Sidewalk, C&G length for both sides road
21 3rd Ave SE	1st St SW SE	Main St S	370	90	2056	300	16	533	009	Sides road



Smith	Ŧ				# dol	11705-	11705-85182	Calc. Bv:		J. Weiland
	Client	Client: City of Minot		O	Checked By:			_ Date:		07/27/12
	Project	Project: Downtown Redevelopment	lopment		Date:			Calc. No.:		1
	Detail:	Detail: Utility Study - Pavement	ment Replacement		Reviewed By:		W. Lueck	Revision#:		_
					Date:		I	Revised By:		W. Lueck
					-		Re	Revised Date:		11/07/12
را در	jo je ar	Street	Pavement Length (FT)	Pavement Width (FT)	Pavement Area (SY)	Sidewalk Length	Sidewalk Width (FT)	Sidewalk Area (SY)	Curb & Gutter Length	Notes
22	Main St S	1st St SE	370	90	2056	300	16	533	009	Sidewalk, C&G length for both sides road
23	1st St SE	2nd St SE	370	20	2056	009	16	1067	009	Sidewalk, C&G length for both sides road
24	2nd St SE	3rd St SE	350	90	1944	009	16	1067	009	Sidewalk, C&G length for both sides road
25	3rd St SE	4th St SE	350	20	778	009	0	0	300	Sidewalk, C&G length for both sides road
26	4th St SE	Front St SE	300	20	299	009	0	0	300	Sidewalk, C&G length for both sides road
NORTH	NORTH-SOUTH SEGMENTS:	;;								
N Broadway	way									Pavement, Sidewalk, C&G replacement not included - border street of
27 F S Broadway	Frontage Rd way	Central Ave W	0	64	0	0	16	0	0	redevelopment area
28	Central Avenue W 1st Ave SW	/ 1st Ave SW	0	64	0	0	16	0	0	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area
29	1st Ave SW	2nd Ave SW	0	64	0	0	16	0	0	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area
30	2nd Ave SW	3rd Ave SW	0	64	0	0	16	0	0	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area



Smith	ŗ				# qo[11705-85182	85182	Calc. By:		J. Weiland
	Client: (Client: City of Minot		Ü	Checked By:			Date:		07/27/12
	Project:	Project: Downtown Redevelopme	ppment		Date:			Calc. No.:		1
	Detail:	Detail: Utility Study - Pavement	nent Replacement		Reviewed By:	W. Lueck	neck	Revision#:		1
	•				Date:			Revised By:		W. Lueck
					•		Re	Revised Date:		11/07/12
			Pavement Length	Pavement Width	Pavement Area	Sidewalk Length	Sidewalk Width	Sidewalk Area	Curb & Gutter Length	
Block ID	Street	Street	(FT)	(FT)	(SY)	(FT)	(FT)	(SY)	(FT)	Notes
										Pavement, Sidewalk, C&G replacement not included - border street of
31 1st St NW	3rd Ave SW	Burdick Expy W	0	64	0	0	16	0	0	redevelopment area
32 1st St SW	, _	Central Ave W	165	20	917	165	16	293	330	Sidewalk, C&G length for both sides road
33	Central Avenue W	1st Ave SW	320	20	1778	320	16	569	640	Sidewalk, C&G length for both sides road
34	1st Ave SW		320	20	1778	320	16	569	640	Sidewalk, C&G length for both sides road
35	2nd Ave SW	3rd Ave SW	320	20	1778	320	16	569	640	Sidewalk, C&G length for both sides road
36	3rd Ave SW	Burdick Expy W	240	20	1333	240	16	427	480	Sidewalk, C&G length for both sides road
37 Main St N	Burdick Expy W	5th Ave SW	0	20	0	0	16	0	0	Sidewalk, C&G length for both sides road
38	Frontage Rd	Central Ave E	420	64	2987	420	16	747	840	Sidewalk, C&G length for both sides road



Smith	£				# qof	11705-85182	85182	Calc. By:		J. Weiland
	Client	Client: City of Minot		O	Checked By:			Date:		07/27/12
	Project:	Project: Downtown Redevelopment	pment		Date:			Calc. No.:		_
	Detail:	Detail: Utility Study - Pavement	nent Replacement		Reviewed By:	W. Lueck	neck	Revision#:		1
	•				Date:			Revised By:		W. Lueck
					•		Re	Revised Date:		11/07/12
			ú	c c		= 	- -	- -	Curb &	
Block ID	Street	Street	Pavement Length (FT)	Pavement Width (FT)	Pavement Area (SY)	Sidewalk Length (FT)	Sidewalk Width (FT)	Sidewalk Area (SY)	Gutter Length (FT)	Notes
Main St S	(0									Signature C. S. O. Signature
39	Central Avenue E	1st Ave SE	320	64	2276	320	16	269	640	sides road
40	1st Ave SE	2nd Ave SE	320	64	2276	320	16	699	640	Sidewalk, C&G length for both sides road
14	2nd Ave SE	3rd Ave SE	320	64	2276	320	16	269	640	Sidewalk, C&G length for both sides road
42 1st St NE	3rd Ave SE	Burdick Expy W	240	64	1707	240	16	427	480	Sidewark, C&G length for both sides road
43 154 St OF	Frontage Rd	Central Ave E	480	90	2667	480	16	853	096	Sidewalk, C&G length for both sides road
44	Central Avenue E	1st Ave SE	320	20	1778	320	16	569	640	Sidewalk, C&G length for both sides road
45	1st Ave SE	2nd Ave SE	320	20	1778	320	16	999	640	Sidewalk, C&G length for both sides road
46	2nd Ave SE	3rd Ave SE	320	20	1778	320	16	569	640	Sidewalk, C&G length for both sides road
47 2nd St NE	3rd Ave SE	Burdick Expy E	240	20	1333	240	16	427	480	Sidewalk, C&G length for both sides road
48 2nd St SE	Frontage Rd	Central Ave E	430	20	2389	430	16	764	860	Sidewalk, C&G length for both sides road
49	Central Avenue E	1st Ave SE	0	0	0	0	0	0	0	No pavement, sidewalk, c&g
20	1st Ave SE	2nd Ave SE	320	20	1778	320	16	569	640	sides road



J. Weiland	07/27/12	1	1	W. Lueck	11/07/12
Calc. By:	Date:	Calc. No.:	Revision#:	Revised By:	Revised Date:
11705-85182			W. Lueck		I
# qo[Checked By:	Date:	Reviewed By: W. Lueck	Date:	l
	Client: City of Minot	Project: Downtown Redevelopment	Detail: Utility Study - Pavement Replacement		

									9	
			Pavement Length	Pavement Width	Pavement Pavement Sidewalk Sidewalk Width Area Length Width	Sidewalk Length	Sidewalk Width	Sidewalk Area	Gutter Length	
Block ID	Street	Street	(FT)	(FT	(SY)	(F)	(FT)	(SY)	<u>(F</u>	Notes
51	2nd Ave SE	3rd Ave SE	320	20	1778	320	16	569	640	Sidewalk, C&G length for both sides road
52 22 Ct NE	3rd Ave SE	Burdick Expy E	240	20	1333	240	16	427	480	Sidewalk, C&G length for both sides road
53 53	Frontage Rd	Central Ave E	200	64	3556	200	16	888	1000	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area
3rd St SE 54	Central Avenue E	1st Ave SE	467	49	3319	467	16	830	933	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area
55	1st Ave SE	2nd Ave SE	217	64	1541	217	16	385	433	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area
56	2nd Ave SE	3rd Ave SE	0	64	0	0	16	0	0	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area
57	3rd Ave SE	Burdick Expy E	283	49	2015	283	16	504	567	Pavement, Sidewalk, C&G replacement not included - border street of redevelopment area
		TOTALS =	15252		87,366			24,927	27,443	
			CY of P	CY of Pavement =	9707					



	# qoſ	Job # 11705-85182	Calc. By:	J. Weiland	
Client: City of Minot	Checked By:		Date:	07/27/12	
Project: Downtown Redevelopment	Date:		Calc. No.:	1	
Detail: Utility Study - Pavement Replacement	Reviewed By: W. Lueck	W. Lueck	Revision#:	1	
	Date:		Revised By:	W. Lueck	
		R	Revised Date:	11/07/12	

					14561	C.Y of Base =	۲.			
Notes	(FT)	(SY)	(FT)	(FT)	(SY)	(FT)	(FT)	Street	Street	Block ID
		Area	Area Length Width	Length	Area	Width	Length			
	Gutter		Sidewalk	Sidewalk	Pavement	Pavement Pavement Sidewalk Sidewalk	Pavement			
	Curb &									

Phase I Environmental Site Assessment

205 1st Street SW Minot, ND 58701

Prepared for:
City of Minot
512 2nd Avenue SW
Minot, ND 58702

Date: August 6, 2012

TriMedia Project Number 2012-102

G:\Projects\2012\2012-102 Cypress Development - Minot Phase I ESAs\Reports\Site 1\Site 1 - Phase I ESA FINAL.doc



Phase I Environmental Site Assessment Table of Contents

1.0	Sum	mary	1
2.0	Intro	duction	1
	2.1	Purpose	1
	2.2	Detailed Scope of Services	4
	2.3	Significant Assumptions	4
	2.4	Limitations and Exceptions	4
	2.5	Special Terms and Conditions	4
	2.6	User Reliance	4
3.0	Site	Description	5
	3.1	Location and Legal Description	5
	3.2	Site and Vicinity General Characteristics	5
	3.3	Current Use of the Property	5
	3.4	Structures, Roads, & Other Onsite Improvements	5
	3.5	Current Uses of Adjoining Properties	5
4.0	User	Provided Information	6
	4.1	Title Records	6
	4.2	Environmental Liens or Activity and Use Limitations	6
	4.3	Specialized Knowledge or Experience	6
	4.4	Commonly Known or Reasonably Ascertainable Information	6
	4.5	Valuation Reduction for Environmental Issues	6
	4.6	Owner, Property Manager, and Occupant Information	6
	4.7	Reasons for Performing Phase I ESA	6
5.0	Reco	ords Review	7
	5.1	Standard Environmental Record Sources	7
	5.2	Additional Environmental Record Sources	12
	5.3	Physical Setting Sources	13
	5.4	Historical Use Information on the Property	13



		5.4.1	Historical Aerial Photographs	13
		5.4.2	Historical Topographic Maps	14
		5.4.3	Historical City Directories	14
		5.4.4	Historical Fire Insurance Maps	14
	5.5	Histori	ical Use Information on Adjoining Properties	15
6.0	Site F	Reconna	aissance	15
	6.1	Metho	dology and Limiting Conditions	15
	6.2	Gener	ral Site Setting	16
		6.2.1	Current Uses of the Subject Property	16
		6.2.2	Past Uses of the Subject Property	16
	6.3	Site O	bservations	17
7.0	Interv	views		18
	7.1	Intervi	ew with Owner	18
	7.2	Intervi	ew with Site Manager	18
	7.3	Intervi	ew with Occupants	18
	7.4	Intervi	ews with Local Government Officials	19
	7.5	Intervi	ews with Others	19
8.0	Findi	ngs		19
9.0	Opini	on		19
10.0	Conc	lusions	and recommendations	19
11.0	Devia	itions		20
12.0	Addit	ional S	ervices	20
13.0	Refer	ences		21
14.0	Signa	atures o	f Environmental Professionals	22
15.0	Quali	fication	s of Environmental Professionals	23

APPENDICES

APPENDIX A Figures

APPENDIX B Photographic Documentation

APPENDIX C Regulatory Documentation

APPENDIX D Historical Documentation



1.0 SUMMARY

TriMedia Environmental & Engineering Services, LLC (TriMedia) was retained to complete a Phase I Environmental Site Assessment (Phase I ESA) of a property located at 205 1st Street SW in Minot, North Dakota ("subject property"). The Phase I ESA was conducted in general accordance with American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-05).

After a review of environmental records, site reconnaissance, review of historical data, and select interviews, TriMedia found indication of one <u>Recognized Environmental Condition</u> (REC) associated with the subject property. The identified REC is as follows:

➤ The former presence of an automobile repair and painting shop constitutes an REC to the subject property.

2.0 INTRODUCTION

2.1 PURPOSE

The purpose of the Phase I ESA was to evaluate the subject property for the presence of RECs (as defined by ASTM E 1527-05). This investigative effort was conducted to provide the City of Minot a basis for asserting landowner liability protections and defenses (should landowner liability protections and defenses become necessary) under the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

This evaluation was conducted in general accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-05). Performance of this Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding environmental matters, while recognizing reasonable limits of time and cost.

The following terms and acronyms may appear in this report:



- 1. Aboveground Storage Tank (AST) any tank that currently is, or has in the past, been used to contain hazardous substances or petroleum products and which is located at least 90% above surface grade.
- Activity and Use Limitations legal (institutional controls) or physical (engineering controls) restrictions or limitations on the use of, or access to, a site to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the site, or to prevent activities that could interfere with the effectiveness of response actions.
- 3. Conditionally Exempt Small Quantity Generator (CESQG) handler generates, transports, stores, or treats one hundred (100) kilograms or less of hazardous waste per calendar month and accumulates one thousand (1000) kilograms or less of hazardous waste at any time.
- 4. De minimis conditions that generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.
- 5. Environmental Lien a charge, security, or encumbrance upon title to a property to secure payment of a cost, damage, debt, obligation, or duty arising out of response actions, clean-up, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC 9607(1) and similar state or local laws.
- 6. Fire Insurance Maps maps produced for private fire insurance companies (i.e., Sanborn Maps) that indicate historical uses of properties at specific dates.
- 7. Hazardous Substance a substance defined as a hazardous substance pursuant to CERCLA 42 USC 9601(14).
- 8. Historical Recognized Environmental Condition an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently.
- 9. Large Quantity Generator (LQG) handler generates, transports, stores, or treats over one thousand (1000) kilograms of hazardous waste or over one kilogram of acutely hazardous waste per calendar month.
- 10. LUST an underground storage tank on the State of North Dakota list of leaking underground storage tank sites.



- 11. Material Threat a physically observable or obvious threat which is reasonably likely to lead to a release that is threatening and may result in a negative impact to public health or the environment.
- 12. NDDH-EHS North Dakota Department of Health Environmental Health Section
- 13. PCBs Polychlorinated Biphenyls
- 14. Petroleum Products petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under CERCLA 42 USC, including natural gas, natural gas liquids, and synthetic gas usable for fuel.
- 15. Physical Setting Sources sources that provide information about the geologic, hydrogeologic, or topographical characteristics of the site.
- 16. Reasonably Ascertainable information that is (1) publicly available, (2) obtainable from a source within reasonable time and cost constraints, and (3) practically reviewable.
- 17. Recognized Environmental Condition (REC) the presence or likely presence of any hazardous substances or petroleum products under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.
- 18. Small Quantity Generator (SQG) handler generates, transports, stores, or treats more than one hundred (100) and less than one thousand (1,000) kilograms of hazardous waste during any calendar month and accumulates less than six thousand (6,000) kilograms of hazardous waste at any time.
- 19. Underground Storage Tank (UST) any tank, including underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath surface grade.



2.2 DETAILED SCOPE OF SERVICES

This Phase I ESA is based on the scope-of-services defined in TriMedia's Technical and Cost Proposal dated June 14, 2012. The scope of services included a site reconnaissance, regulatory and historical records review, interviews with individuals knowledgeable about the subject property, and development of this report in accordance with ASTM E1527-05.

The following are not typically part of an ASTM E1527-05 Phase I ESA and were not included in the scope of services provided by TriMedia: asbestos and radon sampling, groundwater sampling and analysis, mold assessment, lead-based paint inspection and analysis, lead in drinking water analysis and wetland delineation.

2.3 SIGNIFICANT ASSUMPTIONS

No significant assumptions were made in this Phase I ESA.

2.4 LIMITATIONS AND EXCEPTIONS

Other than the usual time and budgetary constraints established by the Request for Quotation for this Phase I ESA, and the usual circumstance that not all historical sources listed in the ASTM Standard were reasonably ascertainable, no significant limitations were encountered during the development of this Phase I ESA.

No warranty, either expressed or implied, can be made that conditions observed at the site are representative of all areas of the subject property. Data collected for this Phase I ESA were obtained for the purpose stated and should not be used for reasons other than those intended. The conditions reported herein apply only to those specific locations and times at which the work was completed. Conclusions made in this Phase I ESA are based on reasonably ascertainable information and data and represent the professional judgment and interpretations of TriMedia.

2.5 SPECIAL TERMS AND CONDITIONS

No special terms or conditions apply to this report.

2.6 USER RELIANCE

This Phase I ESA is prepared for the exclusive use and reliance of the City of Minot. Use or reliance by any other party is prohibited without the written authorization of the City of Minot and TriMedia.

Environmental conditions and regulations are continually evolving and are subject to change and interpretation. Do not assume current conditions and/or regulatory positions will remain constant. Furthermore, because the data contained within this Phase I ESA is subject to professional interpretation, other professionals may reach differing conclusions.



Continued viability of this report is subject to ASTM E 1527-05 Sections 4.6 and 4.8. If the Phase I ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E 1527-05.

3.0 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

The subject property is a surface parking lot located at 205 1st Street SW in the City of Minot, Ward County, North Dakota. The location of the subject property is presented in Figure 1 and Figure 2, located in Appendix A. Information regarding the subject property was obtained from the City of Minot GIS Property Map on June 22, 2012. According to the website, the parcel number for the subject property is MI242381100240 and is owned by the City of Minot. The legal description for the subject property is:

ORIGINAL MINOT ADDITION LOTS 13 THRU 24 BLOCK 11

3.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The subject property occupies approximately 42,000 square feet in downtown Minot and encompasses the western half of the block bounded by 2nd Avenue SW, 1st Street SW, 3rd Avenue SW, and Main Street South. The subject property slopes to the north with an elevation of approximately 1,608 feet above mean seal level (msl) at the south end and 1,596 feet above msl at the north end. The predominant surface water feature in the vicinity is Souris River located approximately 1,400 feet north of the subject property. Refer to Appendix A and Appendix B for maps and photographs of the subject and surrounding properties.

3.3 CURRENT USE OF THE PROPERTY

The subject property is currently operated as a surface parking lot.

3.4 STRUCTURES, ROADS, & OTHER ONSITE IMPROVEMENTS

The subject property is an asphalt surface parking lot and does not contain any structures. A pad-mounted electrical transformer is located in the northeast corner of the property, and several utility poles and street/parking lights are located throughout the property.

3.5 CURRENT USES OF ADJOINING PROPERTIES

The area surrounding the subject property consists of surface parking lots and commercial, medical, residential, and retail properties. Adjoining properties to the south include Thompson-Larson Funeral Home (21 3rd Avenue SW) and the Thompson Apartments (13 3rd Avenue SW). Adjoining properties to the west include surface parking lots operated by Trinity Health (200, 216, and 218 1st Street SW). The 200 1st Street SW



property also contains a one story block structure that appears to be used for storage. The parcel north of the subject property is occupied by the Minot Building (123 2nd Avenue SW), an eight-story office building. Immediately east of the subject property across a narrow alley is the Wells Fargo property (15 2nd Avenue SW), which consists of a surface parking lot and large office building.

4.0 USER PROVIDED INFORMATION

4.1 TITLE RECORDS

Deed information was not provided. TriMedia assumes the client is evaluating this information outside the context of this report.

4.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The assessment user questionnaire was completed on July 10, 2012 by Matthew Sloan, representative of the subject property purchaser. Mr. Sloan did not have knowledge of environmental liens or AULs encumbering the site or in connection with the site. In addition, TriMedia did not encounter indications of liens or limitations in other aspects of the research for this *Phase I ESA*.

4.3 SPECIALIZED KNOWLEDGE OR EXPERIENCE

Mr. Sloan did not provide any specialized knowledge or experience of the subject property.

4.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

TriMedia is not aware of any commonly known or reasonable ascertainable information associated with historical conditions or remedial actions performed at the subject property.

4.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Mr. Sloan was not aware of a significantly lower purchase price because of the presence of hazardous substances or petroleum products or other negative environmental conditions.

4.6 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

The subject property is owned by the City of Minot and operated as a surface parking lot. As such, there is no property manager or occupants.

4.7 REASONS FOR PERFORMING PHASE I ESA

This Phase I ESA was commissioned by the City of Minot to evaluate environmental concerns related to a potential purchase and subsequent development of the subject property to include an underground parking structure and aboveground housing.



5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

TriMedia conducted a review of regulatory agency files to determine if the subject property and/or adjacent properties are, or were, known sites of environmental contamination. Reasonably ascertainable environmental record sources were investigated and standard sources were reviewed by TriMedia. A summary report of the review, provided by Environmental Data Resources, Inc. (EDR) and the EDR Radius MapTM Report with GeoCheck® (EDR Radius Map Report) are included in Appendix C.

A number of environmental data sources were reviewed and documented sites were found within the ASTM E 1527-05 search radius around the subject property. The following data sources were investigated:

Federal Databases

Database	<u>Description</u>	Radius (miles)	<u>Facilities</u>
NPL	The NPL is the USEPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.	1.0	0
NPL (Proposed)	Proposed National Priority List Sites	1.0	0
NPL (Delisted)	The NPL Delisted refers to facilities that have been removed from the NPL.	1.0	0
NPL Recovery	Federal Superfund Liens	Site	0
CERCLIS / NFRAP	The CERCLIS database is a compilation of facilities which the USEPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the CERCLA of 1980. NFRAP refers to facilities that have been removed and archived from its inventory of CERCLA sites.	0.5	0
RCRA CORRACTS/ TSD	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous waste that are undergoing "corrective action." A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1.0	0
RCRA Non- CORRACTS/ TSD	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.	0.5	0



<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Facilities</u>
RCRA Generators	The RCRA Generators database, maintained by the USEPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as large, small, or conditionally exempt. LQG produces at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.	0.25	1
RCRA-NonGen	The RCRA-NonGen database, maintained by the USEPA, lists facilities that were previously listed in the RCRA Generators database but no longer generate hazardous waste as part of their normal business practices.	0.25	4
ERNS	The ERNS is a listing compiled by the USEPA on reported releases of petroleum and hazardous substances to the air, soil and/or water.	Site	0
HMIRS	Hazardous Materials Information Reporting System	Site	0
IC / EC	A listing of sites with engineering and/or institutional controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.	0.5	0
DOD	Department of Defense Sites	1.0	0
FUDS	Formerly Used Defense Sites	1.0	0
US BROWNFIELDS	A listing of Brownfield Sites	0.5	0
CONSENT	Superfund (CERCLA) Consent Decrees	1.0	0
ROD	Records of Decision	1.0	0
UMTRA	Uranium Mill Tailings Sites	0.5	0
ODI	Open Dump Inventory	0.5	0
TRIS	Toxic Chemical Release Inventory System	Site	0
TSCA	Toxic Substances Control Act	Site	0
FTTS SSTS	FIFRA/TSCA Tracking System Section 7 Tracking Systems	Site Site	0
ICIS	Integrated Compliance Information System	Site	0
LUCIS	Land Use Control Information System	0.5	0
RADINFO	Radiation Information Database	Site	0
CDL	Clandestine Drug Labs	Site	0
PAD	PCB Activity Database System	Site	0
MLTS	Material Licensing Tracking System	Site	0



<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Facilities</u>
MINES	Mines Master Index File	0.25	1
FINDS	Facility Index System/Facility Registry System	Site	0
RAATS	RCRA Administrative Action Tracking System	Site	0

State Databases

<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Facilities</u>
State Hazardous Waste	The NDDH-EHSNDDH-EHS maintains a database of state equivalent CERCLIS facilities in the State of North Dakota.	1.0	0
SWF/LF	The NDDH-EHS maintains a database of solid waste disposal facilities and landfills in the State of North Dakota.	0.5	0
LUST	The NDDH-EHS has compiled a database of Leaking Underground Storage Tank in the State of North Dakota.	0.5	12
UST	The NDDH-EHS has compiled a database of registered Underground Storage Tanks in the State of North Dakota.	0.25	14
AST	The NDDH-EHS has compiled a database of registered Aboveground Storage Tanks in the State of North Dakota.	0.25	0
BEA	The NDDH-EHS maintains a listing of properties in which a Baseline Environmental Assessment (BEA) has been conducted.	0.5	0
AUL	Sites with institutional and/or engineering controls in place.	0.5	0
DRYCLEANERS	The NDDH-EHS maintains a list of dry-cleaning facilities in the State of North Dakota.	0.25	0
LIENS	The NDDH-EHS maintains a list of liens placed on a property due to an environmental condition.	Site	0
BROWNFIELDS	Brownfields Site Location Listing	0.5	0
AIRS	Air Permit and Emissions Inventory Data	Site	0

Tribal Databases

INDIAN RESERVE	Indian Reservations	1.0	0
INDIAN LUST	Leaking Underground Storage Tanks on Indian land	0.5	0
INDIAN UST	The NDDH-EHSNDDH-EHS has compiled a database of registered Underground Storage Tanks on Indian land in the State of North Dakota.	0.25	0

EDR Proprietary Records

Manufactured Gas Plants EDR Pro	oprietary Manufactured Gas Plants	1.0	0
----------------------------------	-----------------------------------	-----	---



The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the subject property. Distances and directions of several facilities were adjusted to field observed distances. Additional discussion regarding selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance/Direction/Gradient	Database Listings
Minot Laundry and Cleaners, Inc. 200 1 st Street SW	Approximately 40 feet / West / Side gradient	LUST, UST
Sherwin Williams Co. 213 South Main Street	Approximately 195 feet / East / Side gradient	RCRA-NonGen, FINDS
Northern States Power Company 24 2 nd Avenue SE	Approximately 285 feet / East / Side gradient	UST
US West Communications 201 South Broadway	Approximately 295 feet / West / Side gradient	UST
Trinity Hospital Burdick Expressway & Main Street	Approximately 325 feet / SSE / Up to Side gradient	UST, RCRA-CESQG, FINDS
Sweetheart Bakery 220 South Broadway	Approximately 400 feet / West / Side gradient	UST
M and H Gas 25 East Burdick Expressway	Approximately 440 feet / Southeast / Side to Upgradient	LUST, UST
US Government GSA 100 1 st Street SW	Approximately 450 feet / North / Downgradient	UST
Aggregate Construction Inc. Ward County, ND	Approximately 450 feet / Southwest / Side to Upgradient	MINES
Sweetheart Bakery Truck Shop 300 3 rd Street SW	Approximately 665 feet / West / Side gradient	UST
Carquest Western Auto 300 3 rd Avenue SW	Approximately 658 feet / WSW / Side gradient	RCRA-NonGen, FINDS
Bray's Cleaners 10 1 st Street NW	Approximately 770 feet / North / Downgradient	RCRA-NonGen, FINDS
Westlie Motor Company, Inc. 500 South Broadway	Approximately 800 feet / SSW / Side to Upgradient	RCRA-NonGen, UST
I Keating Inc. 10 South Broadway	Approximately 845 feet / NNW / Downgradient	UST



Facility Name and Location	Estimated Distance/Direction/Gradient	Database Listings
BNSF Gavin Yard Hwy 12 and 12N	Approximately 1,070 feet / Northeast / Downgradient	LUST, UST
Kemper Construction Company 309 Park Street	Approximately 1,075 feet / West / Downgradient	UST
Burlington Northern Railroad Company Main & 1 st Avenue North	Approximately 1,280 feet / North / Downgradient	UST
Farmers Union Oil Company 215 East Central Avenue	Approximately 1,300 feet / Northeast / Downgradient	UST
Holiday Station Store 110 700 North Broadway	Approximately 1,330 feet / South / Upgradient	LUST, UST
Rent a Wreck 529 Burdick Expressway	Approximately 1,485 feet / WSW / Side gradient	LUST, UST
Minot Farmers Elevator PO Box 1748	Approximately 1,500 feet / Northeast / Downgradient	LUST, UST
Mini Mart 671 409 4 th Avenue SE	Approximately 1,750 feet / ESE / Side gradient	LUST, UST
North Dakota Concrete Products 5 th Avenue & 4 th Street NE	Approximately 1,750 feet / ESE / Side gradient	LUST, UST
Mini Mart 673 810 North Broadway	Approximately 1,850 feet / South / Upgradient	LUST, UST
Campus Texaco 815 North Broadway	Approximately 1,860 feet / South / Upgradient	LUST, UST
Amoco SS 8643 300 5 th Street SE	Approximately 2,150 feet / East / Side gradient	LUST, UST
Gateway Savings and Loan 10115 South Broadway	Approximately 2,585 feet / South / Upgradient	LUST, UST

Minot Laundry and Cleaners, Inc.

Minot Laundry and Cleaners, Inc. were formerly located across 1st Street SW immediately west of the subject property at 200 1st Street SW. The EDR Radius Map Report lists the property in the LUST and UST databases. The LUST database indicates that the site cleanup had been completed as of July 17, 1993. Because this site is located side gradient to the subject property and site cleanup activities have been completed, it is reasonable to assume that potential impacts from this site have not impacted the subject property.



Trinity Hospital

Trinity Hospital encompasses a significant portion of the area south of the subject property and was listed in the UST, FINDS, and RCRA-CESQG databases. The EDR Report indicates that a compliance evaluation inspection was conducted by the State of ND on December 26, 2002 and no violations were reported. This site does not appear to represent an REC to the subject property based upon its regulatory status and distance from the subject property.

M and H Gas

Information provided in the LUST database indicates that site cleanups of the M and H Gas site were listed as complete on September 17, 1993 and December 28, 2010; likely indicating that multiple releases have occurred at the site. Based on the completion of site cleanup activities and the distance and location from the subject property, it is reasonable to assume this site does not represent an REC to the subject property.

Other Sites

The remaining facility listings do not appear to represent RECs to the subject property at this time based upon regulatory status, apparent topographic gradient and distance from the subject property.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report lists 20 facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the subject property. These facilities are listed in the EDR Radius Map Report located in Appendix C.

5.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

TriMedia submitted a Freedom of Information Act (FOIA) request to the NDDH-EHS Hazardous Waste and Underground Storage Tank programs for file information on the subject property. Ms. Emily Tintes Schiwal responded via e-mail indicating the Hazardous Waste Program had no file information associated with the above mentioned properties.

Mr. Kirk Johnson of the Division of Waste Management responded via e-mail with a summary of file information for the former Minot Laundry & Cleaners site. The file indicates that three USTs that had been installed in 1956 were removed from the site in 1993. Observations made during removal did not indicate a release had occurred. The tanks were inspected and no holes were noted in them. However, 20-40 cubic yards of earthen material (fill and native soil) were removed from the excavation and at least a portion of this material was land farmed at a local landfill because they contained a 'low level of solvents'.



The file also indicates that a boring advanced on the subject property prior to tank removal. Hydrocarbon odors were noted by the drilling crew and field screening indicated hydrocarbons were detected in the boring ranging from 200 to 740 parts per million.

Refer to Appendix C for records documenting the FOIA request results.

5.3 PHYSICAL SETTING SOURCES

TriMedia used a United States Geological Survey (USGS) Topographic Map, EDR's GeoCheck[®] option and specific local project experience to obtain information regarding the subject property's physical setting (i.e. soils, geology, hydrology, etc.). This information is discussed in Section 6.2.

5.4 HISTORICAL USE INFORMATION ON THE PROPERTY

TriMedia reviewed standard historical sources, as identified in E 1527-05, to identify potential RECs associated with historical use of the property. TriMedia subcontracted EDR to provide the following standard historical sources:

5.4.1 Historical Aerial Photographs

The EDR Aerial Photo Decade Package provided TriMedia with historical aerial photographs from 1966, 1974, 1982, 1984, 1992, 1995, 2005, and 2006. Selected photographs are summarized below. Because the subject property is located in the oldest part of Minot, the surrounding area is fully developed and has only experienced minor redevelopment since 1966. Note that the resolution and scale of photographs from 1974, 1982, and 1984 do not enable accurate assessment of the area.

Historical Aerial Photographs

Direction	Description	
Subject Property	Based on aerial photographs, the subject property appears to be a	
	surface parking lot since prior to 1966.	
	The area north of the subject property has not undergone any	
North	significant changes since 1966 except for the periodic demolition of	
	some buildings and subsequent conversion to surface parking lots.	
	The parcels immediately east of the subject property have been	
	developed since prior to 1966. It appears the current Wells Fargo	
East	building was constructed between 1966 and 1984. Buildings that were	
	present prior to that time were apparently demolished to make room for	
	the building and parking lot.	
South	The area south of the subject property does not appear to have	
South	undergone any significant changes since 1966.	
	Over the years, the buildings located west of the subject property in the	
West	1966 photograph have been demolished and converted to surface	
vvest	parking for the Trinity Health complex located to the south. Only a	
	single storage building remains on the block.	



5.4.2 Historical Topographic Maps

The EDR Historical Topographic Map Report provided TriMedia with historical USGS topographic maps from 192, 1949, 1966, and 1979. The scale of the topographic maps does not provide any indication of changes in development in the area of the subject property, but all the maps clearly show the area as being commercially developed.

5.4.3 Historical City Directories

The EDR City Directory Abstract provided TriMedia with historical business directory (Polk's City Directory) listings for the subject property's address and addresses in proximity to the subject property. Listings (if listed) were provided from 1963 to 2012 at approximately six year intervals.

The subject property is only listed in the 1963 directory. Five addresses are listed, which indicates the subject property likely contained five separate buildings at that time. Listings included: Hardware Insurance Agency and American Hardware Mutual Insurance at 203 1st Avenue SW; United Funds Inc. and Waddell & Reed Inc. at 205 1st Avenue SW; Ward County Farm Bureau and Nodak Mutual Insurance at 207 1st Avenue SW; Mar-Win Development Company at 209-211 1st Avenue SW; and St. Paul Fire & Marine Insurance Co and The St. Paul Companies at 213 1st Avenue SW.

Based on City Directory listings, the area surrounding the subject property has been a mix of retail, commercial, medical, and government buildings since at least 1963. No listings were present which indicated a use that would constitute a REC for the site.

5.4.4 Historical Fire Insurance Maps

The EDR Certified Sanborn Map Report provided TriMedia with historical fire insurance maps (Sanborn Maps) from 1904, 1907, 1913, 1918, 1926, 1932, 1945, and 1952. Relevant uses of the subject property and surrounding properties are summarized below.



Historical Sanborn Maps

Year	Description
1904	The subject property contains a Baptist church at the south end and a livery, pool room, bicycle shop, and salvation army on the north end. Property to the west contains three small structures, likely residences. Property to the east contains a mercantile hotel and several residences. Information for property to the north and south were not available.
1907	The subject property contains a Presbyterian church at the north end and several residential dwellings on the remainder of the property. Property to the east and west consists of residential dwellings. Property to the south is residential, and property to the north is a mixture of residential dwellings and retail businesses.
1913	A machine shop has been added to the southeast portion of the subject property. Surrounding properties have become more developed, with property to the north becoming largely retail/commercial.
1918	The only significant change is the machine shop on the subject property has been converted to an automobile repair shop.
1926	The subject property remains largely unchanged, while a filling station has been added to the east at the intersection of Main Street and 3 rd Avenue SW, and a steam laundry is present to the west at the intersection of 2 nd Avenue SW and 1 st Street SW.
1932	The automobile repair shop now indicates that painting was also performed.
1945	The automobile repair shop is now listed as a merchandise warehouse, and the filling station to the east has been expanded.
1952	The warehouse has been converted to automobile sales and service.

The former presence of an automobile repair and painting shop on the subject property represents an REC.

5.5 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES

Historical information indicates that adjoining properties to the north and south have been developed since prior to 1904. Although property uses have changed over the years, adjoining properties have consisted of a mixture of residential, retail, commercial, medical, government, and religious uses.

6.0 SITE RECONNAISSANCE

6.1 METHODOLOGY AND LIMITING CONDITIONS

TriMedia, represented by Mr. Derek Senn, PE, Senior Environmental Engineer, conducted a site reconnaissance of the subject property on June 19, 2012. Weather conditions at the time of site reconnaissance were cloudy with a temperature of approximately 70 degrees Fahrenheit (°F). TriMedia did not recognize any indications that would imply environmental contamination on the subject property on June 19, 2012.



The site reconnaissance included the following:

- Observation of the subject property and adjacent properties for indications of RECs;
- Visual and physical observation of the periphery of the subject property and structures made by walking the perimeter of the subject property and crisscrossing the site to identify points of interest;
- Observation of surrounding properties.

6.2 GENERAL SITE SETTING

6.2.1 Current Uses of the Subject Property

The subject property located at 205 1st Street SW is currently a surface parking lot.

6.2.2 Past Uses of the Subject Property

Based on historical sources, the subject property was redeveloped as a surface parking lot sometime between 1963 and 1966. Prior to its redevelopment, it had been developed as a mixture of residential, retail, and commercial space. Refer to Appendix D for copies of the aerial photographs, topographic maps, and City Directories.

6.2.3 Current or Past Uses of Surrounding Properties

Properties surrounding the subject property have been and are still being used for commercial, residential, retail, medical, religious, and government purposes.

6.2.4 Geologic, Hydrogeologic, and Topographic Conditions

The topography of the subject property is a slight to moderate slope to the north. Assumed local groundwater flow is to the north based on the general topographic gradient and the location of the Souris River.

The underlying geology of the area consists of Cenozoic Era Tertiary System with Paleocene Series. The soil type in the area is characterized as well drained, deep loam with moderate infiltration rates. Soils immediately northwest of the subject property are gravelly loams with high infiltration rates.

6.2.5 General Description of Structures

There are no structures on the subject property.



6.2.6 Roads and Utilities

The subject property is bordered by 1st Street SW to the west, 2nd Avenue SW to the north, and unnamed alley to the east, and 3rd Avenue SW to the south. The subject property is an asphalt parking lot with two entrances; one each from the north and south through automated parking barriers. The parking barriers restrict access to the reserved portion of the parking lot. There is also parking available to the public that can be accessed through the alley. These parking areas are separated by steel guard rails. A pad mounted transformer is located at the northeast corner of the property, and several utility poles and light fixtures are present in and surrounding the parking lot.

6.3 SITE OBSERVATIONS

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table. Photographs of select items observed at the site are included in Appendix B.

Site Features

Category Item or Feature		Observed
	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
Site Operations,	Dry cleaning	
Processes, and	Photo processing	
Equipment	Laboratory hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	
	Other processes or equipment	
Aboveground	Aboveground storage tanks	
Chemical or Waste	Drums, barrels and/or containers ≥ 5 gallons	
Storage	MSDS	
	Underground storage tanks or ancillary UST	
	equipment	
Underground	Sumps, cisterns, catch basins and/or dry wells	
Chemical or Waste Grease traps		
Storage, Drainage or	Septic tanks and/or leach fields	
Collection Systems	Oil/water separators	
	Pipeline markers	
-	Interior floor drains	
Electrical	Pad or pole mounted transformers and/or capacitors	Х
Transformers/ PCBs	Other equipment	
	Stressed vegetation	
Releases or Potential	Stained soil	
Releases or Potential - Releases -	Stained pavement or similar surface	
Neleases -	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	



Category	Item or Feature	Observed
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or	
	free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent	
	discharges	
Other Notable Site Features	Surface water bodies	
	Quarries or pits	
	Wells	

Electrical Transformers/PCBs

Electrical

One utility owned pad-mounted transformer was observed in the northeastern corner of the subject property. The concrete pad did not show any evidence of staining. Transformers contain mineral oil, which may contain minor amounts of polychlorinated biphenyls (PCB) and could be considered "PCB contaminated" (PCB content of 50-499 parts per million).

The utility company maintains responsibility for the transformers. If the transformers were "PCB contaminated" the utility company is not required to replace the transformer fluids until a release is identified. Again, evidence of a current or prior release in the vicinity of the electrical transformer was not observed by TriMedia during the site reconnaissance.

7.0 INTERVIEWS

7.1 INTERVIEW WITH OWNER

Cindy Hemphill, Finance Director for the City of Minot, indicated that nobody with the City had any knowledge of the parcel.

7.2 INTERVIEW WITH SITE MANAGER

As the site is a surface parking lot, there is no site manager.

7.3 INTERVIEW WITH OCCUPANTS

The subject property is unoccupied.



7.4 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

TriMedia contacted the City of Minot Fire Department to see if they had any files for the subject property. Fire Marshall Ed Hausauer responded via telephone and said that although various buildings on the subject property had burned down in the past, the Fire Department did not have any records of former gas stations, storage tanks, or hazardous material releases. Refer to Appendix C for records documenting the FOIA request results.

7.5 INTERVIEWS WITH OTHERS

TriMedia did not interview others associated with the subject property.

8.0 FINDINGS

After a review of environmental records, site reconnaissance, review of historical data, and select interviews, TriMedia identified one REC associated with the subject property:

➤ The former presence of an automobile repair and painting shop constitutes an REC to the subject property.

9.0 OPINION

Based on reasonably ascertainable information compiled by TriMedia, as well as information and data provided by other select individuals and/or agencies during the completion of this Phase I ESA, it is our professional opinion the results of the Phase I ESA has revealed evidence suggesting the presence of current environmental concerns regarding the subject property. Further quantitative environmental investigations (i.e. Limited Phase II ESA) are recommended for the subject property.

10.0 CONCLUSIONS AND RECOMMENDATIONS

TriMedia has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 for property located at 205 1st Street SW in the City of Minot, ND. Any exceptions to, or deletions from, this practice are described in Section 11.0 of this report. This assessment has revealed the evidence of one REC in connection with the subject property. Based on the results of the Phase I ESA and in consideration of the intended continued use of the subject property, it is TriMedia's professional opinion that further environmental investigation is warranted to assess the presence of impacts that may be present at the subject property.



In consideration of the intended use of the subject property, the advancement of soil borings to collect representative soil and groundwater samples for laboratory analysis is warranted. The analytical parameters should include typical contaminants associated with automobile repair and painting operations (petroleum hydrocarbons, chlorinated solvents, and metals) and be compared to existing North Dakota Century Code criteria and related Division of Waste Management and Division of Water Quality guidance documents.

11.0 DEVIATIONS

TriMedia has performed this Phase I ESA in conformance with the scope and limitation of ASTM Practice E 1527-05. TriMedia relied on the information and data provided by other organizations specifically denoted herein. TriMedia used its education, experience and professional judgment to conduct this Phase I ESA.

12.0 ADDITIONAL SERVICES

No additional services were included as part of this Phase I ESA.



13.0 REFERENCES

Name of Data Source	Date of Initial Inquiry	Date of Most Recently Provided Information	Supporting Documentation
Mr. Matt Sloan Cypress Development 105 1 st Street SE Minot, ND 58701 (916) 616-7444	June 28, 2012	July 10, 2012	User Questionnaire and interview information
Ms. Cindy Hemphill (Finance Director) City of Minot 515 2 nd Avenue SW Minot, ND 58702 (701) 857-4774	July 3, 2012	July 10, 2012	Correspondence as noted in this report
Environmental Data Resources Inc. 440 Wheelers Farms Road Milford, CT 06460 1-800-352-6802	June 14, 2012	June 18, 2012	Sanborn maps, topographic maps, environmental database records, aerial photographs
Ed Hausauer Fire Marshall City of Minot Fire Department 2111 10 th Street SW Minot, ND 58702 (701) 857-4740	June 28, 2012	June 29, 2012	Correspondence as noted in this report
Emily Tintes Schiwal, MPH North Dakota Department of Health – Environmental Health Section Hazardous Waste Program 918 East Divide Avenue Bismarck, ND 58501-1947 (701) 328-5166 eschiwal@nd.gov	June 14, 2012	June 19, 2012	Correspondence as noted in this report
Kirk Johnson North Dakota Department of Health – Environmental Health Section Underground Storage Tank Program 918 East Divide Avenue Bismarck, ND 58501-1947 (701) 328-5167 kijohnson@nd.gov	June 14, 2012	July 21, 2012	Correspondence as noted in this report



14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

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

Velen/	John Common Comm	8/6/2012

Derek T. Senn, P.E.

Senior Environmental Engineer

Thomas L. Anthos, CIH Date

Principal Industrial Hygienist

1.1.54

15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Derek T. Senn, P.E., C.P.

Senior Environmental Engineer

Summary of Professional Experience

Mr. Senn is a Professional Engineer with extensive experience directing and managing environmental assessments and investigations, regulatory compliance, due diligence, and remedial action activities. He has conducted numerous environmental site assessments, baseline environmental assessments and remedial investigations (to ASTM standards) in support of clients throughout North America.

Mr. Senn draws from a strong regulatory background and is familiar with state and federal regulations and guidelines including RCRA, CERCLA, and SWMA. His regulatory expertise proves vital in demonstrating due diligence in property transactions and with returning contaminated sites to productive use. In addition, Senn has experience in environmental field activities and technical procedures used to gather environmental data.

As a Project Manager, Mr. Senn is also involved with subsurface soil and water characterization, hydrogeology, groundwater modeling activities, and treatment system design management, operation, and maintenance. He has utilized contaminant fate and transport modeling, and conducted feasibility studies that identify the most technically sound and cost-effective alternative for remediation of contaminated property.

Certifications

- OSHA 40-Hour Hazardous Waste Operations and Emergency Response
- Michigan (#6201055035), Indiana (#PE10910577), & North Dakota (#PE-8039) Professional Engineer (P.E.)
- Certified Underground Storage Tank Professional (#1116)
- American Red Cross Adult CPR and Basic First Aid
- State of Michigan Industrial and Commercial Waste Water Treatment Plant Operator Certification A-2d, B-2c and B-3b

Education

B.S. – Geological Engineering,
 University of North Dakota, Grand Forks, North Dakota

Affiliations

- National Society of Professional Engineers
- National Groundwater Association
- Michigan Association of Environmental Professionals
- Association of Environmental & Engineering Geologists
- > ASTM Subcommittee on Environmental Risk Management



Thomas L. Anthos, CIH

Principal Industrial Hygienist

Summary of Professional Experience

Mr. Anthos has over eighteen years of diverse expertise with industrial hygiene and environmental compliance projects. Over the course of his career, Mr. Anthos has managed all aspects of industrial hygiene projects including initial and baseline surveys of work areas and operations to identify and evaluate potential worker health risks. He is also well versed in regulatory compliance activities including, environmental/facility compliance audits, environmental assessments and due diligence evaluations.

Mr. Anthos designs and oversees industrial hygiene projects ranging from large-scale multiple building industrial complexes to small-scale, budget sensitive project concerns. He has completed occupational exposure monitoring studies involving silica in the construction and surface mining industries, hexavalent chromium exposure during power plant maintenance activities, and particulate exposure within the indoor environment.

Past clients have included explosive manufacturers, surface mining operations, national railroad concerns, power plants, foundries, water treatment plants, and paper mills. Mr. Anthos has also been a technical expert for several industrial hygiene related lawsuits.

Certifications

- Board Certified in the comprehensive practice of industrial hygiene by the American Board of Industrial Hygiene, Certificate Number 9000
- Certified Hazardous Materials Manager
- > OSHA 40-Hour Hazardous Waste Site Operations (supervisor)
- Licensed Asbestos Inspector (MI, WI, MT)
- NIOSH Accredited Phase Contrast Microscopist

Education

B.S. - Biological Sciences,
 Michigan Technological University, Houghton, Michigan

Professional Affiliations

- American Industrial Hygiene Association
- American Board of Industrial Hygiene
- Peer Review Board IICRC S520 Mold Remediation Guidelines



Phase I Environmental Site Assessment APPENDICES

Appendix A Figures

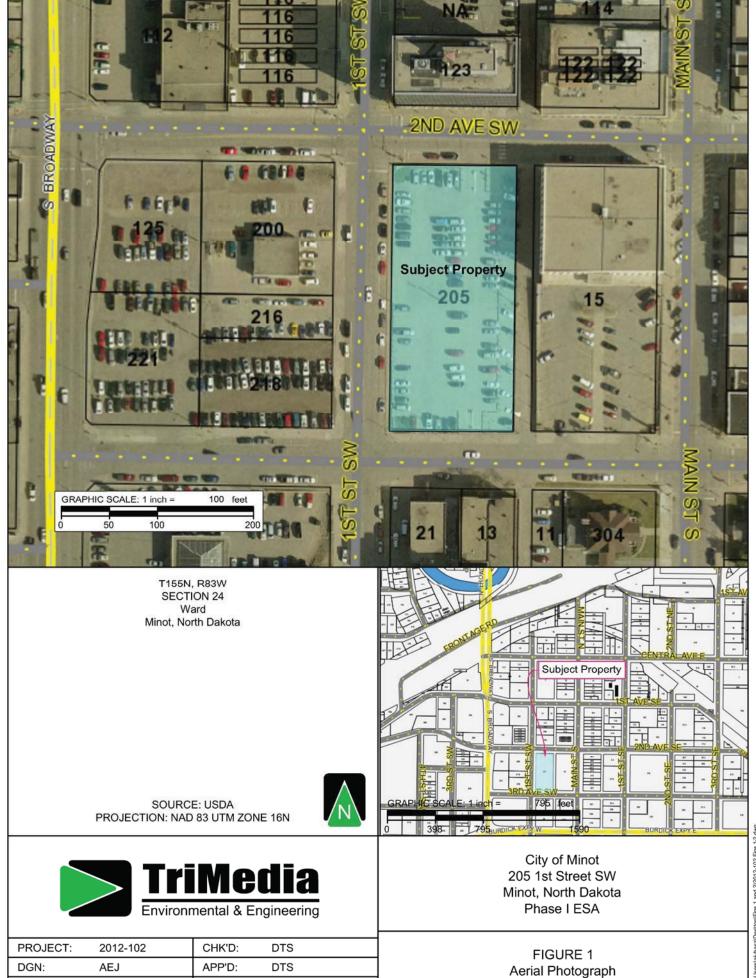
Appendix B Photographic Documentation
Appendix C Regulatory Documentation
Appendix D Historical Documentation



Appendix A

Figures



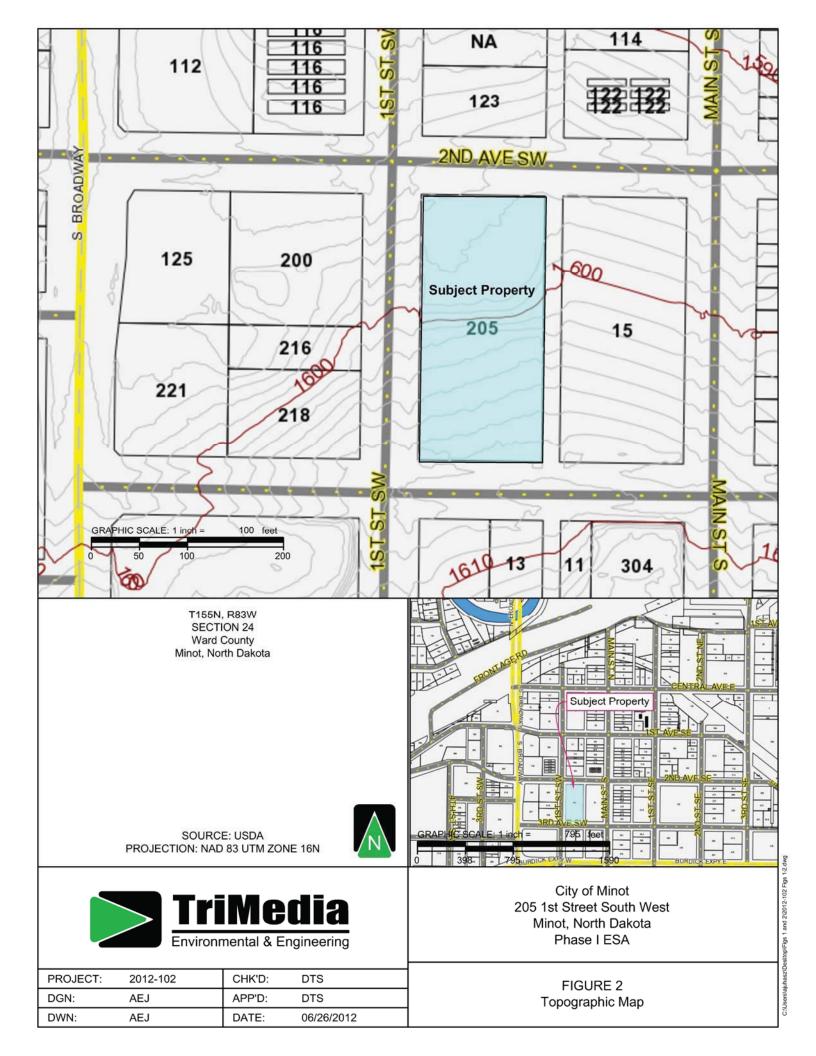


AEJ

DATE:

06/26/2012

DWN:



Appendix B

Photographic Documentation





Date: 6/19/2012 Direction: S Taken By: DTS

Description: SW corner of subject property viewed from center of western edge of property



Date: 6/19/2012 Direction: E Taken By: DTS
Description: Middle of subject property viewed from western edge of property

CITY OF MINOT PHASE I ESA – 205 1ST STREET SW

MINOT, NORTH DAKOTA



Date: 6/19/2012 Direction: N Taken By: DTS

Description: NW corner of subject property viewed from center of western edge of property



Date: 6/19/2012 Direction: NW Taken By: DTS
Description: NE corner of western adjacent property viewed from center of western edge of property



Date: 6/19/2012 Direction: W Taken By: DTS

Description: Western adjacent property viewed from center of western edge of subject property



Date: 6/19/2012 Direction: SW Taken By: DTS
Description: SE corner of western adjacent property viewed from center of western edge of subject property



Date: 6/19/2012 Direction: SW Taken By: DTS

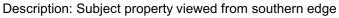
Description: Parcel SW of subject property viewed from SW corner of subject property



Date: 6/19/2012 Direction: S Taken By: DTS
Description: Thompson – Larson Funeral Home located south of subject property



Date: 6/19/2012 Direction: N Taken By: DTS





Date: 6/19/2012 Direction: S Taken By: DTS
Description: Thompson Apartment building located south of subject property



Date: 6/19/2012 Direction: N Taken By: DTS

Description: Subject property viewed from southern edge



Date: 6/19/2012 Direction: SE Taken By: DTS
Description: Thomas Family Funeral Home located SE of subject property



Date: 6/19/2012 Direction: E Taken By: DTS Description: Wells Fargo parking lot located east of the subject property



Date: 6/19/2012 Direction: NE Taken By: DTS Description: Wells Fargo building and parking lot

CITY OF MINOT PHASE I ESA – 205 1^{ST} STREET SW

MINOT, NORTH DAKOTA



Date: 6/19/2012 Direction: S
Description: Southern portion of parking lot

Taken By: DTS



Date: 6/19/2012 Direction: NE Taken By: DTS

Description: Property located NE of subject property



Date: 6/19/2012 Direction: W Description: Northern end of subject property Taken By: DTS



Date: 6/19/2012 Direction: S Description: Eastern end of subject property



Date: 6/19/2012 Direction: NW Taken By: DTS

Description: Property located NW of subject property



Date: 6/19/2012 Direction: W Taken By: DTS
Description: Property located west of subject property viewed from NW corner

of subject property

CITY OF MINOT PHASE I ESA – 205 1ST STREET SW

MINOT, NORTH DAKOTA



Date: 6/19/2012 Direction: S Taken By: DTS Description: Small unpaved area located at SW corner of subject property

Appendix C

Regulatory Documentation (available on electronic version only)



Minot Site 1
1st Street SW/3rd Avenue SW
Minot, ND 58701

Inquiry Number: 03344483.2r

June 14, 2012

The EDR Radius Map™ Report with GeoCheck®

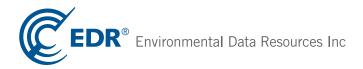


TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map.	3
Map Findings Summary	4
Map Findings	7
Orphan Summary	
Government Records Searched/Data Currency Tracking	GR-1
GEOCHECK ADDENDUM	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map.	A-5
Physical Setting Source Map.	A-13
Physical Setting Source Map Findings.	A-15
Physical Setting Source Records Searched	A-61

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1ST STREET SW/3RD AVENUE SW MINOT, ND 58701

COORDINATES

Latitude (North): 48.2339000 - 48° 14' 2.04" Longitude (West): 101.2941000 - 101° 17' 38.76"

Universal Tranverse Mercator: Zone 14 UTM X (Meters): 329645.1 UTM Y (Meters): 5344623.5

Elevation: 1612 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 48101-B3 MINOT, ND

Most Recent Revision: 1979

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010 Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	National Priority List

Proposed NPL.....Proposed National Priority List Sites NPL LIENS..... Federal Superfund Liens Federal Delisted NPL site list Delisted NPL..... National Priority List Deletions Federal CERCLIS list CERCLIS.... FEDERAL FACILITY..... Federal Facility Site Information listing Federal CERCLIS NFRAP site List CERC-NFRAP..... CERCLIS No Further Remedial Action Planned Federal RCRA CORRACTS facilities list CORRACTS..... Corrective Action Report Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Treatment, Storage and Disposal Federal RCRA generators list RCRA-LQG______RCRA - Large Quantity Generators RCRA-SQG..... RCRA - Small Quantity Generators Federal institutional controls / engineering controls registries US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL..... Sites with Institutional Controls Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent CERCLIS NPL list. State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Solid Waste Landfills/Special Use Landfills State and tribal leaking storage tank lists INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists AST..... Aboveground Storage Tank Listing

INDIAN UST...... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL.....Land Use Controls Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... List of Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI....... Open Dump Inventory SWRCY...... Recycling Centers

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS.....Land Use Control Information System

Records of Emergency Release Reports

HMIRS_____ Hazardous Materials Information Reporting System

SPILLS..... State Spills

Other Ascertainable Records

CONSENT...... Superfund (CERCLA) Consent Decrees

TRIS...... Toxic Chemical Release Inventory System

TSCA...... Toxic Substances Control Act

FTTS......FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS...... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

FINDS______Facility Index System/Facility Registry System RAATS______RCRA Administrative Action Tracking System

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing COAL ASH EPA...... Coal Combustion Residues Surface Impoundments List

EPA WATCH LIST..... EPA WATCH LIST

PCB TRANSFORMER PCB Transformer Registration Database COAL ASH DOE Sleam-Electric Plan Operation Data 2020 CORRECTIVE ACTION 2020 Corrective Action Program List

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/15/2012 has revealed that there is

1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRINITY HOSPITAL	1 BURDICK EXPRESSWAY	N SSE 0 - 1/8 (0.070 mi.)	C6	11

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health's LUST List

A review of the LUST list, as provided by EDR, and dated 03/05/2012 has revealed that there are 12 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MINOT LAUNDRY AND CLEANERS INC Facility Status: Site Cleanup Completed	200 1ST STREET SOUTHWES	NNW 0 - 1/8 (0.007 mi.)	1	7
M AND H GAS Facility Status: Site Cleanup Completed Facility Status: Site Cleanup Completed	25 EAST BURDICK EXPRESS	SE 0 - 1/8 (0.083 mi.)	8	13
HOLIDAY STATION STORE 110 Facility Status: Site Cleanup Completed	700 NORTH BROADWAY	SSW 1/4 - 1/2 (0.252 mi.)	20	34
RENT A WRECK Facility Status: Site Cleanup Completed	529 BURDICK EXPRESSWAY	WSW 1/4 - 1/2 (0.281 mi.)	21	34
MINI MART 673 Facility Status: Site Investigation Continuin	810 NORTH BROADWAY g	S 1/4 - 1/2 (0.350 mi.)	E25	36
CAMPUS TEXACO Facility Status: Site Cleanup Completed	815 NORTH BROADWAY	S 1/4 - 1/2 (0.352 mi.)	E26	37
GATEWAY SAVINGS AND LOAN Facility Status: Site Cleanup Completed	10115 S BROADWAY	S 1/4 - 1/2 (0.490 mi.)	28	38
Lower Elevation	Address	Direction / Distance	Map ID	Page
BNSF GAVIN YARD Facility Status: Site Cleanup Completed Facility Status: Site Investigation Continuin	HWY 12 AND 12N	NE 1/8 - 1/4 (0.202 mi.)	16	32
MINOT FARMERS ELEVATOR Facility Status: Site Cleanup Completed	PO BOX 1748	NNE 1/4 - 1/2 (0.285 mi.)	22	35
MINI MART 671 Facility Status: Site Cleanup Completed	409 SE 4TH AVENUE	ESE 1/4 - 1/2 (0.330 mi.)	D23	35
NORTH DAKOTA CONCRETE PRODUCTS Facility Status: Site Cleanup Completed	5TH AVENUE AND 4TH ST N	ESE 1/4 - 1/2 (0.334 mi.)	D24	36
AMOCO SS 8643 Facility Status: Site Cleanup Completed	300 SE 5TH ST	E 1/4 - 1/2 (0.405 mi.)	27	37

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health's UST Data (Facility & Owner Address of the Tanks Currently Recorded in North Dakota).

A review of the UST list, as provided by EDR, and dated 03/05/2012 has revealed that there are 14 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MINOT LAUNDRY AND CLEANERS INC	200 1ST STREET SOUTHWES	NNW 0 - 1/8 (0.007 mi.)	1	7
TRINITY HOSPITAL	BURDICK EXPRESSWAY AT N	/ISSE 0 - 1/8 (0.061 mi.)	C5	10
M AND H GAS	25 EAST BURDICK EXPRESS	SE 0 - 1/8 (0.083 mi.)	8	13
SWEETHEART BAKERYTRUCK SHOP	300 3RD STREET SW	W 1/8 - 1/4 (0.126 mi.)	11	23
WESTLIE MOTOR COMPANY, INC.	500 S BROADWAY	SSW 1/8 - 1/4 (0.150 mi.)	14	27
KEMPER CONSTRUCTION COMPANY	309 PARK STREET	WSW 1/8 - 1/4 (0.204 mi.)	17	33
Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTHERN STATES POWER COMPANY	24 SE 2ND AVENUE	ENE 0 - 1/8 (0.054 mi.)	A3	10
US WEST COMMUNICATIONS	201 SOUTH BROADWAY	WNW 0 - 1/8 (0.056 mi.)	B4	10
SWEETHEART BAKERY	220 SOUTH BROADWAY	WNW 0 - 1/8 (0.075 mi.)	B7	13
U S GOVERNMENT GSA	100 1ST STREET SW	N 0 - 1/8 (0.086 mi.)	9	14
I KEATING INC	10 SOUTH BROADWAY	NNW 1/8 - 1/4 (0.160 mi.)	15	32
BNSF GAVIN YARD	HWY 12 AND 12N	NE 1/8 - 1/4 (0.202 mi.)	16	32
BURLINGTON NORTHERN RAILROAD C	MAIN & 1ST AVENUE NORTH	NNE 1/8 - 1/4 (0.243 mi.)	18	33
FARMERS UNION OIL COMPANY	215 EAST CENTRAL AVENUE	NE 1/8 - 1/4 (0.247 mi.)	19	33

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/15/2012 has revealed that there are 4 RCRA-NonGen sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHERWIN WILLIAMS CO	213 SOUTH MAIN ST	ENE 0 - 1/8 (0.037 mi.)	A2	7
CARQUEST WESTERN AUTO	300 3RD AVE S.W.	WSW 1/8 - 1/4 (0.130 mi.)	12	23
WESTLIE MOTOR COMPANY, INC.	500 S BROADWAY	SSW 1/8 - 1/4 (0.150 mi.)	14	27
Lower Elevation	Address	Direction / Distance	Map ID	Page
BRAY'S CLEANERS	10 1ST ST NW	N 1/8 - 1/4 (0.145 mi.)	13	25

MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the MINES list, as provided by EDR, and dated 08/18/2011 has revealed that there is 1 MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AGGREGATE CONSTRUCTION IN		SW 0 - 1/8 (0.086 mi.)	10	14

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name Database(s)

MINOT WTP
MINOT TRAIN DERAILMENT
NDSU RADIOACTIVE WASTE SITE
SOURIS RIVER - WEST MINOT
HARRIS EQUIPMENT INC
WALSH FARMS

NPDES
CERCLIS-NFRAP
CERCLIS-NFRAP
LUST,UST
UST

FOLEY EQUIPMENT INC

BUTLER MACHINERY CO - MINOT

NORTHERN STATES POWER CO - MINOT

FINDS,RCRA-NLR

FINDS,RCRA-NLR

NORTHERN STATES POWER CO - MINOT FINDS,RCRA-NLR
MINOT CIVIC CENTER-CITY OF FINDS,RCRA-NLR
FERRELLGAS L.P. - MINOT FINDS,RCRA-NLR
NORTH DAKOTA HWY DEPT FINDS,RCRA-NLR,MANIFEST

CHS PETROLEUM TERMINAL - MINOT FINDS,RCRA-CESQG
US HWY 83 / 9 MILES S OF MINOT ERNS
4 MI W. ON HWY 2 AND S2 MINOT TERM ERNS
MINOT MOBILE ESTATES FINDS

MINOT MOBILE ESTATES

MINOT MOBILE HOME SERVICE CENTER I

MINOT / CITY WELLS

FINDS

FINDS

MINOT PARK DIST (BISON PLT)

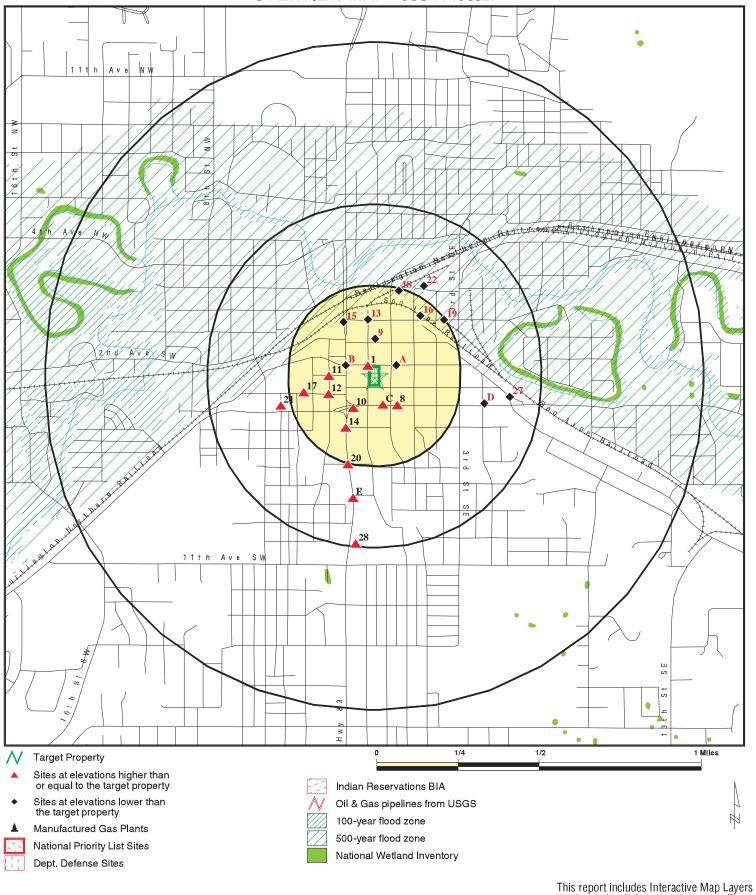
MINOT PARK DIST (BISON PLT)

HIST FTTS INSP

MINOT PARK DIST (BISON PLT)

FTTS

OVERVIEW MAP - 03344483.2r



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

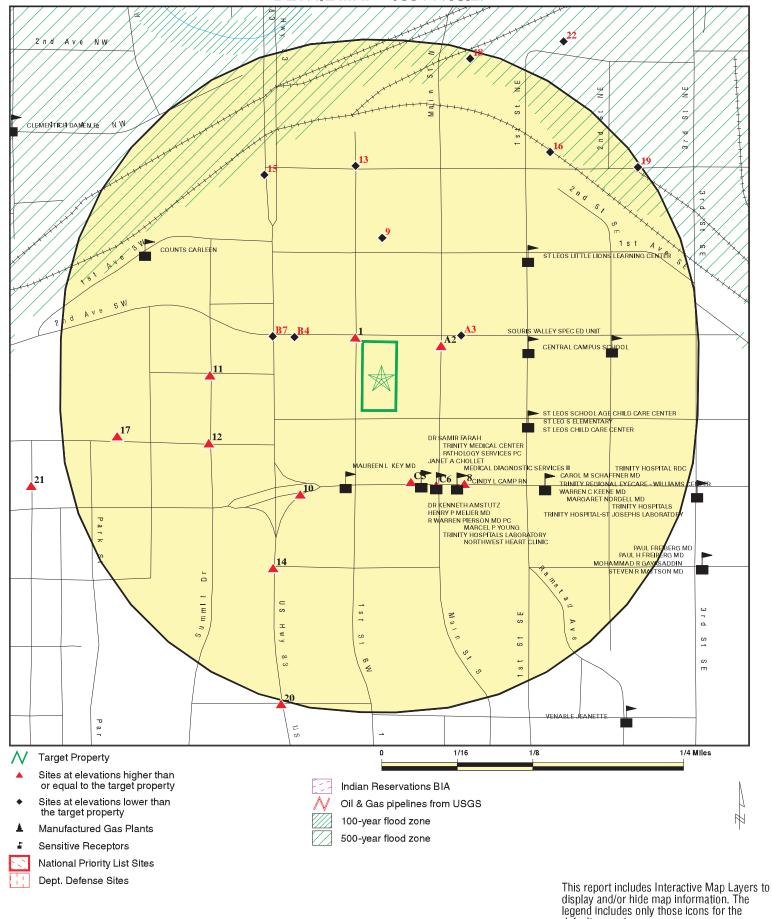
SITE NAME: Minot Site 1

ADDRESS: 1st Street SW/3rd Avenue SW

Minot ND 58701 LAT/LONG: 48.2339 / 101.2941 CLIENT: TriMedia CONTACT: Derek Senn INQUIRY#: 03344483.2r

DATE: June 14, 2012 12:01 pm

DETAIL MAP - 03344483.2r



SITE NAME: Minot Site 1

ADDRESS: 1st Street SW/3rd Avenue SW
Minot ND 58701

LAT/LONG: 48.2339 / 101.2941

CLIENT: TriMedia
CONTACT: Derek Senn
INQUIRY #: 03344483.2r
DATE: June 14, 2012 12:02 pm

default map view.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.500 1.000		0	0 0	0 0	NR 0	NR NR	0 0
Federal CERCLIS NFRAF	site List							
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACT	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 1	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 1
Federal institutional contended engineering controls reg								
US ENG CONTROLS US INST CONTROL	0.500 0.500		0 0	0	0	NR NR	NR NR	0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equival	lent CERCLIS	;						
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
State and tribal landfill at solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking s	torage tank li	ists						
LUST INDIAN LUST	0.500 0.500		2 0	1 0	9 0	NR NR	NR NR	12 0
State and tribal registere	d storage tan	k lists						
UST	0.250		7	7	NR	NR	NR	14

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST INDIAN UST FEMA UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institution control / engineering con		;						
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary	cleanup site	s						
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfield	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS							
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / So Waste Disposal Sites	olid							
DEBRIS REGION 9 ODI SWRCY INDIAN ODI	0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US CDL CDL US HIST CDL	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
Local Land Records								
LIENS 2 LUCIS	TP 0.500		NR 0	NR 0	NR 0	NR NR	NR NR	0 0
Records of Emergency R	elease Repor	ts						
HMIRS SPILLS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Reco	ords							
RCRA-NonGen DOT OPS DOD FUDS CONSENT ROD UMTRA MINES TRIS	0.250 TP 1.000 1.000 1.000 1.000 0.500 0.250 TP		1 NR 0 0 0 0 0 1 NR	3 NR 0 0 0 0 0 0 NR	NR NR 0 0 0 0 0 NR NR	NR NR 0 0 0 0 NR NR NR	NR NR NR NR NR NR NR	4 0 0 0 0 0 0 0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	Ő
HIST FTTS	TP		NR	NR	NR	NR	NR	Ō
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
2020 CORRECTIVE ACTIVE	ON0.250		0	0	NR	NR	NR	0
EDR PROPRIETARY RECOR	RDS							
EDR Proprietary Records	S							
Manufactured Gas Plants	1.000		0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MINOT LAUNDRY AND CLEANERS INC LUST U003542357 NNW

200 1ST STREET SOUTHWEST UST N/A

< 1/8 MINOT, ND 58701

0.007 mi. 36 ft.

LUST: Relative:

Facility ID: 2222 Higher

Facility Status: Site Cleanup Completed

Actual: Facility Latitude: 48.234282 1613 ft. Facility Longitude: -101.29462 Status Date: 07/17/1993

Event ID: 2222

Owner Name: MINOT LAUNDRY AND CLEANERS INC

Owner Address: 200 SW 1ST STREET Owner City, St, Zip: MINOT, ND 58701

UST:

Facility ID: 2222 Facility Phone: Not reported Latitude: 48.2342829 -101.29462 Longitude:

Owner Name: MINOT LAUNDRY AND CLEANERS INC

Owner Address: 200 SW 1ST STREET Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

A2 SHERWIN WILLIAMS CO RCRA-NonGen 1000371357 **ENE** NDD000690636 213 SOUTH MAIN ST **FINDS**

MINOT, ND 58701 < 1/8

0.037 mi.

194 ft. Site 1 of 2 in cluster A

RCRA-NonGen: Relative:

Date form received by agency: 08/18/1980 Higher

SHERWIN WILLIAMS CO Facility name: Actual: Facility address: 213 SOUTH MAIN ST 1617 ft. MINOT, ND 58701

> NDD000690636 EPA ID: Mailing address: SOUTH MAIN ST

MINOT, ND 58701 H.B. WILLIAMS JR. Contact: Contact address: 213 SOUTH MAIN ST

MINOT, ND 58701

Contact country: US

Contact telephone: (216) 566-3096 Contact email: Not reported EPA Region: 80

Classification: Non-Generator

Handler: Non-Generators do not presently generate hazardous waste Description:

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

SHERWIN WILLIAMS CO (Continued)

1000371357

EDR ID Number

Furnace exemption: No Used oil fuel burner: No Used oil processor: Nο User oil refiner: No Used oil fuel marketer to burner: Nο Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: Nο

Hazardous Waste Summary:

Waste code: D000
Waste name: Not Defined

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE

OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: F002

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

 ${\sf METHYLENE}\ {\sf CHLORIDE}, {\sf TRICHLOROETHYLENE}, {\sf 1,1,1-TRICHLOROETHANE},$

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR

F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR

Direction Distance Elevation

tion Site Database(s) EPA ID Number

SHERWIN WILLIAMS CO (Continued)

1000371357

EDR ID Number

MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U002

Waste name: ACETONE (I)

Waste code: U031

Waste name: 1-BUTANOL (I)

Waste code: U112

Waste name: ACETIC ACID ETHYL ESTER (I)

Waste code: U150

Waste name: MELPHALAN

Waste code: U154

Waste name: METHANOL (I)

Waste code: U159

Waste name: 2-BUTANONE (I,T)

Waste code: U161

Waste name: METHYL ISOBUTYL KETONE (I)

Waste code: U220

Waste name: BENZENE, METHYL-

Waste code: U239

Waste name: BENZENE, DIMETHYL- (I,T)

Violation Status: No violations found

FINDS:

Registry ID: 110004063423

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

A3 NORTHERN STATES POWER COMPANY UST U003036501 N/A

ENE 24 SE 2ND AVENUE MINOT, ND 58701 < 1/8

0.054 mi.

284 ft. Site 2 of 2 in cluster A

UST: Relative:

Facility ID: 2890 Lower

Facility Phone: Not reported Actual: Latitude: 48.2342480 1608 ft. Longitude: -101.29257

> Owner Name: NSP MINNESOTA DBA XCEL ENERGY

Owner Address: 414 NICOLLET MALL (MP7) Owner City, St, Zip: MINNEAPOLIS, MN 55401-1993

Facility Status: Inactive

U003036537 В4 **US WEST COMMUNICATIONS** UST N/A

WNW **201 SOUTH BROADWAY**

< 1/8 MINOT, ND 58701

0.056 mi.

298 ft. Site 1 of 2 in cluster B

UST: Relative:

Facility ID: 1930 Lower

Facility Phone: Not reported Actual: Latitude: 48.2349370 1610 ft. Longitude: -101.29586 Owner Name: R E WALSTAD

Owner Address: 2512 BELAIR DRIVE Owner City, St, Zip: MINOT, ND 58702

Facility Status: Inactive

C5 UST U003036531 TRINITY HOSPITAL N/A

SSE **BURDICK EXPRESSWAY AT MAIN STREET** MINOT, ND 58701 < 1/8

0.061 mi.

320 ft. Site 1 of 2 in cluster C

UST: Relative:

Facility ID: 2272 Higher

Facility Phone: 7018575145 Actual: Latitude: 48.2319469 1631 ft. Longitude: -101.29432

Owner Name: TRINITY MEDICAL CENTER

Owner Address: BURDICK EXPRESSWAY AT MAIN STREET

Owner City, St, Zip: MINOT, ND 58701

Facility Status: Active

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

C6 TRINITY HOSPITAL RCRA-CESQG 1004747520 1 BURDICK EXPRESSWAY W SSE FINDS NDD071762694

MINOT, ND 58701 < 1/8

0.070 mi.

371 ft. Site 2 of 2 in cluster C

Relative:

RCRA-CESQG:

Date form received by agency: 12/22/1988 Higher

TRINITY HOSPITAL Facility name: Facility address:

Actual: 1630 ft. 1 BURDICK EXPRESSWAY W MINOT, ND 58701

EPA ID: NDD071762694

PO BOX 5020 Mailing address:

MINOT, ND 587025020

Contact: DAVID DANIELSON Contact address: PO BOX 5020

MINOT, ND 587025020

Contact country: US

(701) 857-5145 Contact telephone: Contact email: Not reported

EPA Region: 80 Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time: or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: **COMMUNITY HOSPITAL** Owner/operator address: DATA NOT REQUESTED

DATA NOT REQUESTED, ND 99999

Owner/operator country: Not reported Owner/operator telephone: (999) 999-9999 Legal status: Private Owner/Operator Type: Owner

Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Map ID MAP FINDINGS
Direction

Distance Elevation Site

Site Database(s) EPA ID Number

TRINITY HOSPITAL (Continued)

1004747520

EDR ID Number

Used oil fuel burner:

Used oil processor:

User oil refiner:

Used oil fuel marketer to burner:

Used oil Specification marketer:

Used oil transfer facility:

Used oil transporter:

No

Used oil transporter:

No

Hazardous Waste Summary:

Waste code: D000
Waste name: Not Defined

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE

OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 12/26/2002

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

FINDS:

Registry ID: 110004064734

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

North Dakota Facility Profile (ND-FP) contains facility based, environmental information for the State of North Dakota.

Direction Distance

Elevation Site Database(s) EPA ID Number

TRINITY HOSPITAL (Continued)

1004747520

EDR ID Number

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

B7 SWEETHEART BAKERY UST U003036525
WNW 220 SOUTH BROADWAY N/A

< 1/8 MINOT, ND 58701

0.075 mi.

394 ft. Site 2 of 2 in cluster B

Relative: UST:

Lower Facility ID: 495

Actual: Latitude: 48.2345499
1609 ft. Longitude: -101.29608

Owner Name: INTERSTATE BRANDS CORPORATION

Owner Address: 220 SOUTH BROADWAY Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

8 M AND H GAS LUST U003036451 SE 25 EAST BURDICK EXPRESSWAY UST N/A

< 1/8 MINOT, ND 58701

0.083 mi. 439 ft.

Relative: LUST:

Higher Facility ID: 1467

Facility Status: Site Cleanup Completed
Actual: Facility Latitude: 48.232398

 Actual:
 Facility Latitude:
 48.232398

 1628 ft.
 Facility Longitude:
 -101.29261

 Status Date:
 09/17/1993

Event ID: 1467
Owner Name: MILLER AND HOLMES INC.
Owner Address: 2311 ONEIL ROAD

Owner City,St,Zip: HUDSON, WI 54016

Facility ID: 1467

Facility Status: Site Cleanup Completed

 Facility Latitude:
 48.232398

 Facility Longitude:
 -101.29261

 Status Date:
 12/28/2010

 Event ID:
 1467-2

Owner Name: MILLER AND HOLMES INC.

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

M AND H GAS (Continued) U003036451

Owner Address: 2311 ONEIL ROAD HUDSON, WI 54016 Owner City, St, Zip:

UST:

Facility ID: 1467 Facility Phone: 7018522924 Latitude: 48.2323980 -101.29261 Longitude:

Owner Name: MILLER AND HOLMES INC. Owner Address: 2311 ONEIL ROAD Owner City, St, Zip: HUDSON, WI 54016

Facility Status: Active

U S GOVERNMENT GSA UST U003542359 N/A

100 1ST STREET SW North < 1/8 MINOT, ND 58701

0.086 mi. 454 ft.

UST: Relative:

Facility ID: 2247 Lower

Facility Phone: Not reported Actual: 48.2352810 Latitude: 1597 ft. Longitude: -101.29463

> Owner Name: U S GOVERNMENT GSA Owner Address: 220 EAST ROSSER Owner City, St, Zip: BISMARCK, ND 58501

Facility Status: Inactive

AGGREGATE CONSTRUCTION IN 10 MINES 1011200293 N/A

SW

< 1/8 WARD (County), ND

0.086 mi. 456 ft.

MINES: Relative: Mine ID: Higher

3200791 SIC code(s): 14410 00000 00000 00000 00000 00000

Actual: Entity name:

1628 ft. Company: AGGREGATE CONSTRUCTION IN

State FIPS code: 38 County FIPS code: 101 Status: 2

20090429 Status date: Operation Class: non-Coal Mining

Number of shops: 0 0 Number of plants: Latitude: 48 13 57 Longitude: 101 17 44

Violations Details:

Violation Number: 7938159 Mine Name: Rental-1 Date Issued: 10/25/2005 Address Type: MineLocation

Direction Distance Elevation

tion Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 10/25/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 99.00 69.30 Paid Penalty: Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 69.30 Year: 2005

Minot, ND 58702

County Name: Ward

P.O. Box: Not reported

Violation Number: 7938160
Mine Name: Rental-1
Date Issued: 10/25/2005
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel Ownership Date: 06/01/2001

Mine Type: Surface Mine Status: Intermittent 04/29/2009 Status Date: Action Type: 104(a) 10/25/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 42.00 Assessment Status code: Closed Assess. Case Status code: Proposed 42.00 Assessment Amount: 2005 Year:

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 6328584
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 05/15/2009 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2009

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 6328585
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 05/14/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 362.00 362.00 Paid Penalty: Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 362.00 Year: 2009

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 6328586
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

Mine Type: Surface Intermittent Mine Status: Status Date: 04/29/2009 Action Type: 104(a) 05/28/2009 Date Abated: Citation Citation/Order: Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: 2009 Year:

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 6328587 Mine Name: Rental-1 05/14/2009 Date Issued: Address Type: MineLocation Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 05/21/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: 243.00 Proposed Penalty: Paid Penalty: 121.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 121.00

Minot, ND 58702

2009

County Name: Ward P.O. Box: Not reported

Year:

Violation Number: 6328588 Mine Name: Rental-1 Date Issued: 05/14/2009 Address Type: MineLocation Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Map ID MAP FINDINGS
Direction

Direction Distance

Elevation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Action Type: 104(a) 05/21/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2009

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 6328589
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Surface Mine Type: Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 05/15/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount:

Minot, ND 58702

2009

County Name: Ward P.O. Box: Not reported

Year:

Violation Number: 6328590
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001
Mine Type: Surface
Mine Status: Intermittent
Status Date: 04/29/2009
Action Type: 104(a)
Date Abated: 05/14/2009
Citation/Order: Citation

Direction Distance Elevation

Site Database(s) **EPA ID Number**

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Sig and Sub Designation: N 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: 2009 Year:

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

6329075 Violation Number: Mine Name: Rental-1 Date Issued: 12/16/2009 Address Type: MineLocation Address: Portable

Aggregate Construction Inc Operator:

Contractor ID: Not reported Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 12/16/2009 Citation/Order: Citation Sig and Sub Designation:

Proposed Penalty: Not reported Paid Penalty: Not reported Assessment Status code: Not reported Assess. Case Status code: Not reported Assessment Amount: Not reported Year: 2009

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7939682 Mine Name: Rental-1 Date Issued: 11/07/2006 Address Type: MineLocation Address: Portable

Aggregate Construction Inc Operator:

Contractor ID: Not reported Robert E Cogdill Controller Name:

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 11/07/2006 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 60.00

Map ID MAP FINDINGS
Direction

Direction

Elevation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2006

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7939683
Mine Name: Rental-1
Date Issued: 11/07/2006
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel Ownership Date: 06/01/2001

Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 11/07/2006 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 60.00 Assessment Status code: Closed Assess. Case Status code: Proposed

> 2006 Minot, ND 58702

60.00

County Name: Ward
P.O. Box: Not reported

Assessment Amount:

Year:

Violation Number: 7939684
Mine Name: Rental-1
Date Issued: 11/07/2006
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel Ownership Date: 06/01/2001

Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 12/21/2006 Citation/Order: Citation Sig and Sub Designation: 60.00 Proposed Penalty: Paid Penalty: 60.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 60.00

Direction Distance Elevation

vation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Year: 2006

Minot, ND 58702
County Name: Ward
P.O. Box: Not reported

Violation Number: 7939411
Mine Name: Rental-1
Date Issued: 06/21/2005
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent 04/29/2009 Status Date: Action Type: 104(a) 07/12/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 48.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 48.00 Year: 2005

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7939412
Mine Name: Rental-1
Date Issued: 06/21/2005
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 07/12/2005 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 124.00 91.40

Proposed Penalty: 124.00
Paid Penalty: 91.40
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 91.40
Year: 2005

Minot, ND 58702

County Name: Ward

Direction Distance Elevation

evation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

P.O. Box: Not reported

Violation Number: 7939413
Mine Name: Rental-1
Date Issued: 06/21/2005
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 07/12/2005 Citation/Order: Citation Sig and Sub Designation: 124.00 Proposed Penalty: Paid Penalty: 91.40 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 91.40

Minot, ND 58702

2005

County Name: Ward P.O. Box: Not reported

Year:

Violation Number: 7939414
Mine Name: Rental-1
Date Issued: 06/21/2005
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 07/12/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 60.00 Paid Penalty: 48.00 Closed Assessment Status code: Assess. Case Status code: Proposed 48.00 Assessment Amount: Year: 2005

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7939415

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

Mine Name: Rental-1 06/21/2005 Date Issued: Address Type: MineLocation Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 07/12/2005 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 124.00 Paid Penalty: 99.20 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 99.20 Year: 2005

Minot. ND 58702

County Name: Ward P.O. Box: Not reported

SWEETHEART BAKERYTRUCK SHOP 11

UST U003036526

FINDS

N/A

300 3RD STREET SW West 1/8-1/4 MINOT, ND 58701

0.126 mi. 666 ft.

UST: Relative:

Facility ID: 3003 Higher

Facility Phone: Not reported Actual: Latitude: 48.2330200 1621 ft. Longitude: -101.29716

> Owner Name: INTERSTATE BRANDS CORPORATION

Owner Address: 220 SOUTH BROADWAY Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

12 **CARQUEST WESTERN AUTO** RCRA-NonGen 1004747510

wsw 300 3RD AVE S.W. 1/8-1/4

0.130 mi. 685 ft.

MINOT, ND 58701

RCRA-NonGen: Relative:

Date form received by agency: 05/25/1990 Higher

Facility name: CARQUEST WESTERN AUTO

Actual: Facility address: 300 3RD AVE S.W. 1624 ft. MINOT. ND 58701

> EPA ID: NDD031856503 Mailing address: PO BOX 1239 MINOT, ND 58702

NDD031856503

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CARQUEST WESTERN AUTO (Continued)

1004747510

Contact: LARRY DOVE PO BOX 1239 Contact address:

MINOT, ND 58702

Contact country: US

Contact telephone: (701) 852-1381 Contact email: Not reported

EPA Region: 80

Non-Generator Classification:

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: WESTERN AUTO PARTS CORP.

Owner/operator address: DATA NOT REQUESTED

DATA NOT REQUESTED, ND 99999

Owner/operator country: Not reported Owner/operator telephone: (999) 999-9999 Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/01/0001 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: Nο Transporter of hazardous waste: Nο Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

D004 Waste code: Waste name: **ARSENIC**

D005 Waste code: **BARIUM** Waste name:

Waste code: D006 Waste name: **CADMIUM**

Direction Distance

Elevation Site Database(s) **EPA ID Number**

CARQUEST WESTERN AUTO (Continued)

1004747510

EDR ID Number

D007 Waste code:

CHROMIUM Waste name:

Waste code: D008 Waste name: **LEAD**

D009 Waste code: Waste name: **MERCURY**

Waste code: D010 **SELENIUM** Waste name:

D011 Waste code: Waste name: SILVER

Violation Status: No violations found

FINDS:

Registry ID: 110004064173

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

13 **BRAY'S CLEANERS** North **10 1ST ST NW** MINOT, ND 58703 1/8-1/4

0.145 mi. 768 ft.

RCRA-NonGen: Relative:

Date form received by agency: 01/22/2004 Lower

BRAY'S CLEANERS Facility name: Facility address: 10 1ST ST NW

Actual: 1578 ft.

MINOT, ND 58703-3160

EPA ID: NDD064776099

Mailing address: PO BOX 657

MINOT, ND 587020657 CLAYTON J JOHNSON Contact:

Contact address: PO BOX 657

MINOT, ND 587020657

Contact country: US

(701) 852-1011 Contact telephone: Contact email: Not reported

EPA Region: Land type: Private Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: **CLAYTON JOHNSON**

Owner/operator address: 1ST ST NW RCRA-NonGen

FINDS

1004747515

NDD064776099

Direction Distance

Elevation Site Database(s) **EPA ID Number**

BRAY'S CLEANERS (Continued)

1004747515

EDR ID Number

MINOT, ND 58703

Owner/operator country: US

Owner/operator telephone: (701) 852-1011

Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 04/01/1981 Owner/Op end date: Not reported

CLAYTON JOHNSON Owner/operator name:

Owner/operator address: 1ST ST NW

MINOT, ND 58703

Owner/operator country: US

(701) 852-1011 Owner/operator telephone:

Legal status:

Private Owner/Operator Type: Operator Owner/Op start date: 04/01/1981 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 12/26/1986

BRAY'S CLEANERS Facility name:

Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

> LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D007 **CHROMIUM** Waste name:

Waste code: D039

Waste name: **TETRACHLOROETHYLENE**

Direction Distance

Elevation Site Database(s) EPA ID Number

BRAY'S CLEANERS (Continued)

1004747515

EDR ID Number

Waste code: D040

Waste name: TRICHLOROETHYLENE

Waste code: F002

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 05/21/2008

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004064529

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

North Dakota Facility Profile (ND-FP) contains facility based, environmental information for the State of North Dakota.

14 WESTLIE MOTOR COMPANY, INC.

RCRA-NonGen 1000414770 UST NDD004872578

SSW 500 S BROADWAY 1/8-1/4 MINOT, ND 58701

0.150 mi. 792 ft.

Relative: RCRA-NonGen:

Higher Date form received by agency: 01/09/2012

Contact address:

Facility name: WESTLIE MOTOR COMPANY, INC.

Actual: Facility address: 1644 ft.

500 S BROADWAY MINOT, ND 58701

EPA ID: NDD004872578
Mailing address: S BROADWAY
MINOT, ND 58701
Contact: RON A BRABANDT

S BROADWAY MINOT, ND 58701

Contact country: US

Contact telephone: 701-857-1637

Direction Distance

Elevation Site Database(s) EPA ID Number

WESTLIE MOTOR COMPANY, INC. (Continued)

1000414770

EDR ID Number

Contact email: Not reported EPA Region: 08

Land type: Private
Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: WESTLIE MOTOR COMPANY

Owner/operator address: S BROADWAY MINOT, ND 58701

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 04/01/1951 Owner/Op end date: Not reported

Owner/operator name: WESTLIE MOTOR COMPANY

Owner/operator address: S BROADWAY

MINOT, ND 58701

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/01/1951
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 02/16/2006

Facility name: WESTLIE MOTOR COMPANY, INC.

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/09/1986

Facility name: WESTLIE MOTOR COMPANY, INC.

Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Direction Distance

Elevation Site Database(s) EPA ID Number

WESTLIE MOTOR COMPANY, INC. (Continued)

1000414770

EDR ID Number

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Waste code: D039

Waste name: TETRACHLOROETHYLENE

Facility Has Received Notices of Violations:

Regulation violated: SR - 33-24-05-256.1

Area of violation: Generators - Records/Reporting

Date violation determined: 12/05/1997
Date achieved compliance: 12/31/1997
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 12/31/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 33-24-05-622.3.B Area of violation: Used Oil - Generators

Date violation determined: 12/05/1997
Date achieved compliance: 12/31/1997
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 12/31/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 33-24-03-12.4.E(2)
Area of violation: Generators - Records/Reporting

Date violation determined: 12/05/1997
Date achieved compliance: 12/31/1997
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 12/31/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Direction Distance Elevation

tance EDR ID Number vation Site Database(s) EPA ID Number

WESTLIE MOTOR COMPANY, INC. (Continued)

1000414770

Regulation violated: SR - 33-24*03-12(3)(B)
Area of violation: Generators - General

Date violation determined: 07/29/1992
Date achieved compliance: 08/24/1992
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/13/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 33-24-05-93

Area of violation: Generators - Records/Reporting

Date violation determined: 07/29/1992
Date achieved compliance: 08/24/1992
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/13/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 33-24-03-12(1)(B)
Area of violation: Generators - General

Date violation determined: 07/29/1992
Date achieved compliance: 08/24/1992
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/13/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 33-24-05-92
Area of violation: Generators - General

Date violation determined: 07/29/1992
Date achieved compliance: 08/24/1992
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/13/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 33-24-03-12(1)(C)

Direction Distance

Elevation Site Database(s) EPA ID Number

WESTLIE MOTOR COMPANY, INC. (Continued)

1000414770

EDR ID Number

Area of violation: Generators - General

Date violation determined: 07/29/1992
Date achieved compliance: 08/24/1992
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/13/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 12/05/1997

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Records/Reporting

Date achieved compliance: 12/31/1997 Evaluation lead agency: State

Evaluation date: 12/05/1997

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Used Oil - Generators

Date achieved compliance: 12/31/1997 Evaluation lead agency: State

Evaluation date: 07/29/1992

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 08/24/1992 Evaluation lead agency: State

Evaluation date: 07/29/1992

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Records/Reporting

Date achieved compliance: 08/24/1992 Evaluation lead agency: State

UST:

Facility ID: 1251
Facility Phone: 7018521354
Latitude: 48.2314610
Longitude: -101.29642

Owner Name: WESTLIE MOTOR CORPORATION

Owner Address: 500 SOUTH BROADWAY Owner City, St, Zip: MINOT, ND 58702-0548

Facility Status: Active

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

15 I KEATING INC UST U003036435 N/A

10 SOUTH BROADWAY NNW 1/8-1/4 MINOT, ND 58701

0.160 mi. 845 ft.

UST: Relative:

Facility ID: 4422 Lower

Facility Phone: Not reported Actual: Latitude: 48.236314 1589 ft. Longitude: -101.29622 Owner Name: I KEATING INC

Owner Address: 10 SOUTH BROADWAY Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

U003301403 16 **BNSF GAVIN YARD** LUST UST

HWY 12 AND 12N NE 1/8-1/4 MINOT, ND 58701

0.202 mi. 1068 ft.

LUST: Relative: Facility ID: Lower

Facility Status: Site Cleanup Completed

Actual: Facility Latitude: Not reported 1560 ft. Facility Longitude: Not reported

Status Date: 11/01/1990 Event ID: 1215

Owner Name: BNSF RAILWAY CO. 300 1ST ST SW Owner Address: Owner City,St,Zip: MANDAN, ND 58554

Facility ID: 1215

Facility Status: Site Investigation Continuing

Facility Latitude: Not reported Facility Longitude: Not reported Status Date: 03/01/2007 Event ID: 1215-1

BNSF RAILWAY CO. Owner Name: Owner Address: 300 1ST ST SW Owner City, St, Zip: MANDAN, ND 58554

UST:

Facility ID: 1215 Facility Phone: 7018576636 Latitude: Not reported Longitude: Not reported

BNSF RAILWAY CO. Owner Name: Owner Address: 300 1ST ST SW Owner City, St, Zip: MANDAN, ND 58554

Facility Status: Active N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

17 **KEMPER CONSTRUCTION COMPANY** UST U003036444 N/A

WSW 309 PARK STREET 1/8-1/4 MINOT, ND 58701

0.204 mi. 1077 ft.

UST: Relative:

Facility ID: 2531 Higher

Facility Phone: Not reported Actual: Latitude: 48.232211 1614 ft. Longitude: -101.29910

> Owner Name: KEMPER CONSTRUCTION COMPANY

Owner Address: 23 S MAIN STREET Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

UST U003301404 18 **BURLINGTON NORTHERN RAILROAD COMPANY** N/A

NNE **MAIN & 1ST AVENUE NORTH**

1/8-1/4 MINOT, ND 58701

0.243 mi. 1281 ft.

UST: Relative:

Facility ID: 1216 Lower

Facility Phone: Not reported Actual: Latitude: Not reported 1564 ft. Longitude: Not reported

> Owner Name: BURLINGTON NORTHERN AND SANTA FE RAILROAD COMPANY

Owner Address: 511 2ND AVENUE SE Owner City, St, Zip: DILWORTH, MN 56529

Facility Status: Inactive

FARMERS UNION OIL COMPANY UST U003036410 19 ΝE 215 EAST CENTRAL AVENUE N/A

1/8-1/4 MINOT, ND 58701

0.247 mi. 1303 ft.

UST: Relative:

Facility ID: 2923 Lower

Facility Phone: 7018522501 Actual: Latitude: 48.2367500 1560 ft. Longitude: -101.28866

Owner Name: FARMERS UNION OIL COMPANY

Owner Address: DRAWER F Owner City, St, Zip: MINOT, ND 58701

Facility Status: Active

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

20 HOLIDAY STATION STORE 110 LUST U003036434 SSW 700 NORTH BROADWAY UST N/A

1/4-1/2 MINOT, ND 58701

0.252 mi. 1332 ft.

Relative: LUST:

Higher Facility ID: 1033

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.243319

 1643 ft.
 Facility Longitude:
 -101.29555

 Status Date:
 04/08/2000

 Event ID:
 1033

Owner Name: CASS OIL COMPANY
Owner Address: 4567 AMERICAN BLVD W
Owner City,St,Zip: BLOOMINGTON, MN 55437

UST:

Facility ID: 1033
Facility Phone: 7018528125
Latitude: 48.243319
Longitude: -101.29555

Owner Name: CASS OIL COMPANY
Owner Address: 4567 AMERICAN BLVD W
Owner City,St,Zip:BLOOMINGTON, MN 55437

Facility Status: Inactive

 21
 RENT A WRECK
 LUST U003301518

 WSW
 529 BURDICK EXPRESSWAY
 UST N/A

1/4-1/2 MINOT, ND 58701

0.281 mi. 1484 ft.

Relative: LUST:

Higher Facility ID: 629

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 46.912599

 1615 ft.
 Facility Longitude:
 -98.710363

 Status Date:
 10/03/1997

Event ID: 629
Owner Name: JOE MITZEL

Owner Address: 731 SW 19TH AVENUE
Owner City,St,Zip: MINOT, ND 58701

UST:

Facility ID: 629

Facility Phone: 7018380098 Latitude: 46.9125999 Longitude: -98.710363 Owner Name: JOE MITZEL

Owner Address: 731 SW 19TH AVENUE Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

Direction Distance

Elevation Site Database(s) EPA ID Number

22 MINOT FARMERS ELEVATOR LUST U003036467 NNE PO BOX 1748 UST N/A

NNE PO BOX 1748 1/4-1/2 MINOT, ND 58702

0.285 mi. 1504 ft.

Relative: LUST:

Lower Facility ID: 5122

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.237743

 1560 ft.
 Facility Longitude:
 -101.28947

 Status Date:
 11/03/2004

Event ID: 11/03/2004

Owner Name: MINOT FARMERS ELEVATOR

Owner Address: 115 NE 1ST AVENUE Owner City,St,Zip: MINOT, ND 58702

UST:

Facility ID: 5122
Facility Phone: Not reported 48.2377439
Longitude: -101.28947

Owner Name: MINOT FARMERS ELEVATOR

Owner Address: 115 NE 1ST AVENUE Owner City,St,Zip:MINOT, ND 58702

Facility Status: Active

D23 MINI MART 671 LUST U003036463 ESE 409 SE 4TH AVENUE UST N/A

1/4-1/2 0.330 mi.

1744 ft. Site 1 of 2 in cluster D

MINOT, ND 58701

Relative: LUST:

Lower Facility ID: 1791

Facility Status: Site Cleanup Completed
Actual: Facility Latitude: 48.233947

1579 ft. Facility Longitude: -101.13904 Status Date: 09/26/1996

Event ID: 03/20/1990

Owner Name: LOAF 'N JUG\MINI MART INC Owner Address: 442 KEELER PARKWAY Owner City,St,Zip: PUEBLO, CO 81001

UST:

Facility ID: 1791
Facility Phone: 7018521563
Latitude: 48.2339470
Longitude: -101.13904

Owner Name: LOAF 'N JUG\\MINI MART INC
Owner Address: 442 KEELER PARKWAY
Owner City,St,Zip:PUEBLO, CO 81001

Facility Status: Active

EDR ID Number

Direction Distance

Elevation Site Database(s) **EPA ID Number**

D24 NORTH DAKOTA CONCRETE PRODUCTS LUST U003036496 UST N/A

ESE 5TH AVENUE AND 4TH ST NE MINOT, ND 58701 1/4-1/2

0.334 mi.

1766 ft. Site 2 of 2 in cluster D

LUST: Relative:

Facility ID: 1828 Lower

Facility Status: Site Cleanup Completed

Actual: Facility Latitude: Not reported 1586 ft. Facility Longitude: Not reported Status Date: 09/22/1989

Event ID: 1828

Owner Name: NORTH DAKOTA CONCRETE PRODUCTS

Owner Address: **BOX 815**

Owner City,St,Zip: BISMARCK, ND 58502

UST:

Facility ID: 1828 Facility Phone: Not reported Latitude: Not reported Longitude: Not reported

Owner Name: NORTH DAKOTA CONCRETE PRODUCTS

Owner Address: BOX 815

Owner City, St, Zip: BISMARCK, ND 58502

Facility Status: Inactive

E25 **MINI MART 673** LUST U003036465 **810 NORTH BROADWAY** South UST N/A

MINOT, ND 58701 1/4-1/2

0.350 mi.

1850 ft. Site 1 of 2 in cluster E

LUST: Relative:

Facility ID: Higher

Facility Status: Site Investigation Continuing

640

Actual: Facility Latitude: 48.244427 1673 ft. Facility Longitude: -101.29594

Status Date: 01/06/2006 Event ID: 640

LOAF 'N JUG\\MINI MART INC Owner Name: Owner Address: 442 KEELER PARKWAY Owner City, St, Zip: **PUEBLO, CO 81001**

UST:

Facility ID: 640 Facility Phone: 7018526194 Latitude: 48.2444270 -101.29594 Longitude:

LOAF 'N JUG\\MINI MART INC Owner Name: Owner Address: 442 KEELER PARKWAY Owner City, St, Zip: PUEBLO, CO 81001

Facility Status: Active **EDR ID Number**

Direction Distance

Distance EDR ID Number

Elevation Site EDA ID Number

 E26
 CAMPUS TEXACO
 LUST
 U003036384

 South
 815 NORTH BROADWAY
 UST
 N/A

1/4-1/2 MINOT, ND 58701

0.352 mi.

1858 ft. Site 2 of 2 in cluster E

Relative: LUST:

Higher Facility ID: 6185

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.244450

 1674 ft.
 Facility Longitude:
 -101.29618

 Status Date:
 05/07/1993

Event ID: 6185
Owner Name: PAUL DAMBERGER

Owner Name: PAUL DAMBERGER
Owner Address: 21 SE 2ND AVENUE
Owner City,St,Zip: MINOT, ND 58701

UST:

Facility ID: 6185
Facility Phone: Not reported
Latitude: 48.2444509
Longitude: -101.29618

Owner Name: PAUL DAMBERGER
Owner Address: 21 SE 2ND AVENUE
Owner City,St,Zip:MINOT, ND 58701

Facility Status: Inactive

 27
 AMOCO SS 8643
 LUST U003177262

 East 300 SE 5TH ST
 UST N/A

1/4-1/2 0.405 mi. 2139 ft.

Relative: LUST:

Lower Facility ID: 1348

MINOT, ND 58701

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.233032

 1565 ft.
 Facility Longitude:
 -101.28519

 Status Date:
 05/06/1993

Status Date: 05/06/1993 Event ID: 1348

Owner Name: BP AMOCO MAINTENANCE DEPARTMENT TWIN CITIES TERMIN

Owner Address: 2299 W COUNTY ROAD C Owner City,St,Zip: ROSEVILLE, MN 55113

UST:

Facility ID: 1348
Facility Phone: Not reported
Latitude: 48.2330329
Longitude: -101.28519

Owner Name: BP AMOCO MAINTENANCE DEPARTMENT TWIN CITIES TERMIN

Owner Address: 2299 W COUNTY ROAD C Owner City, St, Zip: ROSEVILLE, MN 55113

Facility Status: Inactive

Direction Distance

Elevation Site Database(s) EPA ID Number

 28
 GATEWAY SAVINGS AND LOAN
 LUST
 U003036425

 South
 10115 S BROADWAY
 UST
 N/A

South 10115 S BROADWAY 1/4-1/2 MINOT, ND 58701

0.490 mi. 2585 ft.

Relative: LUST:

Higher Facility ID: 2595

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.180169

 1694 ft.
 Facility Longitude:
 -101.29545

 Status Date:
 08/14/1991

Status Date: 08/14/1991 Event ID: 2595

Owner Name: OMEGA DEVELOPMENT CORPORATION

Owner Address: BRIDGEPORT OFFICE PARK

Owner City,St,Zip: TULSA, OK 74136

UST:

Facility ID: 2595
Facility Phone: Not reported
Latitude: 48.1801699
Longitude: -101.29545

Owner Name: OMEGA DEVELOPMENT CORPORATION

Owner Address: BRIDGEPORT OFFICE PARK

Owner City, St, Zip: TULSA, OK 74136

Facility Status: Inactive

EDR ID Number

City	EDR ID	Site Name	Site Address	Zip Database(s)
MINOT	1000280750	BUTLER MACHINERY CO - MINOT	1505 HWY 2, BYPASS EAST	58701 FINDS,RCRA-NLR
MINOT	1000342501	MINOT CIVIC CENTER-CITY OF	CIVIC CENTER	58701 FINDS, RCRA-NLR
MINOT	1000388158	NORTH DAKOTA HWY DEPT	US 2 BYPASS	58701 FINDS, RCRA-NLR, MANIFEST
MINOT	1000408763	NORTHERN STATES POWER CO - MINOT	24 2ND AVE E	58701 FINDS, RCRA-NLR
MINOT	1001968611	CHS PETROLEUM TERMINAL - MINOT	4 MI W ON HWY 2 & 52 W	58701 FINDS, RCRA-CESQG
MINOT	1003877536	NDSU RADIOACTIVE WASTE SITE	1 MIS OF MINOT ON HWY 83	58701 CERCLIS-NFRAP
MINOT	1003877541	SOURIS RIVER - WEST MINOT	SEC14,17,21-24, R38W, T155N	58701 CERCLIS-NFRAP
MINOT	1004747478	FERRELLGAS L.P MINOT	SEC 28, T155, R83, NE 1/4 NW 1	58701 FINDS, RCRA-NLR
MINOT	1005440821	MINOT TRAIN DERAILMENT	MAIN RR LINE CANADIAN PACIFIC	58701 CERCLIS-NFRAP
MINOT	1006268804	MINOT / CITY WELLS	HIGHWAY 2 & 52 WEST	FINDS
MINOT	1008051541	MINOT MOBILE HOME SERVICE CENTER I	5215 HIGHWAY 2 EAST	58701 FINDS
MINOT	1008185084	MINOT PARK DIST (BISON PLT)	HWY 52 WARD COUNTY	58701 HIST FTTS INSP
MINOT	1010007082	MINOT PARK DIST (BISON PLT)	HWY 52 WARD COUNTY	58701 FTTS
MINOT	1011447772	MINOT MOBILE ESTATES	7950 HIGHWAY 2 E LOT 104	58701 FINDS
MINOT	8861765	4 MI W. ON HWY 2 AND S2 MINOT TERM	4 MI W. ON HWY 2 AND S2 MINOT	ERNS
MINOT	94401720	US HWY 83 / 9 MILES S OF MINOT	US HWY 83 / 9 MILES S OF MINOT	ERNS
MINOT	S110120867	MINOT WTP	HIGHWAY 2 & 52 WEST	58701 NPDES
MINOT	U003036420	FOLEY EQUIPMENT INC	OLD HIGHWAY 52 EAST	58701 UST
MINOT	U003036431	HARRIS EQUIPMENT INC	ROUTE 1 BOX 62C	58701 LUST,UST
MINOT	U003036542	J003036542 WALSH FARMS	ROUTE 1 BOX 11	58701 UST

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/08/2012 Source: EPA
Date Data Arrived at EDR: 05/10/2012 Telephone: N/A

Number of Days to Update: 5 Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/30/2012 Source: EPA
Date Data Arrived at EDR: 04/05/2012 Telephone: N/A

Number of Days to Update: 40 Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/30/2012 Date Data Arrived at EDR: 04/05/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 40

Source: EPA Telephone: N/A

Last EDR Contact: 04/05/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011 Date Data Arrived at EDR: 02/27/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 14

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010 Date Data Arrived at EDR: 01/11/2011 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 04/12/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011 Date Data Arrived at EDR: 02/27/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 14

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/19/2011 Date Data Arrived at EDR: 08/31/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 132

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/02/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 72

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012

Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Landfills/Special Use Landfills

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/01/2012 Date Data Arrived at EDR: 04/17/2012 Date Made Active in Reports: 05/29/2012

Number of Days to Update: 42

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 04/12/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/05/2012 Date Data Arrived at EDR: 03/07/2012 Date Made Active in Reports: 04/05/2012

Number of Days to Update: 29

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 06/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 103

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/14/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Data

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/05/2012 Date Data Arrived at EDR: 03/07/2012 Date Made Active in Reports: 04/05/2012

Number of Days to Update: 29

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 06/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Listing Registered Aboveground Storage Tanks.

Date of Government Version: 04/30/2012 Date Data Arrived at EDR: 05/02/2012 Date Made Active in Reports: 05/29/2012

Number of Days to Update: 27

Source: Department of Insurance Telephone: 701-328-3246 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 103

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 34

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/28/2012 Date Data Arrived at EDR: 02/29/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 76

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/28/2011 Date Data Arrived at EDR: 11/29/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 42

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Land Use Controls Listing

Land-Use Controls (LUCs) are defined broadly as legal measures that limit human exposure by restricting activity, use, and access to properties with residual contamination.

Date of Government Version: 09/09/2011 Date Data Arrived at EDR: 09/09/2011 Date Made Active in Reports: 10/13/2011

Number of Days to Update: 34

Source: Department of Health Telephone: 701-328-5158 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 02/17/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 42

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: List of Brownfields Sites

The concept of the Brownfields Program is to take contaminated or potentially contaminated, underdeveloped, unproductive property and convert it into productive real estate. Brownfield sites are defined as abandoned, idled or underused industrial or commercial properties whose redevelopment is complicated by real or perceived environmental contamination.

Date of Government Version: 01/01/2012 Date Data Arrived at EDR: 02/29/2012 Date Made Active in Reports: 04/05/2012

Number of Days to Update: 36

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/27/2011 Date Data Arrived at EDR: 06/27/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258

Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SWRCY: Recycling Centers

A listing of recycling center locations.

Date of Government Version: 03/14/2011 Date Data Arrived at EDR: 03/15/2011 Date Made Active in Reports: 03/31/2011

Number of Days to Update: 16

Source: Department of Health Telephone: 701-328-5266 Last EDR Contact: 03/16/2012

Next Scheduled EDR Contact: 06/25/2012 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 05/07/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/02/2012 Date Data Arrived at EDR: 03/13/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 93

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Location Listing

A listing of clandestine drug lab locations in North Dakota.

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 03/07/2012 Date Made Active in Reports: 04/05/2012

Number of Days to Update: 29

Source: Bureau of Criminal Investigation

Telephone: 701-328-8171 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012 Date Data Arrived at EDR: 03/26/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 80

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/01/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 72

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Annually

SPILLS: State Spills

A listing of Department of Health spill records.

Date of Government Version: 04/10/2012 Date Data Arrived at EDR: 04/12/2012 Date Made Active in Reports: 05/29/2012

Number of Days to Update: 47

Source: Dept. of Health Telephone: 701-328-5150 Last EDR Contact: 04/11/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011 Date Data Arrived at EDR: 08/09/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 94

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 05/08/2012

Next Scheduled EDR Contact: 08/20/2012
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 08/12/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 112

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 01/25/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 36

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012 Date Data Arrived at EDR: 03/14/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 92

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 06/13/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 09/08/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 06/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 09/01/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 131

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/28/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA,

TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 61

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010 Date Data Arrived at EDR: 11/10/2010 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 98

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/17/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011 Date Data Arrived at EDR: 07/15/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 60

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/10/2012 Date Data Arrived at EDR: 01/12/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 49

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011 Date Data Arrived at EDR: 12/13/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 79

Source: EPA

Telephone: (303) 312-6312 Last EDR Contact: 06/12/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Biennially

UIC: Underground Injection Wells

A listing of underground injection control wells.

Date of Government Version: 02/06/2012 Date Data Arrived at EDR: 02/08/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 33

Source: Department of Health Telephone: 701-328-5217 Last EDR Contact: 05/07/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Varies

DRYCLEANERS: Drycleaner facilities
A listing of drycleaner facility locations.

Date of Government Version: 09/10/2009 Date Data Arrived at EDR: 09/14/2009 Date Made Active in Reports: 09/30/2009

Number of Days to Update: 16

Source: Department of Health Telephone: 701-328-5188 Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

NPDES: Wastewater Facility Listing

A listing of wastewater facility locations.

Date of Government Version: 05/08/2012 Date Data Arrived at EDR: 05/09/2012 Date Made Active in Reports: 05/29/2012

Number of Days to Update: 20

Source: Department of Health Telephone: 701-328-5260 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

AIRS: Permitted Airs Facility Listing

A listing of permitted airs facility locations.

Date of Government Version: 05/23/2007 Date Data Arrived at EDR: 05/24/2007 Date Made Active in Reports: 06/08/2007

Number of Days to Update: 15

Source: Department of Health Telephone: 701-328-5188 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/06/2012 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 03/31/2012 Date Data Arrived at EDR: 05/17/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 28

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012

Data Release Frequency: N/A

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 06/12/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 05/04/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

2020 CORRECTIVE ACTION: 2020 Corrective Action Program List

This RCRA cleanup baseline includes facilities expected to need corrective action.

Date of Government Version: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 7

Source: Environmental Protection Agency Telephone: 703-308-4044

Last EDR Contact: 05/18/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Source: EDR, Inc.

Date Data Arrived at EDR: N/A Telephone: N/A

Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/21/2012 Date Data Arrived at EDR: 05/22/2012 Date Made Active in Reports: 05/31/2012

Number of Days to Update: 9

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 05/22/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2012 Date Data Arrived at EDR: 05/09/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 36

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/09/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/15/2011

Number of Days to Update: 27

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/19/2012

Next Scheduled EDR Contact: 07/02/2012 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care List

Source: Department of Human Services

Telephone: 701-328-2316

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MINOT SITE 1 1ST STREET SW/3RD AVENUE SW MINOT, ND 58701

TARGET PROPERTY COORDINATES

Latitude (North): 48.2339 - 48° 14' 2.04" Longitude (West): 101.2941 - 101° 17' 38.76"

Universal Tranverse Mercator: Zone 14 UTM X (Meters): 329645.1 UTM Y (Meters): 5344623.5

Elevation: 1612 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 48101-B3 MINOT, ND

Most Recent Revision: 1979

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

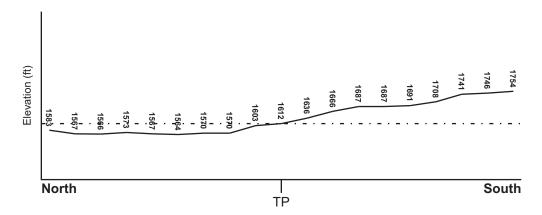
TOPOGRAPHIC INFORMATION

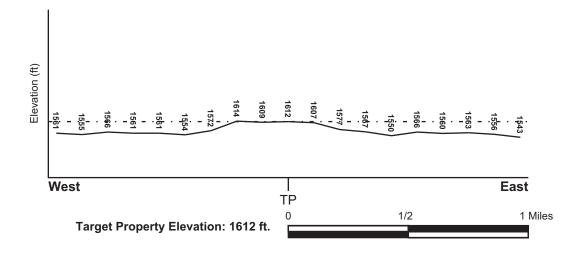
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood operty County Electronic Data

Target Property County
WARD, ND
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 3853670012C - FEMA Q3 Flood data

Additional Panels in search area: 3853670005C - FEMA Q3 Flood data

3800000000A - FEMA Q3 Flood data 3853670016C - FEMA Q3 Flood data

3853670014B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Property

NWI Quad at Target Property

Data Coverage

MINOT YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

LOCATION GENERAL DIRECTION

MAP ID FROM TP GROUNDWATER FLOW

Not Reported

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

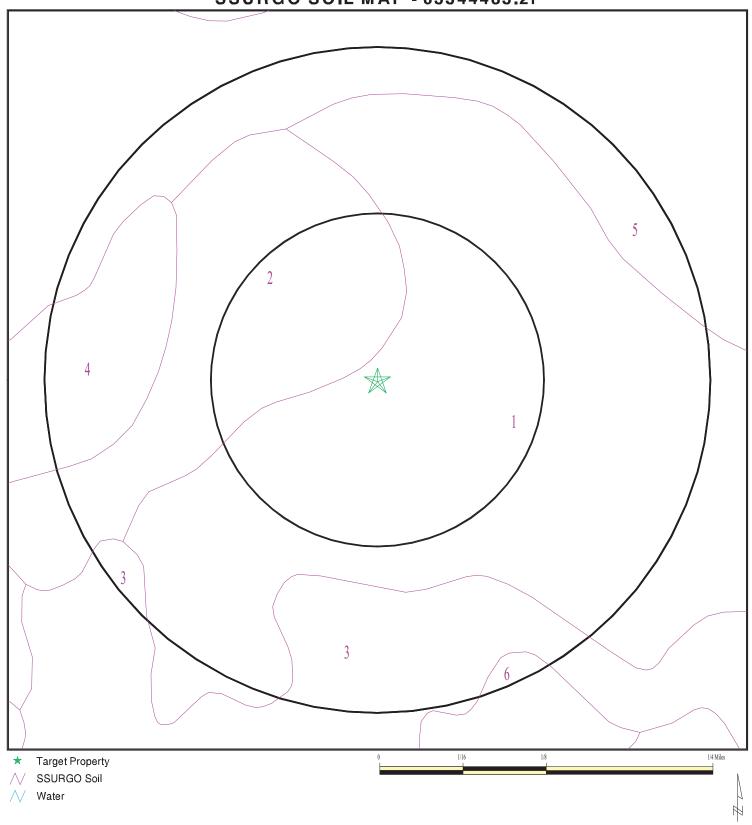
Era: Cenozoic Category: Stratified Sequence

System: Tertiary
Series: Paleocene

Code: Tx (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 03344483.2r



SITE NAME: Minot Site 1 ADDRESS: 1st Street SW/3rd Avenue SW

Minot ND 58701 LAT/LONG: 48.2339 / 101.2941 CLIENT: TriMedia CONTACT: Derek Senn

INQUIRY#: 03344483.2r DATE: June 14, 2012 12:02 pm

Copyright © 2012 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SVEA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

	Soil Layer Information							
	Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity	Soil Reaction (pH)	
1	0 inches	7 inches	loam	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: 8.4 Min: 7.4	
2	7 inches	24 inches	loam	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: 8.4 Min: 7.4	
3	24 inches	59 inches	loam	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: 8.4 Min: 7.4	

Soil Map ID: 2

Soil Component Name: SIOUX

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	r Information			
	Воц	ındary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	7 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 423.43 Min: 42.34	Max: 8.4 Min: 7.4
2	7 inches	11 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 423.43 Min: 42.34	Max: 8.4 Min: 7.4
3	11 inches	59 inches	extremely gravelly sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 423.43 Min: 42.34	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: ZAHL

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	5 inches	loam	Not reported	Not reported	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
2	5 inches	14 inches	loam	Not reported	Not reported	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
3	14 inches	59 inches	loam	Not reported	Not reported	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4

Soil Map ID: 4

Soil Component Name: WABEK

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Воц	ındary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	5 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 141.14	Max: 8.4 Min: 7.4
2	5 inches	11 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 141.14	Max: 8.4 Min: 7.4

	Soil Layer Information						
	Bou	ndary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	11 inches	59 inches	sand and gravel	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 141.14	Max: 8.4 Min: 7.4

Soil Map ID: 5

Soil Component Name: **VELVA**

Soil Surface Texture: loam

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches Depth to Watertable Min: > 0 inches

			Soil Layer	r Information			
	Воц	ındary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity Soil React micro m/sec (pH)	
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 4.23	Max: 8.4 Min: 6.6
2	7 inches	59 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 4.23	Max: 8.4 Min: 6.6

Soil Map ID: 6

Soil Component Name: WILLIAMS

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Воц	ındary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity Soil Reacti	
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
2	5 inches	18 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
3	18 inches	59 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C17	USGS2911595	1/2 - 1 Mile NNW
C18	USGS2911596	1/2 - 1 Mile NNW
34	USGS2911599	1/2 - 1 Mile NNW
H39	USGS2911757	1/2 - 1 Mile WNW
G43	USGS2911781	1/2 - 1 Mile NW
61	USGS2911598	1/2 - 1 Mile NW
R71	USGS2911752	1/2 - 1 Mile WNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	ND5100660	1/8 - 1/4 Mile SW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	ND5000000027709	1/4 - 1/2 Mile NE
3	ND5000000027747	1/4 - 1/2 Mile NNW
A4	ND5000000027773	1/4 - 1/2 Mile NNE
A5	ND5000000027774	1/4 - 1/2 Mile NNE
6	ND5000000027818	1/4 - 1/2 Mile North
7	ND5000000027753	1/4 - 1/2 Mile NE
B8	ND5000000027834	1/2 - 1 Mile NNW
B9	ND5000000027831	1/2 - 1 Mile NNW
B10	ND5000000027830	1/2 - 1 Mile NNW
B11	ND5000000027829	1/2 - 1 Mile NNW
B12	ND5000000027837	1/2 - 1 Mile NNW
B13	ND5000000027839	1/2 - 1 Mile NNW
B14	ND5000000027838	1/2 - 1 Mile NNW
15	ND5000000027833	1/2 - 1 Mile NNE
16	ND5000000027682	1/2 - 1 Mile West
D19	ND5000000027664	1/2 - 1 Mile West
D20	ND5000000027662	1/2 - 1 Mile West
D21	ND5000000027665	1/2 - 1 Mile West
22	ND5000000027859	1/2 - 1 Mile NNE

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

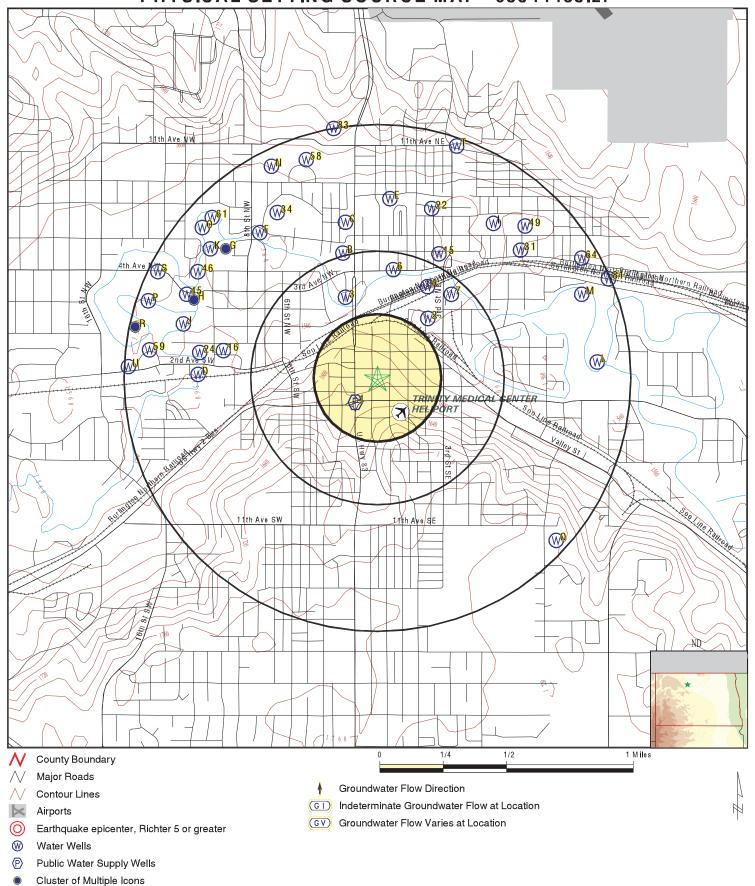
		LOCATION
MAP ID	WELL ID	FROM TP
E23	ND5000000027860	1/2 - 1 Mile North 1/2 - 1 Mile West
24	ND5000000027680	1/2 - 1 Mile West
E25 E26	ND5000000027861 ND5000000027862	1/2 - 1 Mile North
F27	ND5000000027862 ND5000000027848	1/2 - 1 Mile NOM
D28	ND5000000027646 ND5000000027673	1/2 - 1 Mile NVV
F29	ND5000000027673 ND5000000027850	1/2 - 1 Mile VVest
G30	ND5000000027830 ND5000000027825	1/2 - 1 Mile NW
31	ND5000000027625	1/2 - 1 Mile NV
H32	ND5000000027728	1/2 - 1 Mile WNW
133	ND5000000027725	1/2 - 1 Mile NE
135	ND5000000027856	1/2 - 1 Mile NE
H36	ND5000000027736	1/2 - 1 Mile WNW
H37	ND5000000027745	1/2 - 1 Mile WNW
H38	ND5000000027758	1/2 - 1 Mile WNW
J40	ND5000000027705	1/2 - 1 Mile WNW
J41	ND5000000027703	1/2 - 1 Mile WNW
H42	ND5000000027730	1/2 - 1 Mile WNW
H44	ND5000000027741	1/2 - 1 Mile WNW
45	ND5000000027755	1/2 - 1 Mile WNW
46	ND5000000027816	1/2 - 1 Mile WNW
K47	ND5000000027828	1/2 - 1 Mile NW
K48	ND5000000027842	1/2 - 1 Mile NW
49	ND5000000027855	1/2 - 1 Mile NE
K50	ND5000000027845	1/2 - 1 Mile NW
K51	ND5000000027843	1/2 - 1 Mile NW
L52	ND5000000027675	1/2 - 1 Mile East
M53	ND5000000027756	1/2 - 1 Mile ENE
L54	ND5000000027677	1/2 - 1 Mile East
M55 N56	ND5000000027754 ND5000000027868	1/2 - 1 Mile ENE 1/2 - 1 Mile NNW
O57	ND5000000027888 ND5000000027852	1/2 - 1 Mile NW
58	ND5000000027832 ND5000000027876	1/2 - 1 Mile NNW
59	ND5000000027676 ND5000000027683	1/2 - 1 Mile West
O60	ND5000000027663	1/2 - 1 Mile NW
O62	ND5000000027857	1/2 - 1 Mile NW
P63	ND5000000027737	1/2 - 1 Mile WNW
64	ND5000000027824	1/2 - 1 Mile ENE
N65	ND5000000027873	1/2 - 1 Mile NNW
N66	ND5000000027872	1/2 - 1 Mile NNW
N67	ND5000000027871	1/2 - 1 Mile NNW
Q68	ND5000000027560	1/2 - 1 Mile SE
N69	ND5000000027875	1/2 - 1 Mile NNW
Q70	ND5000000027556	1/2 - 1 Mile SE
S72	ND5000000027815	1/2 - 1 Mile WNW
P73	ND5000000027735	1/2 - 1 Mile WNW
P74	ND5000000027738	1/2 - 1 Mile WNW
S75	ND5000000027817	1/2 - 1 Mile WNW
T76	ND5000000027881	1/2 - 1 Mile NNE
T77	ND5000000027880	1/2 - 1 Mile NNE
U78	ND5000000027670	1/2 - 1 Mile West
U79	ND5000000027671	1/2 - 1 Mile West

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
U80	ND5000000027672	1/2 - 1 Mile West
81	ND5000000027800	1/2 - 1 Mile ENE
R82	ND5000000027700	1/2 - 1 Mile West
83	ND5000000027886	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 03344483.2r



SITE NAME: Minot Site 1

ADDRESS: 1st Street SW/3rd Avenue SW

Minot ND 58701 LAT/LONG: 48.2339 / 101.2941 CLIENT: TriMedia CONTACT: Derek Senn INQUIRY #: 03344483.2r

DATE: June 14, 2012 12:02 pm

Copyright © 2012 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

Map ID Direction Distance

Elevation Database EDR ID Number SW **FRDS PWS** ND5100660 1/8 - 1/4 Mile Higher Pwsid: ND5100660 Epa region: 80 Ward State: ND County: MINOT CITY OF Pws name: Population Served: 10500 36567 Pwssvcconn: PWS Source: Surface_water Pws type: **CWS** Status: Active Owner type: Local Govt Facility id: 1810 Facility name: WELL 6 Facility type: Well Treatment process: coagulation Treatment objective: particulate removal HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW Contact city: **MINOT** 58701 Contact zip: Pwsid: ND5100660 Epa region: 80 State: ND County: Ward MINOT CITY OF Pws name: Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface_water **CWS** Pws type: Status: Active Owner type: Local Govt 1909 Facility id: Facility name: WELL 8 Facility type: Well Treatment process: coagulation Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY CITY HALL Contact phone: 701-857-4751 Contact address1: Contact address2: 515 2ND ST NW Contact city: **MINOT** Contact zip: 58701 ND5100660 80 Pwsid: Epa region: State: Ward County: Pws name: MINOT CITY OF 10500 Population Served: 36567 Pwssvcconn: PWS Source: Surface_water Pws type: **CWS** Status: Active Owner type: Local Govt Facility id: 1963 WELL 11 Facility name: Facility type: Well Treatment process: coagulation Treatment objective: particulate removal

Contact address1:

CITY HALL

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Contact zip:

Contact zip:

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

State: ND County: Wa
Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

58701

58701

Pws type: CWS
Status: Active Owner type: Local_Govt
Facility id: 1990

Facility name: WELL 12

Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local_Govt
Facility id: 2005

Facility id: 2005
Facility name: WELL 13
Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local_Govt

Facility id: 2017
Facility name: WELL 14

Facility type: Well Treatment process: coagulation Treatment objective: particulate removal

Contact address1:

Pwssvcconn:

Treatment process:

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

CITY HALL

10500

Local Govt

coagulation

CITY HALL

10500

Local Govt

coagulation

CITY HALL

10500

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 36567

PWS Source: Surface_water

Pws type: **CWS** Status: Active

Owner type: Facility id: 2026

WELL 15 Facility name: Facility type: Well

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** 58701 Contact zip:

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567

PWS Source: Surface_water

CWS Pws type:

Status: Active 2034 Facility id:

Facility name: WELL 16 Facility type: Well

Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: Ward County:

Pws name: MINOT CITY OF

Population Served: 36567

PWS Source: Surface_water

Pws type: **CWS**

Status: Active Owner type: Local Govt

Facility id: 2041 Facility name: WELL A Facility type: Well

Treatment process: coagulation Treatment objective: particulate removal

TC03344483.2r Page A-17

Contact address1:

CITY HALL

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward

State: ND County: MINOT CITY OF Pws name:

Population Served: 10500 36567 Pwssvcconn:

PWS Source: Surface_water

Pws type: **CWS** Status: Active

Contact city:

Contact zip:

Owner type: Local Govt Facility id: 2048

WELL B Facility name: Facility type: Well

58701

MINOT

58701

Treatment process: coagulation Treatment objective: particulate removal Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW Contact city: **MINOT**

Contact zip: Pwsid: ND5100660 Epa region: 80

State: ND County: Ward MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

CWS Pws type:

Status: Active Owner type: Local Govt 2052 Facility id: Facility name: WELL C

Facility type: Well Treatment process: coagulation Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY CITY HALL

Contact phone: 701-857-4751 Contact address1: Contact address2: 515 2ND ST NW

ND5100660 80 Pwsid: Epa region: State: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water **CWS**

Pws type: Status: Active Owner type: Local Govt Facility id: 2056

County:

WELL D Facility name: Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW Contact city: **MINOT** Contact zip: 58701

Contact city:

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 10500 36567 Pwssvcconn: PWS Source: Surface_water

Pws type: **CWS**

MINOT

Status: Active Owner type: Local Govt Facility id: 2059

WELL E Facility name:

Facility type: Well Treatment process: coagulation Treatment objective: particulate removal Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

58701 Contact zip: Pwsid: ND5100660 Epa region: 80

State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface_water

CWS Pws type:

Status: Active Owner type: Local Govt

2640 Facility id: Facility name: WATER TREATMENT PLANT

Facility type: Sampling station Treatment process: coagulation Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW Contact city: **MINOT**

Contact zip: 58701 ND5100660 80 Pwsid: Epa region:

State: Ward County: Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: **CWS** Status: Active Owner type: Local Govt

Facility id: 3041

PLANT A-E 005 006 008 011-16 Facility name: Facility type: Treatment plant Treatment process: coagulation

Treatment objective: particulate removal

Contact address1:

Pwssvcconn:

Treatment process:

Contact address1:

Treatment process:

Contact address1:

CITY HALL

10500

coagulation

CITY HALL

coagulation

CITY HALL

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW Contact city: **MINOT**

Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 36567

PWS Source: Surface_water

Pws type: **CWS**

Status: Active Owner type: Local Govt 4097 Facility id:

MINOT CITY OF Facility name:

Facility type: Distribution system zone

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

CWS Pws type:

Status: Active Owner type: Local Govt 4260 Facility id:

GENERAL SOURCE Facility name: Facility type: Sampling station

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: Ward County:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: **CWS** Status: Active

Owner type: Local Govt

Facility id: 1095

SOURIS RIVER Facility name:

Facility type: Intake Treatment process: coagulation

Treatment objective: softening (hardness removal)

CITY HALL

10500

CITY HALL

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1:

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn:

PWS Source: Surface_water

Pws type: **CWS** Status: Active

Owner type: Local Govt

Facility id: 1622 WELL 5 Facility name:

Facility type: Well Treatment process: coagulation

softening (hardness removal) Treatment objective:

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: **MINOT** 58701 Contact zip:

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

CWS Pws type:

Status: Active Owner type: Local Govt

Facility id: 1810 Facility name: WELL 6

Facility type: Well Treatment process: coagulation

Contact address1:

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: Ward County:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: **CWS**

Status: Active Owner type: Local Govt

Facility id: 1909 WELL 8 Facility name:

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW Contact city: MINOT

Contact city: MINOT Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 1963 Facility name: WELL 11

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Cc

58701

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW Contact city: MINOT

Contact zip:

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 1990
Facility name: WELL 12
Facility type: Well

Facility type: Well Treatment process: coagulation

Contact address1:

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS Status: Active

Status: Active Owner type: Local_Govt

Facility id: 2005
Facility name: WELL 13
Facility type: Well

acility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

CITY HALL

CITY HALL

CITY HALL

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1:

Contact address2: 515 2ND ST NW **MINOT**

Contact city: Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 10500 36567 Pwssvcconn:

PWS Source: Surface_water Pws type: **CWS**

Status: Active

Owner type: Local Govt

Facility id: 2017 Facility name: WELL 14

Facility type: Well Treatment process: coagulation

softening (hardness removal) Treatment objective: HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: **MINOT** 58701 Contact zip:

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

CWS Pws type:

Status: Active Owner type: Local Govt

2026 Facility id: Facility name: WELL 15

Facility type: Well Treatment process: coagulation

Contact address1:

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: Ward County:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: **CWS** Status: Active

Owner type: Local Govt

Facility id: 2034 WELL 16 Facility name:

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

CITY HALL

CITY HALL

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1:

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Pws type: CWS Status: Active

Status: Active Owner type: Local_Govt

Facility id: 2041 Facility name: WELL A

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 701-857-4751
Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 2048
Facility name: WELL B

Facility type: Well Treatment process: coagulation

Contact address1:

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 2052 Facility name: WELL C

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS Status: Active

Status: Active Owner type: Local_Govt

Facility id: 2056 Facility name: WELL D

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 2640

Facility name: WATER TREATMENT PLANT

Facility type: Sampling_station Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact city: MINOT

Contact zip: 58701

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 3041

Facility name: PLANT_A-E_005_006_008_011-16

Facility type: Treatment_plant Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact address1:

Contact address1:

CITY HALL

10500

CITY HALL

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn:

PWS Source: Surface_water

Pws type: **CWS**

Status: Active Owner type: Local Govt 4097 Facility id:

MINOT CITY OF Facility name:

Facility type: Distribution system zone Treatment process: coagulation

softening (hardness removal) Treatment objective:

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

CWS Pws type:

Status: Active Owner type: Local Govt

4260 Facility id:

Facility name: **GENERAL SOURCE** Facility type: Sampling station

Treatment process: coagulation

Treatment objective: softening (hardness removal)

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: Ward County:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: **CWS** Status: Active

Owner type: Local Govt

Facility id: 1095

SOURIS RIVER Facility name:

Facility type: Intake Treatment process: flocculation

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

Treatment process:

CITY HALL

10500

Local Govt

flocculation

CITY HALL

10500

Local Govt

flocculation

CITY HALL

10500

flocculation

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567

PWS Source: Surface_water

Pws type: CWS

Status: Active Facility id: 1622

Facility Id: 1622
Facility name: WELL 5

Facility type: Well
Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567

PWS Source: Surface_water

Pws type: CWS

Status: Active

Facility id: 1810 Facility name: WELL 6

Facility type: Well

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF Population Served: 36567

PWS Source: Surface_water

Divisitions: CMC

Pws type: CWS Status: Active

Status: Active Owner type: Local_Govt

Facility id: 1909
Facility name: WELL 8
Facility type: Well

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

CITY HALL

10500

Local Govt

flocculation

CITY HALL

10500

Local Govt

flocculation

CITY HALL

10500

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 36567

PWS Source: Surface_water

Pws type: **CWS**

Status: Active Facility id: 1963

WELL 11 Facility name: Well

Facility type: Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address2: 515 2ND ST NW

Contact city: **MINOT**

58701 Contact zip:

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567

PWS Source: Surface_water

CWS Pws type:

Status: Active 1990

Facility id: Facility name: WELL 12

Facility type: Well Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: Ward County:

Pws name: MINOT CITY OF

Population Served: 36567

PWS Source: Surface_water

Pws type: **CWS**

Status: Active Owner type: Local Govt

Facility id: 2005 Facility name: WELL 13

Facility type: Well Treatment process: flocculation

Contact address1:

Treatment process:

CITY HALL

10500

flocculation

CITY HALL

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn:

PWS Source: Surface_water

Pws type: **CWS** Status: Active

Owner type: Local Govt Facility id: 2017

WELL 14 Facility name: Facility type: Well

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact city: **MINOT** 58701 Contact zip:

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

CWS Pws type:

Status: Active Owner type: Local Govt 2026

Facility id: Facility name: WELL 15 Facility type: Well

Treatment process: flocculation

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address1: Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: Ward County:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: **CWS** Status: Active Owner type: Local Govt

Facility id: 2034 WELL 16 Facility name:

Facility type: Well Treatment process: flocculation

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

Owner type:

Treatment process:

Contact address1:

Pwssvcconn:

CITY HALL

10500

Local Govt

flocculation

CITY HALL

10500

Local Govt

flocculation

CITY HALL

10500

Local Govt

HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 36567

PWS Source: Surface_water

Pws type: **CWS**

Status: Active 2041

Facility id: WELL A

Facility name: Facility type: Well

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** 58701 Contact zip:

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567

PWS Source: Surface_water

CWS Pws type:

Status: Active 2048 Facility id:

Facility name: WELL B Facility type: Well

Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: Ward County:

Pws name: MINOT CITY OF

Population Served: 36567

PWS Source: Surface_water

Pws type: **CWS**

Status: Active Owner type:

Facility id: 2052 WELL C Facility name:

Facility type: Well Treatment process: flocculation

Contact address1:

Pwssvcconn:

Contact address1:

Contact address1:

CITY HALL

10500

Local Govt

CITY HALL

CITY HALL

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 Ward State: ND County:

MINOT CITY OF Pws name:

Population Served: 36567

PWS Source: Surface_water

Pws type: **CWS**

Owner type: Status: Active 2056 Facility id:

WELL D Facility name: Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: **MINOT** Contact zip: 58701

Pwsid: ND5100660 Epa region: 80 State: ND County: Ward

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

CWS Pws type:

Status: Active Owner type: Local Govt

Facility id: 2059 WELL E Facility name:

Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address2: 515 2ND ST NW

Contact city: **MINOT** 58701 Contact zip:

ND5100660 PWS ID:

Date Initiated: Not Reported Date Deactivated: Not Reported

MINOT CITY OF PWS Name:

MINOT, ND 58701

Addressee / Facility: Operator

C/O BYRON THRONSON WWS

WATER PLANT MINOT, ND 58701

Addressee / Facility: System Owner/Responsible Party

MAYOR AND CITY COUNCIL 515 2ND ST SW CITY HALL C/O ROBERT FRANTSVOG AUD

MINOT, ND 58701

Facility Latitude: 48 13 57 Facility Longitude: 101 17 44

City Served: Not Reported

Treatment Class: Treated Population: 34544

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID: 9400445 Source ID: Not Reported PWS Phone: Not Reported 04/01/94 06/30/94 003 Months Vio. beginning Date: Vio. end Date: Vio. Period:

Num required Samples: Not Reported Number of Samples Taken: Not Reported 00000010000000 Analysis Result: 000000012000000 Maximum Contaminant Level:

Analysis Method: Liquid/Liquid Extraction (TTHM)

Violation Type: MCL, Average Contaminant: **TTHM** Vio. Awareness Date: 071394

ENFORCEMENT INFORMATION:

System Name: MINOT CITY OF Violation Type: MCL, Average

Contaminant: TTHM

Compliance Period: 1994-04-01 - 1994-06-30

Violation ID: 9400445 **Enforcement Date:**

1994-07-22 Enf. Action: State Violation/Reminder Notice

System Name: MINOT CITY OF Violation Type: MCL, Average

Contaminant: **TTHM**

Compliance Period: 1994-04-01 - 1994-06-30

Violation ID: 9400445 **Enforcement Date:** 1994-07-22

System Name: MINOT CITY OF Violation Type: MCL, Average

Contaminant: **TTHM**

1994-04-01 - 1994-06-30 Compliance Period:

Violation ID: 9400445

Enforcement Date: 1994-09-27 Enf. Action: State Public Notif Received

Enf. Action:

1/4 - 1/2 Mile Lower

> Site index: 15198 Location: 15508324BAC2

WHITES Swc well n: County: Ward

Basin: Souris River Aquifer: No Obs Well Installed Purpose: Test Hole Casing: None

Diameter: 0 Measuring:

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

10/03/1963 Date drill: Total dept: 194 Bedrock de: 0 Top screen: 0

Bottom scr: Longitude: -101.289784303529

48.2372947845265 ND5000000027709 Latitude: Site id:

State Public Notif Requested

ND WELLS

Map ID Direction Distance

Elevation Database EDR ID Number NNW **ND WELLS** ND5000000027747

1/4 - 1/2 Mile Lower

> Site index: 14342 Location: 15508323AAD 13005 Ward Swc well n: County: Souris River Basin: Minot Aquifer: **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1553.85 Land surfa: 1552.17 Elev type: Survey 0.01 ft

06/23/1992 Date drill: Total dept: 291 275 Bedrock de: Top screen: 118

-101.296826148067 Bottom scr: 123 Longitude: Latitude: 48.2385052208946 Site id: ND5000000027747

NNE 1/4 - 1/2 Mile Lower

Site index: 15194 Location: 15508324BAB3

County: Swc well n: NSP₁ Ward Souris River Basin: Aquifer: Minot Purpose: Irrigation Well Casing: Unknown Diameter: O Measuring: 1555

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

Date drill: 01/01/1930 Total dept: 102 Bedrock de: 0 Top screen: 0

100 -101.289815792625 Bottom scr: Longitude: 48.2391143438406 ND5000000027773 Latitude: Site id:

NNE 1/4 - 1/2 Mile

Lower

15508324BAB4 Site index: 15195 Location:

Swc well n: NSP 2 Ward County: Souris River Basin: Aquifer: Minot Purpose: Irrigation Well Casing: Unknown Diameter: Measuring: 1555

Land surfa: 1555 Elev type: Elevation Derived from Topo Map 01/01/1946 Total dept: Date drill: 111

Bedrock de: 0 Top screen:

Bottom scr: 109 Longitude: -101.289815792625 48.2391143438406 ND5000000027774 Latitude: Site id:

North 1/4 - 1/2 Mile Lower

ND WELLS ND5000000027818

ND WELLS

ND WELLS

ND5000000027773

Site index: 14388 Location: 15508324BBAR Swc well n: County: Ward

Basin: Souris River Aquifer: Surface Water Purpose: Surface Water Monitoring Site Casing: Not Reported Diameter: 0 Measuring: 1558.37 Land surfa: 0 Elev type: Survey 0.01 ft

 Date drill:
 00/00/00
 Total dept:
 0

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.292735106003 Latitude: 48.2400840621935 Site id: ND500000027818

7 NE ND WELLS ND500000027753

1/4 - 1/2 Mile Lower

 Site index:
 14358
 Location:
 15508324BAAC

13016 County: Swc well n: Ward Basin: Souris River Aquifer: Minot Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1552.35 Land surfa: 1550.98 Elev type: Survey 0.01 ft

 Date drill:
 07/29/1992
 Total dept:
 280

 Bedrock de:
 229
 Top screen:
 98

Bottom scr: 103 Longitude: -101.287774263415 Latitude: 48.23867309616 Site id: ND5000000027753

B8

NNW ND WELLS ND500000027834
1/2 - 1 Mile
Lower

 Site index:
 15272
 Location:
 15508314DDD4

Swc well n: 5412 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1556 Elev type: Elevation Derived from Topo Map

 Date drill:
 07/19/1969
 Total dept:
 200

 Bedrock de:
 135
 Top screen:
 0

Bottom scr: 0 Longitude: -101.296732949814 Latitude: 48.2410135183907 Site id: ND500000027834

B9 NNW ND WELLS ND500000027831 1/2 - 1 Mile

Lower

 Site index:
 14343
 Location:
 15508314DDD5

Swc well n: 13006 County: Ward Aquifer: Souris River Minot Basin: Purpose: Observation Well Casing: **PVC** Diameter: 2 Measuring: 1555.27 Land surfa: 1553.3 Elev type: Survey 0.01 ft

 Date drill:
 06/22/1992
 Total dept:
 300

 Bedrock de:
 214
 Top screen:
 128

Bottom scr: 133 Longitude: -101.297204013555 Latitude: 48.240963735357 Site id: ND500000027831

Map ID Direction Distance

Elevation Database EDR ID Number **B10**

NNW

1/2 - 1 Mile Lower

Site index: 15502 Location: 15508314DDD6

13167A Ward Swc well n: County: Souris River Basin: Souris Valley Aquifer: **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1555.69 Land surfa: 1553.56 Elev type: Survey 0.01 ft Date drill: 05/25/1993 Total dept: 90

Bedrock de: 0 Top screen: 75

-101.297253241841 Bottom scr: 85 Longitude: Latitude: 48.2409634016082 Site id: ND5000000027830

B11 NNW **ND WELLS** ND5000000027829

1/2 - 1 Mile Lower

> Site index: 15503 Location: 15508314DDD7

> Swc well n: 13167B County: Ward Basin: Souris River Aquifer: Souris Valley **Observation Well PVC** Purpose: Casing: Diameter: 2 Measuring: 1555.13 1553.65 Survey 0.01 ft Land surfa: Elev type:

Date drill: 05/25/1993 Total dept: 40 Bedrock de: 0 Top screen: 29

-101.297302470126 34 Bottom scr: Longitude: 48.2409630678421 ND5000000027829 Latitude: Site id:

B12 NNW 1/2 - 1 Mile Lower

> 15508314DDD1 Site index: 15135 Location:

USGS T1 Swc well n: County: Ward Souris River Basin: Aquifer: Minot Purpose: **Observation Well** Casing: ABS Diameter: Measuring: 1555

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

01/01/1945 Total dept: Date drill: 288 Bedrock de: 248 Top screen:

Bottom scr: 134 Longitude: -101.296733865228 48.2410738057497 ND5000000027837 Latitude: Site id:

B13 NNW 1/2 - 1 Mile Lower

ND WELLS ND500000027839

ND5000000027837

ND WELLS

ND WELLS

Site index: 11431 Location: 15508314DDD2

Swc well n: MIN. 05 County: Ward Basin: Souris River Aquifer: Minot Purpose: Municipal Well Casing: Steel Diameter: Measuring: 1554 12

Land surfa: 1554 Elev type: Elevation Derived from Topo Map

 Date drill:
 09/09/1946
 Total dept:
 147

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 147 Longitude: -101.2968947731 Latitude: 48.2411330089969 Site id: ND500000027839

B14 NNW 1/2 - 1 Mile Lower

Site index: 11432 Location: 15508314DDD3

MIN. 06 County: Ward Swc well n: Basin: Souris River Aquifer: Minot Purpose: Municipal Well Casing: Steel Diameter: 16 Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 12/14/1947
 Total dept:
 139

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 139 Longitude: -101.297205845465 Latitude: 48.2410843100658 Site id: ND500000027838

15 NNE 1/2 - 1 Mile Lower

Site index: 14529 Location: 15508313CDCA

Swc well n: 13124 County: Ward Souris River Aquifer: Minot Basin: PVC Purpose: **Observation Well** Casing: Diameter: 2 Measuring: 1553.11 Land surfa: 1551.46 Elev type: Survey 0.01 ft Date drill: 10/29/1992 Total dept: 145 Bedrock de: 0 Top screen: 118

Bottom scr: 123 Longitude: -101.288834660322 Latitude: 48.240984548162 Site id: ND500000027833

Latitude. 40.240304040102 Site Id. 1403000000027033

1/2 - 1 Mile Lower

 Site index:
 15187
 Location:
 15508323BDA1

Swc well n: CT 12 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1915
 Total dept:
 137

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.307265442656 Latitude: 48.2354549545043 Site id: ND500000027682

ND WELLS

ND WELLS

ND5000000027838

Map ID Direction Distance

Elevation Database EDR ID Number

1/2 - 1 Mile Lower

Agency cd: USGS Site no: 481434101174701

Site name: 155-083-14DDD1

 Latitude:
 481434
 EDR Site id:
 USGS2911595

 Longitude:
 1011747
 Dec lat:
 48.24278736

 Dec lon:
 -101.29682881
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

Coor accr:FLatlong datum:NAD2Dec latlong datum:NAD83District:38State:38County:101

Country: US Land net: SESESES14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1554

Altitude method: Interpolated from topographic map

Altitude accuracy: 1.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19460101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 147 Hole depth: Not Reported

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date:0000-00-00Peak flow data end date:0000-00-00Peak flow data count:0Water quality data begin date:0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 57.00

C18

NNW 1/2 - 1 Mile Lower **FED USGS**

USGS2911596

Agency cd: USGS Site no: 481434101174702

Site name: 155-083-14DDD2

 Latitude:
 481434
 EDR Site id:
 USGS2911596

 Longitude:
 1011747
 Dec lat:
 48.24278736

 Dec Ion:
 -101.29682881
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: SESESES14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1554

Altitude method: Interpolated from topographic map
Altitude accuracy: 1.

Altitude datum: National Geodetic Vertical Datum of 1929
Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19470101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 139 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 55.00

D19
West ND WELLS ND500000027664

1/2 - 1 Mile Lower

> Site index: 15492 Location: 15508323BDD3 Swc well n: 13161B County: Ward Souris River Aquifer: Souris Valley Basin: **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1556.97 Land surfa: 1555.37 Elev type: Survey 0.01 ft 05/18/1993

 Date drill:
 05/18/1993
 Total dept:
 40

 Bedrock de:
 0
 Top screen:
 28

Bottom scr: 33 Longitude: -101.309144733693 Latitude: 48.2338853582653 Site id: ND500000027664

Map ID Direction Distance

Elevation Database EDR ID Number **D20**

West 1/2 - 1 Mile **ND WELLS** ND5000000027662

Lower

Site index: 12203 Location: 15508323BDD2

13161A Ward Swc well n: County: Souris River Basin: Minot Aquifer: **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1556.89 Land surfa: 1555.29 Elev type: Survey 0.01 ft Date drill: 05/18/1993 Total dept: 140 132 108 Bedrock de: Top screen:

-101.309284025768 Bottom scr: 113 Longitude: Latitude: 48.2338734370651 Site id: ND5000000027662

D21 West

Lower

ND WELLS ND5000000027665 1/2 - 1 Mile

Site index: 15189 Location: 15508323BDD Swc well n: CT 11BT County: Ward

No Obs Well Installed Basin: Souris River Aquifer:

Purpose: Test Hole Casing: None Diameter: O Measuring:

Land surfa: 1552 Elev type: Elevation Derived from Topo Map

Date drill: 01/01/1961 Total dept: 122 Bedrock de: 0 Top screen: 0

-101.309282713087 0 Bottom scr: Longitude: 48.2340543278562 ND5000000027665 Latitude: Site id:

NNE 1/2 - 1 Mile

Lower

15508313CDB Site index: 14359 Location: 13017 Swc well n: Ward County:

Souris River Basin: Aquifer: Minot Purpose: Observation Well - Plugged Casing: **PVC** Diameter: Measuring: 1553

Land surfa: 1551.35 Elev type: Elevation Derived from Topo Map

07/30/1992 Total dept: Date drill: 307 307 Bedrock de: Top screen: 258

Bottom scr: 263 Longitude: -101.289456199089

48.2435729959032 ND5000000027859 Latitude: Site id:

E23 North 1/2 - 1 Mile Lower

ND WELLS ND500000027860

ND5000000027859

ND WELLS

 Site index:
 14538
 Location:
 15508313CBDC

Swc well n: 13117 County: Ward Basin: Souris River Aquifer: Minot **PVC** Purpose: Observation Well Casing: Diameter: Measuring: 1551.3 2 Survey 0.01 ft Land surfa: 1549.44 Elev type:

 Date drill:
 10/21/1992
 Total dept:
 274

 Bedrock de:
 260
 Top screen:
 238

 Bottom scr:
 241
 Longitude:
 -101.293025466314

 Latitude:
 48.2440943623589
 Site id:
 ND500000027860

24 West ND WELLS ND500000027680

1/2 - 1 Mile Lower

 Site index:
 15188
 Location:
 15508323BDA2

Swc well n: CT 7 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1915
 Total dept:
 133

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.309294540745 Latitude: 48.2353533057495 Site id: ND500000027680

E25
North
1/2 - 1 Mile
ND WELLS
ND5000000027861

Lower

Site index: 15499 Location: 15508313CBDC2

Swc well n: 13169A County: Ward Aquifer: Minot Basin: Souris River PVC Purpose: **Observation Well** Casing: Diameter: 2 Measuring: 1551.89 Land surfa: 1549.74 Elev type: Survey 0.01 ft Date drill: 05/23/1993 Total dept: 200

 Bedrock de:
 0
 Top screen:
 178

 Bottom scr:
 183
 Longitude:
 -101.293026087592

Latitude: 48.2441354673193 Site id: ND5000000027861

1/2 - 1 Mile Lower

Site index: 15500 Location: 15508313CBDC3

Swc well n: 13169B County: Ward Aquifer: Souris River Minot Basin: Purpose: **Observation Well** Casing: **PVC** Diameter: 2 Measuring: 1552.44 1550.07 Land surfa: Elev type: Survey 0.01 ft

 Date drill:
 05/25/1993
 Total dept:
 120

 Bedrock de:
 0
 Top screen:
 115

 Bottom scr:
 120
 Longitude:
 -101.293022564842

 Latitude:
 48.2441738596134
 Site id:
 ND500000027862

Map ID Direction Distance

Elevation Database EDR ID Number

Location:

County:

Aquifer:

Casing:

F27 NW

1/2 - 1 Mile

ND WELLS ND500000027848

ND5000000027673

ND5000000027850

Lower

Site index: 11430
Swc well n: MIN. 09
Basin: Souris River

Purpose: Observation Well - Destroyed
Diameter: 12

 Land surfa:
 1560

 Date drill:
 10/05/1960

 Bedrock de:
 157

Bottom scr: 148 Latitude: 48.2421531205506 Measuring: 1560
Elev type: Elevation Derived from Topo Map

Ward

Minot

Steel

15508314DCA

ND WELLS

ND WELLS

Total dept: 162
Top screen: 0

Longitude: -101.304053370565 Site id: ND5000000027848

D28 West 1/2 - 1 Mile

 Lower
 Site index:
 15186
 Location:
 15508323BD

Swc well n:CT 11County:WardBasin:Souris RiverAquifer:No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 148

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.310012879718

 Latitude:
 48.2345837231618
 Site id:
 ND500000027673

F29 NW

NW 1/2 - 1 Mile

Lower

15508314DCB Site index: 15133 Location: Swc well n: CITY OB Ward County: Souris River Basin: Aquifer: Minot Purpose: **Observation Well** Casing: Unknown Diameter: Measuring: 1555

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 07/17/1960
 Total dept:
 141

 Bedrock de:
 140
 Top screen:
 0

Bottom scr: 132 Longitude: -101.304243343185 Latitude: 48.2422340399883 Site id: ND500000027850

G30

NW 1/2 - 1 Mile Lower

ND WELLS ND500000027825

Site index: 15134 Location: 15508314DCC

Swc well n: MIN. 04 County: Ward Basin: Souris River Aquifer: Minot Purpose: Observation Well - Destroyed Casing: Steel 1548 Diameter: Measuring: 15

Land surfa: 1548 Elev type: Elevation Derived from Topo Map

 Date drill:
 09/04/1958
 Total dept:
 160

 Bedrock de:
 0
 Top screen:
 125

 Bottom scr:
 155
 Longitude:
 -101.306725362158

 Latitude:
 48.2408850982838
 Site id:
 ND500000027825

31 NE ND WELLS ND500000027840 1/2 - 1 Mile

1/2 - 1 Mi Lower

1/2 - 1 Mile Lower

Swc well n:

Site index: 14530 Location: 15508313DCDA

County: Swc well n: 13123 Ward Basin: Souris River Aquifer: Minot Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1550.65 Land surfa: 1550.65 Elev type: Survey 0.01 ft 10/28/1992 Date drill: Total dept: 200

 Date drill:
 10/28/1992
 Total dept:
 200

 Bedrock de:
 187
 Top screen:
 138

 Bottom scr:
 143
 Longitude:
 -101.281863086633

 Latitude:
 48.2411955445528
 Site id:
 ND500000027840

Site index: 15181 Location: 15508323BA3

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None

CT₂

Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map Date drill: 00/00/00 Total dept: 155

Bedrock de: 0 Top screen: 0

 Bottom scr:
 0
 Longitude:
 -101.309343486762

 Latitude:
 48.23799493442
 Site id:
 ND500000027728

I33
NE
ND WELLS
ND 5000000027858
1/2 - 1 Mile

County:

Lower

 Site index:
 14537
 Location:
 15508313DCB2

Swc well n: 13118B County: Ward Aquifer: Souris River Minot Basin: Purpose: **Observation Well** Casing: **PVC** Diameter: 2 Measuring: 1551.29

Land surfa: 1549.19 Elev type: Global Position Survey

 Date drill:
 10/22/1992
 Total dept:
 197

 Bedrock de:
 0
 Top screen:
 182

 Bottom scr:
 193
 Longitude:
 -101.28422454396

 Latitude:
 48.2427255242135
 Site id:
 ND500000027858

Ward

Map ID Direction Distance

Elevation Database EDR ID Number

NNW **FED USGS** USGS2911599

1/2 - 1 Mile Lower

> Agency cd: **USGS** Site no: 481436101180800

155-083-14DCA Site name:

Latitude: 481436 EDR Site id: USGS2911599 Longitude: 1011808 Dec lat: 48.24334291 Dec Ion: -101.30266225 Coor meth: Coor accr: F Latlong datum: NAD27 38

Dec latlong datum: NAD83 District: 101 38 County: State:

NESWSES14T155NR083W5 Country: US Land net:

Location map: Not Reported Map scale: Not Reported

Altitude: 1560

Altitude method: Interpolated from topographic map

Altitude accuracy:

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19600101 Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag:

Type of ground water site: Single well, other than collector or Ranney type

Not Reported Aquifer Type:

Aguifer: **BURIED GLACIOFLUVIAL DEPOSITS**

Well depth: 148 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

0

Daily flow data begin date: 0000-00-00 Real time data flag: Daily flow data end date: 0000-00-00 Daily flow data count:

Peak flow data begin date: 0000-00-00 Peak flow data end date:

0000-00-00 Peak flow data count: Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count:

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1966-08-01 52.00

135 **ND WELLS** ND5000000027856 NF

1/2 - 1 Mile Lower

> 15508313DCB1 Site index: 14536 Location:

Swc well n: 13118A County: Ward Souris River Aquifer: Minot Basin: Purpose: **Observation Well** Casing: **PVC** Diameter: 2 Measuring: 1550.54

1548.65 Land surfa: Elev type: Global Position Survey

Date drill: 10/22/1992 Total dept: 240 Bedrock de: 226 Top screen:

Bottom scr: 201 Longitude: -101.284134247968 48.2427233857286 ND5000000027856 Latitude: Site id:

Map ID Direction Distance

Elevation Database EDR ID Number

WNW 1/2 - 1 Mile

H36 **ND WELLS** ND5000000027736

Lower

Site index: 15097 Location: 15508323BAA1

MIN. 01 Ward Swc well n: County: Souris River Minot Basin: Aquifer: Observation Well - Destroyed Purpose: Casing: Steel Diameter: Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map 00/00/00 Total dept: 138 Date drill:

92 Bedrock de: 0 Top screen:

-101.309503848329 Bottom scr: 132 Longitude: Latitude: 48.238284336881 Site id: ND5000000027736

H37 WNW 1/2 - 1 Mile

Lower

15098 Location: 15508323BAA2 Site index: Swc well n: MIN. 02 County: Ward Basin: Souris River Aquifer: Minot Observation Well - Destroyed Purpose: Casing: Steel 1550 Diameter: 12 Measuring:

1550 Land surfa: Elev type: Elevation Derived from Topo Map

Date drill: 00/00/00 Total dept: 132 Bedrock de: 0 Top screen: 92

-101.309486254495 132 Longitude: Bottom scr: 48.2384735611538 ND5000000027745 Latitude: Site id:

H38 WNW 1/2 - 1 Mile Lower

15508323BAA3 Site index: 11448 Location:

Swc well n: MIN. 07 County: Ward Basin: Souris River Aquifer: Minot Purpose: Observation Well - Destroyed Casing: Steel Diameter: Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

02/10/1948 Total dept: Date drill: 125 Bedrock de: 0 Top screen:

Bottom scr: 125 Longitude: -101.309473269982 48.2386956411698 ND5000000027758 Latitude: Site id:

H39 WNW 1/2 - 1 Mile

Lower

FED USGS USGS2911757

ND WELLS

ND WELLS

ND5000000027745

Agency cd: USGS Site no: 481419101183300

Site name: 155-083-23BAB

 Latitude:
 481419
 EDR Site id:
 USGS2911757

 Longitude:
 1011833
 Dec lat:
 48.23862066

 Dec Ion:
 -101.3096068
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: NWNENWS23T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1555

Altitude method: Interpolated from topographic map
Altitude accuracy: 5.

Altitude datum: National Geodetic Vertical Datum of 1929
Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19480101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag:

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 133 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 55.00

J40
WNW ND WELLS ND500000027705
1/2 - 1 Mile

Lower

 Site index:
 14348
 Location:
 15508323BAC1

 Swc well n:
 13009A
 County:
 Ward

Souris River Aquifer: Minot Basin: **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1556.25 Land surfa: 1554.81 Elev type: Survey 0.01 ft

 Date drill:
 07/20/1992
 Total dept:
 150

 Bedrock de:
 140
 Top screen:
 118

 Bottom scr:
 123
 Longitude:
 -101.310632635666

 Latitude:
 48.2369939470861
 Site id:
 ND500000027705

Map ID Direction Distance

Elevation Database EDR ID Number

J41 WNW 1/2 - 1 Mile

ND WELLS ND500000027703

ND5000000027730

USGS2911781

ND WELLS

FED USGS

Lower

Site index: 14349 Location: 15508323BAC2 13009B Ward Swc well n: County: Souris River Souris Valley Basin: Aquifer: PVC Purpose: Observation Well Casing: Diameter: Measuring: 1557.1

 Land surfa:
 1555.02
 Elev type:
 Survey 0.01 ft

 Date drill:
 07/21/1992
 Total dept:
 40

Bedrock de: 0 Top screen: 33

 Bottom scr:
 38
 Longitude:
 -101.310743094368

 Latitude:
 48.2369740011259
 Site id:
 ND500000027703

H42 WNW 1/2 - 1 Mile

1/2 - 1 Mile Lower

11449 Location: 15508323BAB1 Site index: Swc well n: MIN. 08 County: Ward Souris River Basin: Aquifer: Minot Municipal Well Casing: Purpose: Steel 1555 Diameter: 16 Measuring:

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 06/10/1948
 Total dept:
 133.5

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 132.5 Longitude: -101.310563339657 Latitude: 48.2380851944181 Site id: ND500000027730

G43 NW 1/2 - 1 Mile Lower

Agency cd: USGS Site no: 481430101182500

Site name: 155-083-14DCC

 Latitude:
 481430
 EDR Site id:
 USGS2911781

 Longitude:
 1011825
 Dec lat:
 48.24167623

 Dec Ion:
 -101.30738455
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: SWSWSES14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1548

Altitude method: Interpolated from topographic map

Altitude accuracy: 1.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19470101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag:

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

BURIED GLACIOFLUVIAL DEPOSITS Aquifer:

Well depth: 155 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count:

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00 Peak flow data count:

Water quality data end date:0000-00-00 Water quality data count:

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to Date Surface Sealevel

1966-08-01 60.00

H44 **ND WELLS** ND5000000027741 WNW

1/2 - 1 Mile Lower

> 15508323BA2 Site index: 15180 Location: CT 1 Swc well n: County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casina: None Diameter: Measuring:

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

00/00/00 Total dept: 154 Date drill: Top screen: Bedrock de: 0

Bottom scr: Longitude: -101.310452797184 Latitude: 48.2383655002259 Site id: ND5000000027741

WNW 1/2 - 1 Mile Lower

0

Site index: 14387 Location: 15508323BAAR

SOURIS County: Ward Swc well n: Basin: Souris River Aquifer: Surface Water Surface Water Monitoring Site Casing: Not Reported Purpose: 1555.88

Land surfa: 0 Elev type: Global Position Survey

Measuring:

Date drill: 00/00/00 Total dept: Bedrock de: 0 Top screen: 0

-101.31039604726 Bottom scr: n Longitude: Latitude: 48.2386755820343 Site id: ND5000000027755

WNW 1/2 - 1 Mile Lower

Diameter:

ND WELLS ND5000000027816

ND5000000027755

ND WELLS

 Site index:
 15179
 Location:
 15508323BA1

 Swc well n:
 CT 8
 County:
 Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 135

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.309443615656 Latitude: 48.2399647541281 Site id: ND500000027816

K47 NW ND WELLS ND500000027828

NW 1/2 - 1 Mile Lower

Site index: 15125 Location: 15508314CDD1

MIN. 03 County: Ward Swc well n: Basin: Souris River Aquifer: Minot Purpose: Municipal Well Casing: Steel Diameter: 12 Measuring: 1548

Land surfa: 1548 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1931
 Total dept:
 164

 Bedrock de:
 0
 Top screen:
 138

 Bottom scr:
 158
 Longitude:
 -101.308486365977

 Latitude:
 48.2409442601834
 Site id:
 ND5000000027828

K48 NW 1/2 - 1 Mile Lower

Site index: 15130 Location: 15508314CDD4

Swc well n: BOR. 2 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None

Diameter: 0 Measuring: 0 Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 10/30/1964
 Total dept:
 91

 Bedrock de:
 0
 Top screen:
 0

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.308344676063

Latitude: 48.241334402354 Site id: ND5000000027842

49

NE 1/2 - 1 Mile Lower

 Site index:
 14535
 Location:
 15508313DCA

Swc well n: 13119 County: Ward Aquifer: Souris River Minot Basin: Purpose: Observation Well Casing: **PVC** Diameter: 2 Measuring: 1549.19 1547.32 Land surfa: Elev type: Survey 0.01 ft

 Date drill:
 10/22/1992
 Total dept:
 240

 Bedrock de:
 178
 Top screen:
 118

 Bottom scr:
 123
 Longitude:
 -101.281473336356

 Latitude:
 48.2425739213476
 Site id:
 ND500000027855

ND WELLS

ND WELLS

ND5000000027842

Map ID Direction Distance

Elevation Database EDR ID Number

K50 NW

1/2 - 1 Mile

Lower

Site index: 15126 Location: 15508314CDD2

Swc well n: CT 3 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Municipal Well Casing: None Diameter: 0 Measuring: 1553

Land surfa: 1553 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1938
 Total dept:
 161

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.308313376751

 Latitude:
 48.2414332798216
 Site id:
 ND500000027845

K51 NW 1/2 - 1 Mile

 Lower
 Site index:
 15127
 Location:
 15508314CDD3

Swc well n: BW2 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 09/30/1964
 Total dept:
 127

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.308402573799 Latitude: 48.2413641511695 Site id: ND500000027843

L52 East

East 1/2 - 1 Mile Lower

 Site index:
 14355
 Location:
 15508324ADDA2

Swc well n: 13014B County: Ward Souris River Basin: Aquifer: Souris Valley Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1549.48 Land surfa: 1548.28 Elev type: Survey 0.01 ft

 Date drill:
 07/24/1992
 Total dept:
 40

 Bedrock de:
 0
 Top screen:
 20

Bottom scr: 25 Longitude: -101.275343671927 Latitude: 48.2348037487285 Site id: ND500000027675

M53 ENE 1/2 - 1 Mile Lower

ND WELLS ND500000027756

ND WELLS

ND WELLS

ND WELLS

ND5000000027845

ND5000000027843

Site index: 15192 Location: 15508324AAA1

Swc well n: 2217 County: Ward Basin: Souris River Aquifer: Minot Purpose: Observation Well - Destroyed Casing: **ABS** 1560 Diameter: 1.25 Measuring:

Land surfa: 1560 Elev type: Elevation Derived from Topo Map

 Date drill:
 11/19/1963
 Total dept:
 128

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 110 Longitude: -101.276672685785 Latitude: 48.2386756904724 Site id: ND500000027756

L54
East ND WELLS ND500000027677
1/2 - 1 Mile

Lower

 Site index:
 14354
 Location:
 15508324ADDA1

13014A County: Swc well n: Ward Basin: Souris River Aquifer: Minot Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1549.62 Survey 0.01 ft Land surfa: 1548.14 Elev type: 07/22/1992 Date drill: Total dept: 180

 Date drill:
 07/22/1992
 Total dept:
 180

 Bedrock de:
 169
 Top screen:
 118

 Bottom scr:
 123
 Longitude:
 -101.275274101783

 Latitude:
 48.2348151699464
 Site id:
 ND500000027677

M55 ENE 1/2 - 1 Mile

Site index: 15193 Location: 15508324AAA2

Swc well n:2217ACounty:WardBasin:Souris RiverAquifer:Souris ValleyPurpose:Observation Well - DestroyedCasing:ABSDiameter:4Measuring:1560

Land surfa: 1560 Elev type: Elevation Derived from Topo Map

 Date drill:
 11/19/1963
 Total dept:
 40

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 40 Longitude: -101.276594703637 Latitude: 48.2386734649074 Site id: ND500000027754

N56 NNW ND WELLS ND500000027868 1/2 - 1 Mile

Lower

Lower

 Site index:
 15498
 Location:
 15508314DBA3

Swc well n: 13166 County: Ward Souris River Aquifer: Minot Basin: Purpose: Observation Well Casing: **PVC** Diameter: 2 Measuring: 1560.32 1558.45 Land surfa: Elev type: Survey 0.01 ft

 Date drill:
 05/24/1993
 Total dept:
 200

 Bedrock de:
 195
 Top screen:
 138

 Bottom scr:
 143
 Longitude:
 -101.30312376421

 Latitude:
 48.2454838378458
 Site id:
 ND500000027868

ND WELLS

Map ID Direction Distance

Elevation Database EDR ID Number 057

NW 1/2 - 1 Mile

Lower

Site index: 14346 Location: 15508314CDA2

13007 Ward Swc well n: County: Basin: Souris River Minot Aquifer: **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1557.83 Land surfa: 1556.24 Elev type: Survey 0.01 ft Date drill: 06/29/1992 Total dept: 200

 Bedrock de:
 158
 Top screen:
 138

 Bottom scr:
 143
 Longitude:
 -101.309

Bottom scr: 143 Longitude: -101.309053485237 Latitude: 48.2423353351957 Site id: ND500000027852

58 NNW 1/2 - 1 Mile Lower

NW ND WELLS ND500000027876

Site index: 29002 Location: 15508314DAB Swc well n: 2233 County: Ward Basin: Souris River Aquifer: Undefined Observation Well - Destroyed PVC Purpose: Casing: Diameter: 1.25 Measuring: 0

Land surfa: 0 Elev type: Not Reported

 Date drill:
 05/14/1964
 Total dept:
 294

 Bedrock de:
 279
 Top screen:
 0

Bottom scr: 170 Longitude: -101.300178834072 Latitude: 48.2463644634937 Site id: ND500000027876

59 West 1/2 - 1 Mile

Location: 15508323BCA

Swc well n:13011County:WardBasin:Souris RiverAquifer:MinotPurpose:Observation WellCasing:PVCDiameter:2Measuring:1558.21

Land surfa: 1556.63 Elev type: Global Position Survey

 Date drill:
 07/21/1992
 Total dept:
 127

 Bedrock de:
 0
 Top screen:
 118

 Bottom scr:
 123
 Longitude:
 -101.313579696137

 Latitude:
 48.2355018743335
 Site id:
 ND5000000027683

O60 NW 1/2 - 1 Mile Lower

ND WELLS ND500000027853

ND5000000027683

ND WELLS

ND WELLS

 Site index:
 15501
 Location:
 15508314CDA3

Swc well n: 13168 County: Ward Basin: Souris River Aquifer: Souris Valley Purpose: **Observation Well** Casing: **PVC** Diameter: Measuring: 1558.42 2 Land surfa: 1556.42 Elev type: Survey 0.01 ft

 Date drill:
 05/25/1993
 Total dept:
 40

 Bedrock de:
 0
 Top screen:
 22

 Bottom scr:
 27
 Longitude:
 -101.309054541593

 Latitude:
 48.2424038433932
 Site id:
 ND500000027853

61 NW FED USGS USGS2911598

1/2 - 1 Mile Lower

Agency cd: USGS Site no: 481435101182800

Site name: 155-083-14CDA

 Latitude:
 481435
 EDR Site id:
 USGS2911598

 Longitude:
 1011828
 Dec lat:
 48.24306512

 Dec Ion:
 -101.3082179
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: NESESWS14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1550

Altitude method: Interpolated from topographic map

Altitude accuracy: 5.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19600101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 139 Hole depth: Not Reported

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data count: 0 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 53.00

Map ID Direction Distance

Elevation Database EDR ID Number

O62 NW

ND WELLS ND5000000027857

1/2 - 1 Mile Lower

> Site index: 11428 Location: 15508314CDA

MIN. 10 Ward Swc well n: County: Basin: Souris River Minot Aquifer: Observation Well - Destroyed Purpose: Casing: Steel Diameter: Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

Date drill: 10/29/1960 Total dept: 139 0 0 Bedrock de: Top screen:

-101.309084100304 Bottom scr: 139 Longitude: Latitude: 48.2427242923678 Site id: ND5000000027857

P63 WNW 1/2 - 1 Mile

ND WELLS ND5000000027737

Lower

11452 Location: 15508323BB Site index: Swc well n: CT 10 County: Ward Souris River Basin: Aquifer: Minot Observation Well Purpose: Casing: Unknown Diameter: 5 Measuring: 1550

1550 Land surfa: Elev type: Elevation Derived from Topo Map

Date drill: 00/00/00 Total dept: 126 Bedrock de: 0 Top screen: 0

-101.3132048272 126 Bottom scr: Longitude: 48.2383136125015 ND5000000027737 Latitude: Site id:

ND WELLS ND5000000027824 **ENE**

1/2 - 1 Mile Lower

> 15508313DDD Site index: 14534 Location: Swc well n: 13120 Ward County: Souris River Basin: Aquifer: Minot Purpose: **Observation Well** Casing: PVC

Diameter: Measuring: 1551.92 Land surfa: 1549.92 Elev type: Survey 0.01 ft

10/23/1992 Total dept: Date drill: 180 Bedrock de: 164 Top screen: 107

Bottom scr: 112 Longitude: -101.276633570018 48.2407451105967 ND5000000027824 Latitude: Site id:

N65 NNW 1/2 - 1 Mile Lower

ND WELLS ND500000027873

Site index: 15131 Location: 15508314DBA2

Swc well n: M STATE County: Ward Basin: Souris River Aquifer: Minot Purpose: Domestic Well Casing: Steel 1562 Diameter: 8 Measuring:

Land surfa: Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1956
 Total dept:
 212

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 141 Longitude: -101.30316501765 Latitude: 48.2460344188948 Site id: ND500000027873

N66 NNW ND WELLS ND500000027872 1/2 - 1 Mile

Lower

Site index: 11429 Location: 15508314DBA1

Swc well n:2233County:WardBasin:Souris RiverAquifer:MinotPurpose:Observation WellCasing:ABSDiameter:1.25Measuring:1568

Land surfa: Elev type: Elevation Derived from Topo Map

 Date drill:
 05/14/1964
 Total dept:
 293

 Bedrock de:
 278
 Top screen:
 0

Bottom scr: 170 Longitude: -101.303234764407 Latitude: 48.246033942549 Site id: ND500000027872

N67

NNW 1/2 - 1 Mile Lower

Site index: 15132 Location: 15508314DBB

Swc well n: 2234 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None

Diameter: 0 Measuring: 0 Land surfa: 1569 Elev type: Elevation Derived from Topo Map

Date drill: 05/14/1964 Total dept: 200

Bedrock de: 0 Top screen: 0

 Bottom scr:
 0
 Longitude:
 -101.303402683436

 Latitude:
 48.246013611278
 Site id:
 ND500000027871

Higher

 Site index:
 15095
 Location:
 15508325AAB1

 Swc well n:
 11364A
 County:
 Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1730 Elev type: Elevation Derived from Topo Map

 Date drill:
 10/20/1983
 Total dept:
 380

 Bedrock de:
 345
 Top screen:
 0

Bottom scr: 0 Longitude: -101.278864577258 Latitude: 48.2246538542978 Site id: ND500000027560

ND WELLS

Map ID Direction Distance

Elevation Database EDR ID Number

NNW

N69

ND WELLS ND500000027875

1/2 - 1 Mile Lower

 Site index:
 29003
 Location:
 15508314DBA

Swc well n: 2234 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 0 Elev type: Not Reported Date drill: 05/14/1964 Total dept: 189

 Date drill:
 05/14/1964
 Total dept:
 189

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.302858198696

 Latitude:
 48.2463626464586
 Site id:
 ND500000027875

Q70 SE

SE ND WELLS ND5000000027556 1/2 - 1 Mile

Higher

Site index: 11471 Location: 15508325AAB2

Swc well n: 11364B County: Ward Basin: Souris River Aquifer: South Hill Observation Well - Plugged Casing: Steel Purpose: Diameter: Measuring: 1722.49 1719.9 Survey 0.1 ft Land surfa: Elev type: Date drill: 11/03/1983 Total dept: 400

Bedrock de: 0 Top screen: 336

 Bottom scr:
 345
 Longitude:
 -101.278765093921

 Latitude:
 48.2245832568103
 Site id:
 ND500000027556

R71 WNW 1/2 - 1 Mile Lower

Agency cd: USGS Site no: 481413101185000

Site name: 155-083-23BBD

 Latitude:
 481413
 EDR Site id:
 USGS2911752

 Longitude:
 1011850
 Dec lat:
 48.23695398

 Dec Ion:
 -101.3143291
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: SENWNWS23T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1554

Altitude method: Interpolated from topographic map

Altitude accuracy: 1.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19610101

Date inventoried: Not Reported Mean greenwich time offset: CST

FED USGS

USGS2911752

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aguifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 130 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 52.00

\$72 WNW ND WELLS ND500000027815

1/2 - 1 Mile Lower

> 15508323BAB3 Site index: 11451 Location: Swc well n: 2227A County: Ward Basin: Souris River Aquifer: Souris Valley Observation Well Purpose: Casina: ABS Diameter: 1.25 Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 05/11/1964
 Total dept:
 21

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 21
 Longitude:
 -101.312816021785

 Latitude:
 48.2399634165778
 Site id:
 ND5000000027815

P73
WNW
ND WELLS ND500000027735
1/2 - 1 Mile
Lower

Site index: 11456 Location: 15508323BBA5

2226 County: Ward Swc well n: Basin: Souris River Aquifer: Minot Observation Well - Plugged Casing: **ABS** Purpose: 1550 Diameter: 1.25 Measuring:

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 05/07/1964
 Total dept:
 117

 Bedrock de:
 0
 Top screen:
 114

Bottom scr: 117 Longitude: -101.313905740766 Latitude: 48.2382731348976 Site id: ND500000027735

P74 WNW 1/2 - 1 Mile Lower

ND WELLS ND500000027738

TC03344483.2r Page A-56

Site index: 11457 Location: 15508323BBA6

Swc well n:2226ACounty:WardBasin:Souris RiverAquifer:Souris ValleyPurpose:Observation WellCasing:ABS

Diameter: 1.25 Measuring: 1550
Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 05/07/1964
 Total dept:
 21

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 21
 Longitude:
 -101.313914752632

 Latitude:
 48.2383251444349
 Site id:
 ND500000027738

\$75 WNW ND WELLS ND500000027817

1/2 - 1 Mile Lower

 Site index:
 11450
 Location:
 15508323BAB2

Swc well n:2227County:WardBasin:Souris RiverAquifer:MinotPurpose:Observation Well - PluggedCasing:ABSDiameter:1.25Measuring:1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 05/11/1964
 Total dept:
 120

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 118 Longitude: -101.312914646095 Latitude: 48.239973697317 Site id: ND500000027817

T76
NNE
ND WELLS
ND5000000027881
1/2 - 1 Mile

Lower

 Site index:
 14531
 Location:
 15508313BDDC1

Swc well n: 13122A County: Ward Aquifer: Minot Basin: Souris River PVC Purpose: Observation Well Casing: Diameter: 2 Measuring: 1589.16 Survey 0.01 ft Land surfa: 1587.06 Elev type: Date drill: 10/27/1992 Total dept: 230 Bedrock de: 222 Top screen: 178

Bottom scr: 183 Longitude: -101.287433846642 Latitude: 48.2471548236931 Site id: ND500000027881

Latitude. 46.2471346236931 Site id. ND5000000027661

Lower

 Site index:
 14532
 Location:
 15508313BDDC2

Swc well n: 13122B County: Ward Souris River Aquifer: Minot Basin: Purpose: Observation Well Casing: **PVC** Diameter: 2 Measuring: 1589.02 1587.42 Land surfa: Elev type: Survey 0.01 ft

 Date drill:
 10/28/1992
 Total dept:
 140

 Bedrock de:
 0
 Top screen:
 118

 Bottom scr:
 123
 Longitude:
 -101.287195552612

 Latitude:
 48.2471344941101
 Site id:
 ND500000027880

Map ID Direction Distance

Elevation Database EDR ID Number U78

West 1/2 - 1 Mile ND WELLS ND500000027670

Lower

 Site index:
 15182
 Location:
 15508323BC1

 Swc well n:
 CT 3
 County:
 Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 75

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.315386258952

 Latitude:
 48.23454384179
 Site id:
 ND500000027670

U79 West 1/2 - 1 Mile

est ND WELLS ND500000027671

Lower

 Site index:
 15183
 Location:
 15508323BC2

 Swc well n:
 CT 4
 County:
 Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 43

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.315386258952

 Latitude:
 48.23454384179
 Site id:
 ND500000027671

U80 West

1/2 - 1 Mile Lower

_ower

Site index: 15184 Location: 15508323BC3
Swc well n: CT 6 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 126

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.315386258952

 Latitude:
 48.23454384179
 Site id:
 ND500000027672

ENE 1/2 - 1 Mile Lower

ND WELLS ND500000027800

ND5000000027672

ND WELLS

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Site index: 15066 Location: 15508219BB Swc well n: County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 180

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.274343235065

 Latitude:
 48.2395653086429
 Site id:
 ND500000027800

R82
West ND WELLS ND500000027700

West 1/2 - 1 Mile Lower

> Site index: 11469 Location: 15508323BBD Ward Swc well n: MIN. 11 County: Basin: Souris River Aquifer: Minot Purpose: Municipal Well Casing: Steel Diameter: 16 Measuring: 1554

Land surfa: 1554 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1961
 Total dept:
 130

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 130
 Longitude:
 -101.315284147744

 Latitude:
 48.2366849835333
 Site id:
 ND500000027700

North 1/2 - 1 Mile Higher

Site index: 11427 Location: 15508314ADD Swc well n: County: Ward

Basin:Souris RiverAquifer:Surface WaterPurpose:Surface Water Monitoring SiteCasing:Not ReportedDiameter:0Measuring:1675

Land surfa: 0 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 0

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.297834264147

 Latitude:
 48.2481453429149
 Site id:
 ND500000027886

ND WELLS

ND5000000027886

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: ND Radon

Radon Test Results

Source	Total Sites	Average	Std. Dev.	Pct > 4 Pci/L	Pct > 20 Pci/L
					
wic	75	4.47	5.09	38.7	2.7
school	611	1.22	1.16	3.1	0.0
home	49	4.2	3.5	44.9	2.0
daycare	67	3.25	2.90	22.4	0.0
cluster	2	4.20	2.90	50.0	0.0
wic	2	0.95	0.15	0.0	0.0

Federal EPA Radon Zone for WARD County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 58701

Number of sites tested: 35

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.531 pCi/L	85%	15%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.894 pCi/L	43%	54%	3%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map. USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Locations

Source: State Water Commission Telephone: 701-328-2754

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Listing

Source: North Dakota Industrial Commission

Telephone: 701-328-8020

A listing of oil and gas well locations in the state.

RADON

State Database: ND Radon Source: Dept of Health Telephone: 701-328-5188

Radon Surveys in North Dakota. Includes cluster, day care, school, home, and women with infant children

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Appendix D

Historical Documentation



Minot Site 1
1st Street SW/3rd Avenue SW
Minot, ND 58701

Inquiry Number: 3344483.5

June 14, 2012

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc., All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Date EDR Searched Historical Sources:

Aerial Photography June 14, 2012

Target Property:

1st Street SW/3rd Avenue SW Minot, ND 58701

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 48101-B3, Minot, ND;/Flight Date: August 16, 1966	EDR
1974	Aerial Photograph. Scale: 1"=1000'	Panel #: 48101-B3, Minot, ND;/Flight Date: August 15, 1974	EDR
1982	Aerial Photograph. Scale: 1"=1000'	Panel #: 48101-B3, Minot, ND;/Flight Date: April 26, 1982	EDR
1984	Aerial Photograph. Scale: 1"=1000'	Panel #: 48101-B3, Minot, ND;/Flight Date: June 29, 1984	EDR
1992	Aerial Photograph. Scale: 1"=750'	Panel #: 48101-B3, Minot, ND;/Flight Date: August 18, 1992	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 48101-B3, Minot, ND;/Composite DOQQ - acquisition dates: May 18, 1995	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 48101-B3, Minot, ND;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 48101-B3, Minot, ND;/Flight Year: 2006	EDR





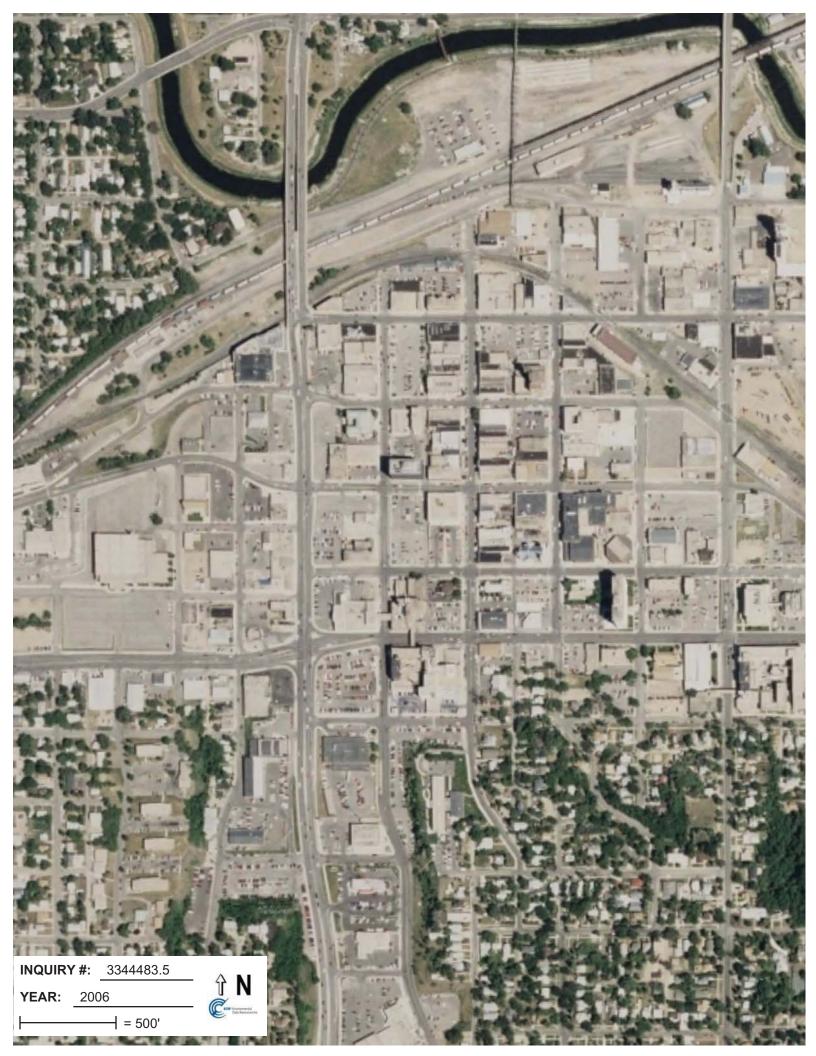












Minot Site 1
1st Street SW/3rd Avenue SW
Minot, ND 58701

Inquiry Number: 3344483.4

June 14, 2012

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

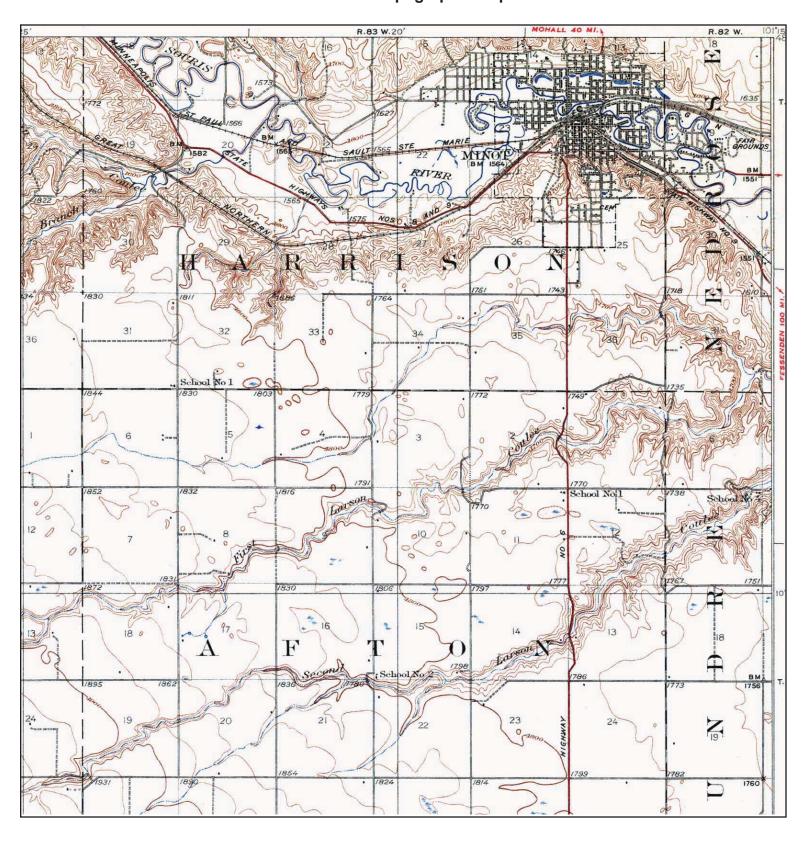
Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.





TARGET QUAD NAME: MINOT

MAP YEAR: 1928

SERIES: 15 SCALE: 1:62500 SITE NAME: Minot Site 1

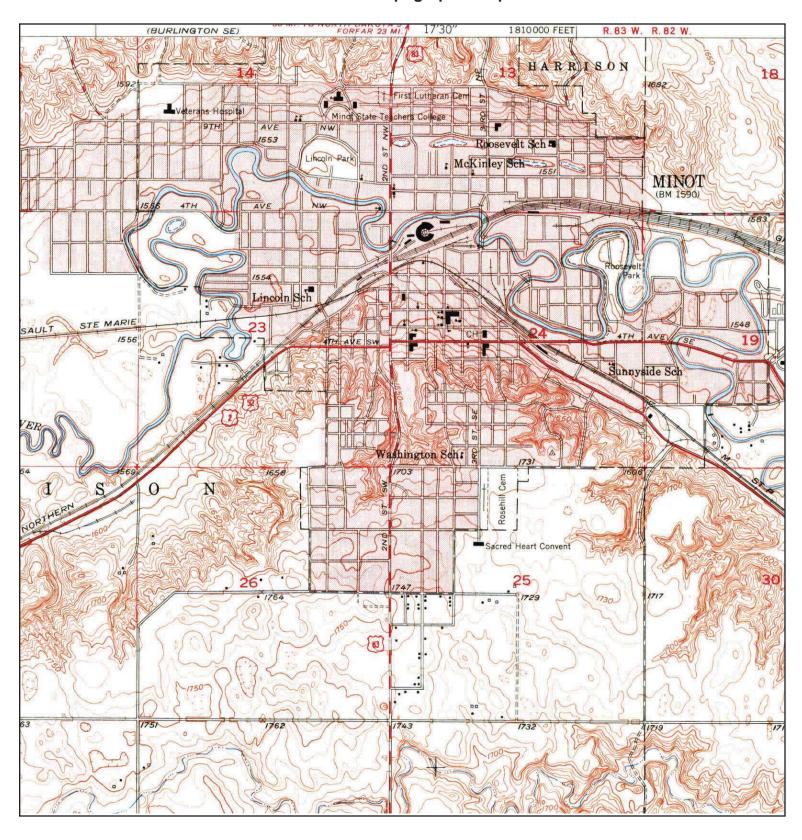
ADDRESS: 1st Street SW/3rd Avenue SW

Minot, ND 58701

LAT/LONG: 48.2339 / -101.2941

CLIENT: TriMedia CONTACT: Derek Senn INQUIRY#: 3344483.4

RESEARCH DATE: 06/14/2012



N

TARGET QUAD NAME: MINOT

MAP YEAR: 1949

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Minot Site 1

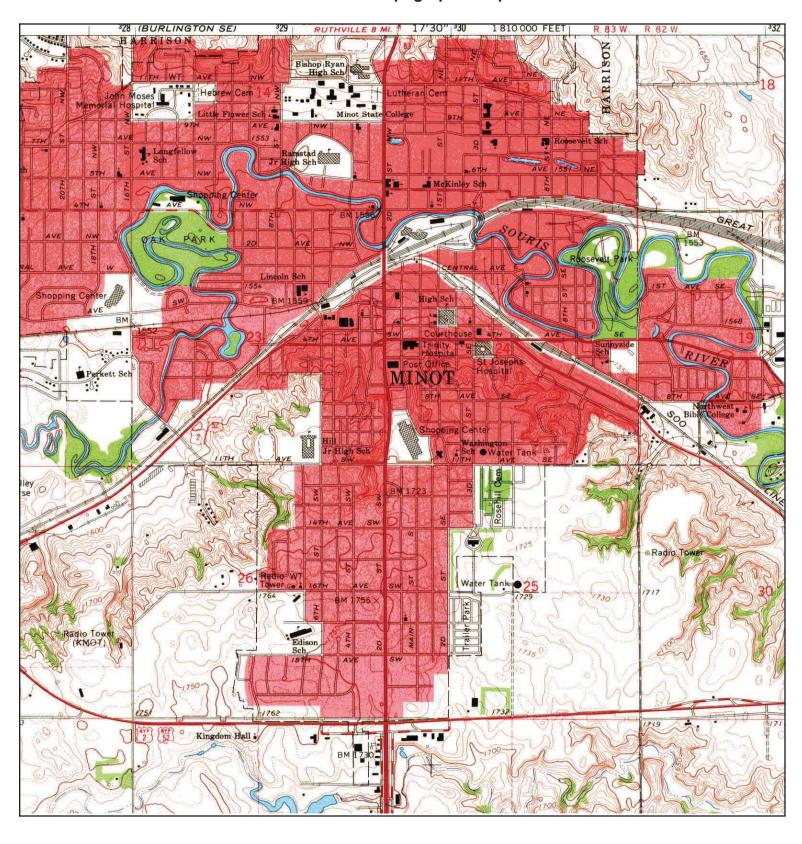
ADDRESS: 1st Street SW/3rd Avenue SW

Minot, ND 58701

LAT/LONG: 48.2339 / -101.2941

CLIENT: TriMedia CONTACT: Derek Senn INQUIRY#: 3344483.4

RESEARCH DATE: 06/14/2012



N

TARGET QUAD NAME: MINOT

MAP YEAR: 1966

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Minot Site 1

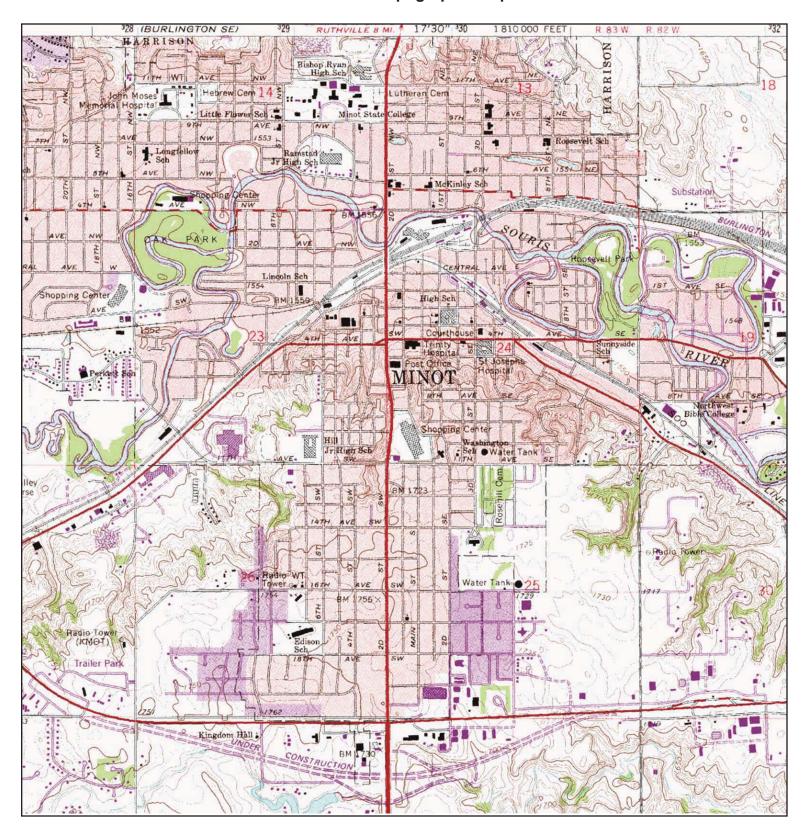
ADDRESS: 1st Street SW/3rd Avenue SW

Minot, ND 58701

LAT/LONG: 48.2339 / -101.2941

CLIENT: TriMedia
CONTACT: Derek Senn
INQUIRY#: 3344483.4

RESEARCH DATE: 06/14/2012





TARGET QUAD NAME: MINOT MAP YEAR: 1979

PHOTOREVISED FROM:1966

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Minot Site 1

ADDRESS: 1st Street SW/3rd Avenue SW

Minot, ND 58701

LAT/LONG: 48.2339 / -101.2941

CLIENT: TriMedia
CONTACT: Derek Senn
INQUIRY#: 3344483.4
RESEARCH DATE: 06/14/2012

Minot Site 1 1st Street SW/3rd Avenue SW Minot, ND 58701

Inquiry Number: 3344483.6

June 18, 2012

The EDR-City Directory Image Report



TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING. WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2012	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
2005	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1999	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1993	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1987	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1981	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1975	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1969	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1963	V	V	Polk's City Directory

RECORD SOURCES

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

FINDINGS

TARGET PROPERTY STREET

1st Street SW/3rd Avenue SW Minot, ND 58701

<u>Year</u>	CD Image	<u>Source</u>
1st St SW		
2012	pg A1	Polk's City Directory
2005	pg A2	Polk's City Directory
1999	pg A3	Polk's City Directory
1993	pg A4	Polk's City Directory
1987	pg A5	Polk's City Directory
1981	pg A6	Polk's City Directory
1975	pg A7	Polk's City Directory
1975	pg A8	Polk's City Directory
1969	pg A9	Polk's City Directory
1963	pg A10	Polk's City Directory

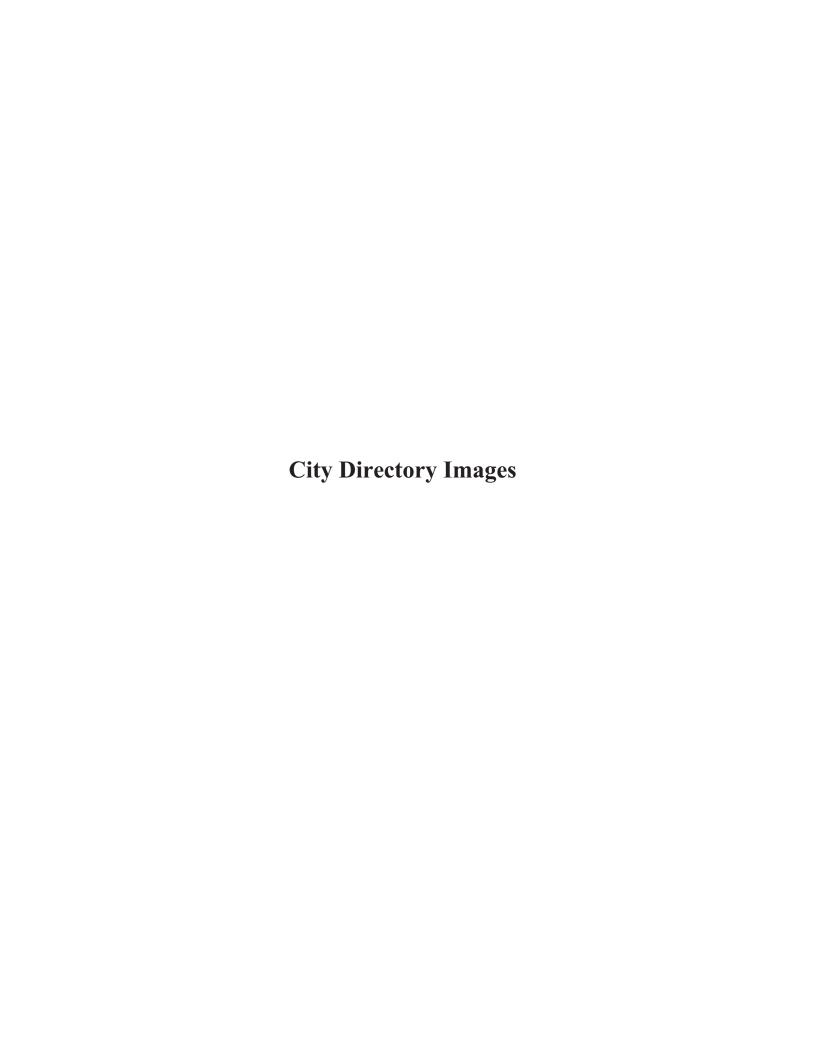
3344483-6 Page 2

FINDINGS

CROSS STREETS

<u>Year</u>	CD Image	<u>Source</u>
3rd Ave SW		
2012	pg. A11	Polk's City Directory
2005	pg. A12	Polk's City Directory
1999	pg. A13	Polk's City Directory
1993	pg. A14	Polk's City Directory
1987	pg. A15	Polk's City Directory
1981	pg. A16	Polk's City Directory
1975	pg. A17	Polk's City Directory
1969	pg. A18	Polk's City Directory
1963	pg. A19	Polk's City Directory

3344483-6 Page 3



BUSINESSES 14	HOUSEHOLDS 176
1ST ST SW (MINOT) • ZIP CODE 58701 CAR-RT C001 2 TOM'S COIN STAMP GEM BASEBALL C	
6 RAYMOND JAMES financial advisory sen Rothchild David G & June 9 10 JAMIE HAALAND optometrists od 1 Heinl Sayuri	v701-839-4288 701-839-4288 701-839-5000
3 Merck Charles D 22	701-839-1480
C VISION SOURCE optometrists od 20 BREMER BANK banks	701-852-3361 ecurities701-857-6223 701-857-6240
201 LEGAL SERVICES OF NORTH DAI	
250 VILLAGE FAMILY SVC CTR marria	701-852-3870
100 HONORABLE BRUCE M VAN SICKLE	701-852-3328
US FIRE MANAGEMENT OFFICE gove	ernment offices-us
B1 CNV SERVICE CO serv	701-839-5727 nment offices-us
116 CONKLIN JULIE dental hygienists FAMILY DENTAL CLINIC dentists FERRELL TRANSPORT trucking MERIT CARE HEALTH CARE ACCES	701-839-1299 701-839-1299 701-852-1036 physicians & surgeons
PAMERIPRISE FINANCIAL financial a	701-839-1299 dvisory serv
D COPPERHEAD CORP oil land lease E FERRELL NORTH AMERICA WHOL bulk E Hirst Stanley B 14 F PROCONTROLS MIDWEST controls	gas- liquefied petro-bttld/ 701-857-6088
123 2 Prough Peggy 5 4 Billings David A 12 • ZIP CODE 58701 CAR-RT C004 1111 © Huey Aldon	701-839-9276
Huey Jamie 1115 Woods Corey J ■	
1110 Doobler Dishard 1 20 A	701-929-0200

2005

1ST ST SW Cont'd
4 TALEBDOOST FARZIN MD physicians & surgeons
701-858-6700
8 UNIVERSITY-ND SCHOOL OF MED schools
2ND AVE CW INTERCEDED
+ 2ND AVE SW INTERSECTS
214 Callina Paul A & Robin M 14
215 MINOT HIGH SCHL CENTRAL CAMPUS schools
218 ZION LUTHERAN CHURCH churches701-852-1872
+ 3RD AVE SW INTERSECTS
+ 5TH AVE SW INTERSECTS
+ 7TH AVE SW INTERSECTS
+ 7TH AVE SW INTERSECTS
+ 11TH AVE SW CONTINUES
• ZIP CODE 58701 CAR-RT C035
1111 Haugen Meny L. T.
1111 Haugen Mary L 44701-838-1442
1115 Marten Bruce G 11701-852-3515
Marten Joey701-852-3515
1119 Poehler Richard J 34701-838-9290
1101 Copper laura 10

1999

1ST ST SW (M) cont'd
F BUMMER BARRY M ofcs hith prnrs
123 DIRECTEL busn svcs 857-6000
FAMILY PHARMACY drug store 852-4477
JOHNSON CAROLE phys 857-5753
Wkuster Charleen 839-2996
Martinsen Wayne 857-5753
Mattson Steven R 4
MINOT CENTER FOR FAMILY
MEDICINE medical clinic 858-6700
MINOT REGIONAL CHILD SUPPORT
ENFORCEMENT indvdl family svcs
N R P TELEPHONE ANSWERING
SERVICE busn svcs
TRINITY MENTAL HEALTH SERVICES
spty otpnt clns857-5994
U N D SCHOOL OF MED & HLTH
SCIENCES N W CAMPUS 959 6774
SCIENCES N W CAMPUS .858-6774 Widman Lawrence
2 MIRROR MIRROR SKIN & HAIR
CARE beauty shops852-6113
2 SAMARITAN CENTER THE indvdl
And the state of t
701 ERICKSON DAVID acct 857-5998
801 GENTILE JOHN C dentist 838-1113
801 N W AREA HEALTH EDUCATION
OFMITTED "
+ 2ND AVE SW INTERSECTS
201 Nostdahl James E 852-0381
217 Diamas Valle 1 🔯
218 ZION LUTHERAN CHURCH religious
+ 3RD AVE SW INTERSECTS
+ BURDICK EXPY W INTERSECTS
+ 5TH AVE SW INTERSECTS
+7TH AVE SW INTERSECTS
+ BEACON ST ENDS
+ 11TH AVE SW CONTINUES
ZIP CODE 58701 CAR-RT C021
1111 Not Verified

Polk's City Directory

1st St SW

1993

1ST ST SW-Contd		• 4TH AV SW INTERSECTS 404 TRINITY MEDICAL CENTER
Suites	ASSOCIATES C P A	• 5TH AV S W INTERSECTS
852-2002		
255 NEW YORK L	IFE INSURANCE CO ins-	• 11TH AV SW INTERSECTS
other fin serv	TRICK TAX SERVICE	1111 Hauston Mary 1 9 + @ 838,1442
852-6274		1115 Davis Terry M & Tamae E 2 852-5338
20 FIRST AMERICAN		1119 Poehler Bessie A 🗐 + 🎯 838-9290 Poehler Richd J 838-9290
• 1ST AV SW INTE		1121 Sailer Brian L & Janell M 2 839-6317
100 U S FEDERAL B	UILDING 839-4155	1201 Ryba Clarence M 💆 © 838-5890
Rooms	SERVICES ADMN	1203 Buee Esther E 2 838-9459 1207 Tudahl Brady L & Brenda I. 2
839-4155	SERVICES ADMIN	839-3294
103 U S INTERI	OR DEPT (FISH &	1211-1215 Vacant (2 Hses)
WILDLIFE S	ERV) 852-0318 ILTH & HUMAN SERVS	• 13TH AV SW INTERSECTS 1301 Fraley Floyd R & Virginia P 9+
(SOCL SECU	RITY ADMN) 852-3191	839-2642
105 U S CONGR	ESS (SENATE) 852-0703	1302★Peterson Marlys E 839-2318
109 Vacant		Peterson Eugene 839-2318 1304 Schneider Lisa A 2 838-1903
111 STORAGE 201 U.S. PROBA	TION OFFICE 839-7960	Jundt Mark A 838-1903
204 U S FEDER	AL BUREAU OF	1304½★Myers Mike 838-6914
	TION (RES AGT)	Lemon Lori 838-6914 1306 JUNDT'S FULL SERVICE (STGE)
852-5071 205 U S DIST C	T (REPORTER)	1311 Borud John A & Charlotte V 9+ ⊚
212 U S DISTRI	CT COURT	838-0079
213 U S DIST C	OURT (LIBRARY)	1314 NORTHWESTERN ELECTRIC INC elec contract 852-0324
214 U S JURY I	LIBRARY (ADDL SP)	1319 Schmaltz Leo M & Yvonne F 9+ ⊚
217 U S DIST C	T (CLK) 839-6251	830.5316
219 U S MAGIS		1331 Martin Warren W & Bonita E 9+ ⊚ 838-3455
220 U S MARSH	IAL (ADDL SPACE)	1335 Kallias Larry J 9+ @ 839-5212
302 U S DEPT	OF ENVIRONMENTAL	1341 Clott Jerald M & Joan M DT
HLTH 852-0)250	838-8116 • 14TH AV SW INTERSECTS
304 Vacant	NAL REVENUE SERVICE	1 101★Christie Charles 838-1869
(OFC)	THE RESERVE OF THE PARTY OF THE	1405 Vacant SOUTHWOOD CONDOMINIUM 839-1290
319 Vacant	UPD	1411 Anderson Lillie 9 + @ 839-1659
STREET CONTIN	UED	1413 Flder Olga W 91T @ 852-5450
A HEALTH CA	RE ACCESSORIES INC	1415 Holbach Bertha 9 + @ 839-2458 1417 Lindell Alan L 2 839-4800
med equip 8	52-4110	1410 Waishaar Albert & Ruby 9 838-7194
planning cor	ICIAL SERVICES INC fin islts 838-5322	1421 Ross Scott T 2 @ 838-6384
LAW OFCS OF	LAMONT SKOWRONEK	1423 Henderson Verna M 2 @ 838-5112 1425 Holman Olga E 9 + @ 838-3173
& DOBROVOL	NY 852-7002 AL CLINIC 839-1299	1427 Ostdahl Teri L 2 @ 839-0841
123 Vacant	AL CENTO GOS LESO	Johnson Larry W 839-0841
Vacant		1429 Akerlind Jennie 9+ © 839-8010 1431 Brockey Irene 5 © 839-1304
Vacant Rooms		1433 Haas Julius & Marion M 9+ ⊗
300 Vacant		839-1290 1435 Pilch Jay & Delores 2 @ 839-2373
304 Vacant		1435 Prich Jay & Delores & San
305 Vacant 307 Vacant		050 4260
308 Vacant		1439 Leier Karen A 2 @ 852-4730
400 Vacant		Leier Karen A 852-4730 1441 Killmer Earl G 2 @ 838-6489
406 Vacant 408 Vacant		1443 Grantier Edw A & Eliz M 9+ ⊗
412-417 Vacan	t (2 Businesses)	852-6388
417 Vacant		1445 Murphy Nancy A 2 © 839 1543 1447 Johnson Violet L 9 + © 838 1763
419 Vacant	t (2 Businesses)	1449 Dixon Gladys Y 9+ ⊚ 852-2748
503-510 Vacar	t (2 Businesses)	1451 Not Verified
510 Vacant		1453 Spear Viola S
507 Vacant	it (6 Businesses)	1457 Kenner Jeanine K 🗷 🕲 839-1238
604 Vacant		Crandall David W 839-7235
604 Vacant		1461 Bloms Florence C 9 T @ 838-3885
606 Vacant 608-712 Vacan	nt (5 Businesses)	Plome Irene M 500:0000
712 Vacant		1463 Przymus Alex M & Jeanne F 6 9
800 Vacant		838-6436 1465 Johnson Ralph M & Clara A 3 ®
604 Vacant 606 Vacant 608-712 Vacant 712 Vacant 800 Vacant 804 Vacant 804-123 Vaca STREET CONT 200 BRAY'S CLE INC 852-616 218 ZION LUTHE 3D AV SW II 300 TRINITY HO 857-5000 314 TRINITY SE	nt (2 Businesses)	838-0788
STREET CONT	INÙED	1515 Not Verified 1517 Sorensen John W 4 @ 839-0105
		5 1519 Vacant
200 BRAV'S CLE	ANERS & MINOT LAUNDRY	1505 Not Varified
INC 852-616	1	1529 Sprenger Ludwig & Margie R
218 ZION LUTHE	RAN CHURCH 852-1872	838-7965 1535 Howery Dort D & Doris A 🖭 + 🕲
• 3D AV SW II	ME & HOSPICE HEALTH	069 0403
300 TRINITY HO 857-5000		1541 Sowitch Frank J & Linda L 9+ @
00.000	RVICES BUILDING	838-0420

MIDWEST FED SAV BLDG—Contd	4TH AV SW INTERSECTS
305 Midwest Federal (Addl Space)	404 Trinity Medical Center (School Of
307 Midwest Federal (Addl Sp)	Nursing) 857-5000
308 Midwest Federal (Addl Sp Rms 308-317)	5TH AV S W INTERSECTS
400 Northern Plains Life Insurance Co	9
852-0555	11TH AV SW INTERSECTS
400 Blue Cross Blue Shield Of North	1111 Haugen Mary L ⊚ 838-1442
Dakota 852-0555	1115 Bernhard Newton E ⊚ 838-1025
406 Midwest Federal (Addl Sp)	1119 Poehler Bessie A Mrs © 838-9290
408 Midwest Federal (Addl Sp)	1121★Oilund Roberta 838-5220
412 Midwest Federal (Addl Space)	1201 No Return
416 Baukol-Noonan Inc coal dirs whol	1203★Walker Brian P ⊚ 838-1868
852-2304	1207 Brown Carlise A 839-4900
417 Midwest Federal (Addl Sp) 419 Midwest Fed (Addl Sp)	1215 Ryba Clarence M © 838-5890
420 Midwest Federal (Addl Sp)	13TH AV SW INTERSECTS
500 Delores' Skyrise Salon 839-1550	1301 Fraley Floyd R © 839-2642
503 Slorby Robt J lwyr 852-5636	1302 Ensrude Eleanor 839-0428
506 Eaton Van De Streek & Ward lwyrs	1304 * Assugres Rose
852-4837	1304 1/2 *Bush Robt 852-1149
510 Heidorn Gunther H phys 852-3400	1306 Jundt's Full Service (Stge) 1311 Borud John A ⊚ 838-0079
507 Dobson Raymond C ofc 839-8507	1314 Northwestern Bleeric Inc elec contract
508 Vacant	8520824i
518 Midwest Insurance 852-6777	139 Schmaltz Leo M ⊚ 839-5316
514 Soo Line Railroad 852-3119	1331 Martin Warren W @ 838-3455
516 Christian Science Reading Room	1335 Kallias Larry J ⊚ 839-5212
839-1515	1341 Clott Jerald M ⊚ 838-8116
512 Kotana Communications Inc tel	14TH AV SW INTERSECTS
answering serv sls 838-1446	1401 Murphy John D
516 Vacant	1405 Vacant
600 Doeksen-Gross Insurance Agents	1411 Southwood Condominium 852-4919
852-1258	Anderson Lillie Mrs ◎ 839-1659
604 Midwest Federal (Ofc)	1413 Elder James © 852-5450
604 Midwest Fed (Ofc)	1415 Holbach Bertha @ 839-2458
606 Midwest Fed (Ofc)	1417 Lindell Allen L ⊚ 839-4800
608 Midwest Fed (Ofc)	1419★Weishaar Albert 838-7194
610 Anderson & Dobrovolny lwyrs	1421 Larson Mark F 852-5768
852-4105	1423 Meske Henry ⊚ 838-8050
612 Prudential Insurance Co Of America	1425 Holman Leo E ⊚ 838-3173
The 852-3819	1427 Peterson Bernice Ann ⊚ 839-3847
614 New York Life Insurance Co	1429 Akerlind Jennie © 839-8010
838-0773	1431 No Return
702 Orthopedic Surgery Associates phys	1433 Haas Julius
852-1208	1435 Finneseth Anna O Mrs © 839-2373
702 Keck Stanley W phys 838-8208	1437 Erickson Selma C Mrs ⊚ 838-5231
702 Peterson Myron D phys 838-8208	1439 Southwood Condominium
702 Uthus David M phys	Gordon Dorothy Mrs © 839-1025
712 Midwest Fed Sav & Loan Bldg	1441 Milbrath Geo H
(Ofc) 12	1443 Grantier Edw ⊚
800 Hair By George 00 838-2306	1445 Becker Beryl G 852-4919
804 Seiffert Garnet E dentist 852-3766	1447 Johnson Violet © 838-1763
804 Hoffman Marvin D dentist 852-5599	1449 Dixon Gladys © 852-2748
TREET CONTINUED	1451 Olson Geraldine © 839-4574
	1453 Spear Viola © 839-8758
5	1455 Keller Randal G ⊚ 838-1523
00 Brays Cleaners & Minot Laundry Inc	1457 Traube Frieda E © 852-0479
852-6161	1459 Kemp Irene N Mrs © 839-1688
18 Zion Lutheran Church 852-1872	1461 Bloms Florence C ⊚ 838-3885
3D AV SW INTERSECTS	1463 ★Przymus Alex M ⊚ 838-6436
00 Gate City Building 852-1371 Gate City Federal Savings Bank 852-1371	1465 Bloms Arnold M © 839-1857
114 Trinity Services Building	1515★Haiar Joseph P 838-7775 1517 Vacant
11 Times out vices Dunding	1011 vacant

1981

804 Hoffman Marvin D dentist STREET CONTINUED

5

202 Minot Laundry & Dry Cleaners Inc 852-6161

218 Zion Lutheran Church

852-1872

3D AV SW INTERSECTS

300 Gate City Building Gate City Savings & Loan Assn 852-1371

314 Vacant

4TH AV SW INTERSECTS

404 Trinity Medical Center School
Of Nursing 857-5000
5TH AV S W INTERSECTS

.

11TH AV SW INTERSECTS 1111 Haugen Kenneth L ©

Polk's City Directory

1st St SW

1975

STREET CONTINUED

5

202 Minot Laundy & Dry Cleaners Inc 838-3420

218 Zion Lutheran Church 8838-5172

Wood Neil 839-2036
3D AV SW INTERSECTS
300 Gate City Building
Gate City Savings & Loan
Assn 838-1371

Mc Gee Hankla Backes & Wheeler Ltd lwyrs 839-2144 1st St SW

1975

1ST ST SW—Contd
314 Big Sky Ranch (Ofc) land co
838-1341
Fisher Motor Inc auto dlrs
838-1341
4TH AV SW INTERSECTS
404 Trinity Medical Center School
Of Nursing 838-4001
5TH AV S W INTERSECTS

11TH AV SW INTERSECTS
1111 Haugen Kenneth L ©
838-1442
1115 Bernhard Newton E ©
838-1025

Source
Polk's City Directory

1st St SW

1969

STREET CONTINUED

202 Minot Laundry & Dry Cleaners Inc 838-3420

218 Zion Lutheran Church 838-5172

Holen Clayton O 838-0964

3D AV SW INTERSECTS

300 Gate City Building Gate City Savings & Loan Assn 838-1371

> Mc Gee Van Sickle Hankla Backes & Wheeler lwyrs 839-2144

314 Big Sky Ranch (Ofc) land co 838-1341

> Fisher Motor Inc auto dlrs 838-1341

4TH AV SW INTERSECTS 404 Trinity Hospital School Of

Nursing 838-4001

420 Apartments

1 Dahl Minnie M 838-5861

2 Christianson Ragna

3 Kaiser Richd W 838-8715

4 Mikels John

5 Overturf Steven

5TH AV S W INTERSECTS

7

616 State Farm Mutual Claim Office 838-4919

1st St SW

1963

1ST AV SW-Contd 100 American State Bk Bldg-Contd Room 203-Contd Hardware Ins Agcy 834-5265 American Hdw Mut Ins Co TE4-5265 205 United Funds Inc stocks and bonds TE6-5236 Waddell & Reed Inc investment TE6-5236 207 Ward County Farm Bureau TE6-2208 Nodak Mutual Insurance TE6-2208 208 Vacant 209-11 Mar-Win Development Co oil TE4-7227 213 StPaul Fire & Marine Ins Co TE2-5110 StPaul Companies The ins TE2-5110 214 Pringle Herigstad Meschke Loder Mahoney & Purdy lwyrs 836-1191 Street continued 113 Gold Bond Gift Center TE6-2140 115 Woodmansee's Inc Business machs TE2-5215 117 Pantry The restr TE4-9243 119 Roosevelt Hotel Corp real est TE3-1141 Roosevelt Hotel TE3-1141 Jet Base Short-Way Inc. bus lines TE6-3209 121-23 Jamieson Co br stock brokers TE5-1111 Christian Science Reading Room 125 Town & Country Sewing Service TE4-9203 129 Gift House Stamps TE2-8192 11 2d SW intersects 200-20 Stearns Building Stearns Mtrs Inc garage TE2-8131

Stearns Investment Co TE2-8131 Stearns James W TE4-2120 Stearns Music Co coin operated mach TE4-2120 Hummel's Bee Line auto repr TE8-3204 Northwestern Bell Telephone Co (constn dept) Western Union Teleg Co mtce dept TE8-1223 Allen Electric contr Thorsrud Martin TE2-5115 Dix Distributing Co TE8-6520 Montgomery Ward & Co (auto serv) TE4-1121 Young Florence J Mrs TE2-4183 Eddie's Sales and Leasing trucks Rostad Lillian Mrs TE5-4209 3d SW intersects 302 Vacant 314 Vacant 317 Vacant 321 Vacant 323 Vacant 4th SW intersects Park av intersects 400 Great Northern Ry Co (pass sta) TE2-1121 406 R E A Express TE4-1149 5th and 6th SW intersects 701 Brenden Benj @ TE6-2202 809 Clifford Theo P @ TE7-4230 816 Smestad Dale L @ TE6-5102 820 Allen Wm H @ TE2-3196 821 Raberge Allan C @ 837-6184 824 Schreiner Ralph I @ 833-0109 825 Issel Carl J @ TE6-4109 13 901 Nichols James R @

3RD	AVE SW (MINOT)-FROM 301 15TH ST SW WEST
+ 3F	RD ST SE INTERSECTS
+ M.	AIN ST S CONTINUES
· ZII	P CODE 58701 CAR-RT C001
13	102 Schaan Anna M 29701-839-8781
	104 O Jones Arthur
	104 Negaard Barbara 6
	202 Lapre Kathleen A 2
	204 Kreis Robert M 14701-838-8526
	207 Kantrude Todd A
	304 Bennett Sean L 2701-858-0868
	306 Weidert William J [1]
	306 Weidert Dannie
	307 Ø Jones Brenda J
	308 © Nagel Steven
	402 Graham Betty M 17
	406 Hagen Keith A 9
21	THOMPSON-LARSON FUNERAL HOME funeral directors
604	701-852-3446
701	JUN HONG J MD physicians & surgeons701-857-7954
	PHILLIPS CHRISTOPHER MD physicians & surgeons
	701-857-7954
	STRAND GINGER physicians assistants701-857-5764
	STRIHA DESIREE A nurses- practitioners701-857-7954
	TRINITY HEALTH CTR MED ARTS physicians & surgeons
	701-857-7954
	VERHASSELT DONNA E physicians assistants701-857-7954
	101 ORTHOPEDIC ASSOCIATES physicians & surgeons
	701-857-5500
	201 TRINITY MEDICAL GROUP physicians & surgeons
	202 Trotter Lee 5
	203 EAR NOSE & THROAT CTR physicians & surgeons
	701-857-5986
	203 KLEIN SHEILA audiologists701-857-5986
	203 MAXSON JERRICA audiologists701-857-5986
	203 MILLER TODD C MD physicians & surgeons
	204 TRINITY HOSPITAL physicians & surgeons701-857-3133
+5	BROADWAY INTERSECTS
· ZII	P CODE 58701 CAR-RT C013
201	3 Hawkins Joshua D 2
	3 Hawkins Angela
	4 @ Jewell Carl
	600

2005

3rd Ave SW

3RD AVE SW (MINOT)-FROM 301 15TH ST SW WEST			
+ 3RD AVE SE INTERSECTS			
+ MAIN ST S CONTINUES			
• ZIP CODE 58701 CAR-RT C001			
13 Negaard Amanda			
102 Schaan Anna M 24701-839-8781			
105 Smith Christina L701-837-9573			
201 Roll Pauline K 29701-838-2341			
204 Kreis Robert M 9701-838-8526			
208 © Romans Amber D701-839-9100			
302 Eckert Estelle G 7701-838-9502			
305 Gullickson Judith G [12]			
401 Becker Allen D701-838-5018			
402 Graham Betty M 12701-838-5109			
406 Hagen Keith A 3701-838-5691			
21 THOMPSON-LARSON FUNERAL HOME funeral			
directors701-852-3446			
+ 1ST ST SW INTERSECTS			
+ 1ST ST SW CONTINUES			
101 Myers Jennifer S & Matthew D 4701-837-9899			
101 @ Mattern Dawn			
101 ORTHOPEDIC ASSOCIATES physicians &			
surgeons701-857-5500			
201 DORMONT RICHARD MD physicians & surgeons			
201 MOILAN MELISSA MD physicians & surgeons			
201 PETERSON DIANA MD physicians & surgeons			
202 COLON MANUEL MD physicians & surgeons			
202 ELFAR AYMAN MD physicians & surgeons			
202 KOURA AAYAN MD physicians & surgeons			
202 LEO LANE M DO physicians & surgeons			
701-857-5764			
202 SHIPLEY FRANK MD physicians & surgeons			
701-857-5764			
202 TRINITY HEALTH CTR hearing impaired equip/			
supl701-857-5562			
202 TRINITY PAIN MANAGEMENT physicians &			
surgeons701-857-5150			
202 W Williams Tyson701-857-3584			
203 LOVE JR JAMES T MD physicians & surgeons			
701-857-5986			
204 TRINITY MEDICAL GROUP physicians &			
surgeons			
109 Thorson Jay M & Debra 19701-838-8194			
+ 2ND ST SE INTERSECTS			
+ 2ND ST SE CONTINUES			
• ZIP CODE 58701 CAR-RT C013			
201 Olson Barbara A [15]			
2 Ehlers Becky J 2701-838-5974			
2 Emoro Doony 0 E 1111111111111111111111111111111111			

	3rd Ave SW 1999
2	
8	3RD AVE SW (MINOT)-FROM 299 MAIN ST
14	S WEST
	+ 3RD AVE SE BEGINS
13	· ZIP CODE 58701 CAR-RT C001
	13@Klimple Helen M 838-5642
6	13 © Klimple Helen M
	101 Not Verified
17	102 Schaan Ann M ⑨+ ♠ 839-8781
	102 Schaan Jerome839-8781
7	103 Ohmart Helen K 4
	104 Adams Geneva E 2
9	201 Roll Pauline K 9+
'4	206 Zimmer Irene B [8] 839-5683
	206 Zimmer Irene B 🖲
	304 Larson Rebecca R 4
	304 Larson Rebecca R 4 305 Gullickson Judith G 5 838-3932
8	307 Clouse Helen R 🗓+ 🛦 839-1710
	308 Eckert Estelle G 9+ 838-9502
13	401-402 Not Verified (2 Apts)
5	401-402 Not Verified (2 Apts) 403 Lapre Kathleen A [2]
2	408@Dionne Robert
5	21 Burkart Wesley L 2
16	Fisher Grace J 9+
15	THOMPSON & LARSON FUNERAL
	HOME funerI svc crmtrie 852-3446
	+ 1ST ST SW INTERSECTS
	101@Allen Roger857-5413
	ARCE DENNIS phys857-5886
5	ODennis Martin F 957-5743
	@Dormont Richard E838-1040
	@Kneifel Thomas 857-5500
5	OLee Lane M857-5764
	MARTIN LARRY MS CCC-A ofcs hith
5	
	Prnrs
	ORTHOPEDIC SURGERY ASSOCIATE
6	PC medical clinic852-1208
	TRINITY WORK INJURY MANAGEMENT
	ofcs hlth prnrs
	201 Peterson Diana 857-5413
0	201 TRINITY MEDICAL CENTER
	medical clinic857-5413
	203 JAYAPATHY B phys 857-5986
0	109 Thorson Debra 9+ 838-8194
3	117 Varberg Bernard M 4
	+ S BROADWAY INTERSECTS
	· ZIP CODE 58701 CAR-RT C023
8	200 FIRST BAPTIST CHURCH religious orgs
9	852-4533
	7ID CODE 50704 CAR DT CO40

1993

408★Hagerty Patrick J 838-1224 STREET CONTINUED 21 THOMPSON-LARSON APARTMENTS 852-3446 1 Eckmann Myrtle 9+ 852-2252 2 Fisher Thos A & Grace 4 852-3446 4-5 Vacant (2 Apts) THOMPSON-LARSON FUNERAL HOME 852-3446 1ST ST SW INTERSECTS 115 TRINITY MEDICAL BUILDINGS 857-5082 117 ORTHOPEDIC SURGERY ASSOCIATES 852-1208 11 S BROADWAY INTERSECTS 201 VIRGINIA APARTMENTS 1 Olson Barbra A 2 852-2474 1 Olson Frank J 852-2474 2 Ringsaker Ronald 3 852-6635 2 Piper Carol A 852-6635 3 Dixon Lynette 2 4-5 Not Verified (3 Apts)

1987

3D AV SW-Contd 202 Anderson Valborg Mrs 838-8723 203 Vacant 204 Rauch Lillian M 839-5888 205 Griffin Eva Mrs 838-1653 206 Gever Peggy E 838-6650 207 Grothe Edwin O 839-0499 208 Johnson Christine S 839-2569 301 Anderson Dorothy B 839-7234 302 Ferguson Margt J 839-2087 303 Potter Lena M 838-9353 304★Everson Marion H 838-1197 305★Clouse Therecia ⊚ 852-8313 306 Escott Venita 839-2399 307 Clouse Helen R 839-1710 308 Eckert Estelle G 838-9502 401 Sorenson Doris 838-6824 402 Gimse Alford M 838-3522 403 Vacant 404 Crawford Harry E 839-3625 405 Vacant 406 Kessler 407 Vacant 408 Vacant STREET CONTINUED 21 Thompson-Larson Apartments 852-3446 1 Eckmann Myrtle Mrs 852-2252 2 King Marie C Mrs 838-1725 3 Thompson-Larson Funeral Home (Ofc) 852-3446 4 Vacant 5 Burkart Wesley 838-1091 Thompson-Larson Funeral Home 852-3446 1ST ST SW INTERSECTS 115 Vacant 11 2D ST SW INTERSECTS 201 Virginia Apartments 1★Gipson Brenda K 2 Lewis Marjorie B 838-5828 3★Benjamin Marcella L 4 Ringdahl 4a★Juve Leon A 5★Mc Kinzie Kristine M 6*Altringer Le Ann 7★Stropper Debbie A 8 Simonson Sellmer 839-2446 9*Christenson Darlene

301 Vandenoever Enid 838-6780

302 Welk Mike B 838-7663

1981

303 Schwartz Henry

304 No Return

STREET CONTINUED

13 Thompson Apartments

101★Moyle A

102★Everson Marian H 838-1197

103 Mc Martin Jean D 839-5040

104 Johnson Hester 839-1901

105 Vacant

201 Roll Pauline Mrs 838-2341

202 Anderson Valborg Mrs

203★Armer Ilene K

204 Rauch Lillian 839-5888

205 Griffin Eva Mrs 838-1653

206 Norby Alma Mrs 839-6501

207 Thompson May Mrs 839-8443

208 Johnson Christine S 839-2569

301 Sommerness Phyllis A 839-3316

302★Ferguson Margt J 839-2087

303 Potter Lena M 838-9353

304 Vedvig Anna 838-6098

305 Haugen Ida 839-7055 306 Oiseth Ragna A Mrs

839-4773

307 Clouse Helen 839-1710

308 Eckert Estelle G 838-9502

401 Unruh Edith Mrs 838-2664

402★Gimse Alford 838-3522

403 Armstrong Agnes 839-7496

404 Vacant

405 Vacant

406 No Return

407 Erickstein Dorothy P Mrs 838-6856

408 Adams Mabel J Mrs 838-1454

STREET CONTINUED

21 Thompson-Larson Apartments

1 Eckmann Myrtle Mrs 839-2252

2 King Marie C Mrs 838-1725

3 Vacant

4 Vacant

5 Foster Dorothy E Mrs 838-3766

Thompson-Larson Funeral Home 852-3446

1ST ST SW INTERSECTS

115 Porter Motors car sls 852-1111

40

3D AV SE-Contd

Burner John ⊚ 839-2439

1810 Beemer Orville J ◎ 838-2329

1814 Mc Laughlin Patk H © 839-1711

1815 Gades Edwin M @ 839-5104

5

3D AV SW —FROM MAIN ST WEST 3 SOUTH OF CENTRAL AV

ZIP CODE 58701 10 Garrison Building Urban Renewal Agency 839-7767

Bsmt Vacant

Involved Inc 838-7895

11 Thomas Apartments

101 * Carlson Arliegh Mrs 839-2270

102 Vacant

103 * Ensrude Eleanore Mrs 839-3482

201 * Bray D R

202 * Miller Gordon N 838-1755

203 Christenson Ragna 838-8423

204 * Feller Cath 839-6339

301 No Return

302 No Return

303 Scholl Ella Mrs 839-3401

304 Vacant

STREET CONTINUED

13 Thompson Apartments

101 Bauer Lydia Mrs 839-3722

102 Bartholomew Jessie 838-4987

103 Mc Martin Jean D 839-5040

104 Johnson Hester 839-1901

105 Coffey Theda G Mrs

201 Aurland Margt 838-1627

202 Anderson Valborg Mrs 838-8723

203 Hallan Margrethe Mrs 838-0965

204 Kemp Irene N Mrs 839-1688

205 Griffin Eva Mrs 838-1653

206 De Mots Edw G 838-8923

207 Lang Johanna Mrs 839-4713

208 Norby Alma Mrs 839-6501

301 Sommerness Phyllis 839-3316

302 Bakeman Ruth A Mrs 838-2798

303 Potter Lena M 838-9353

304 Vedvig Anna 838-6098

1975

305 Barker Ann Mrs 838-2688

306 Oiseth Ragna A Mrs 839-4773

307 Clouse Helen 839-1710

308 Lindgren Bernice O Mrs 839-2084

401 Unruh Edith Mrs 838-2664

402 Ferguson Margt J Mrs 839-2087

403 Eckert Estelle G 838-9502

404 Gimse Alford M 838-3522

405 Strand Rose Mrs 838-4300

406 * Helgeson Pearl Mrs 839-3941

407 Roll Pauline K Mrs 838-2341

408 Hertel Marie Mrs 838-2543

STREET CONTINUED

21 Thompson-Larson Apartments

1 Eckmann Myrtle Mrs 839-2252

2 King Marie C Mrs 838-1725

3 * Rauch Lillian M 839-5888

4 Vacant

5 Moger Clara Mrs 838-2544 Thompson-Larson Funeral Home 838-3846

1ST ST SW INTERSECTS

115 Fisher Mtr Inc (Body Shop) 838-1341

11

2D ST SW INTERSECTS

201 Virginia Apartments

1 Vacant

2 Lewis Elsie M Mrs 838-5828

3 Killmer Anne 838-5365

4 * Kensley James

5 Harchanko John A orthodonist 838-2746

6 Rowe Albert

7 * Keeton Helen

8 Simonson Arth 839-2446

9 Hoffer Lydia Mrs

10 * Hogeland Lonnie

11 Lovely Helen I Mrs 838-8944

12 * Warner Steven 839-1497

13 Hamilton Alice Mrs 838-4473

14 Manning Edw C 8/39-6526

208 Sweetheart Budget Bakery

221 Western Auto Parts (Stge)

300 Western Auto Parts Co

838-1381

1969

838-2058

STREET CONTINUED

- 21 Thompson-Larson
 - Apartments
 - 1 Fisher Edw 839-1552
 - 2 King Marie C Mrs 838-1725
 - 3 Vacant
 - 4 Vacant
 - 5 Moger Clara Mrs 838-2544 Thompson-Larson Funeral Home 838-3846
 - 1ST ST SW INTERSECTS
- 112 Vacant
- 115 Fisher Mtr Inc (Body Shop) 838-1341
- 116 City Barber Shop 839-2453
- 118 City Beauty Shop 838-9242 Elvestad Lola M Mrs 838-0452

11

2D ST SW INTERSECTS

- 201 Virginia Apartments
 - 1 Vacant
 - 2 Lewis Elsie M Mrs 838-5828
 - 3 Killmer Ann

3D AV SW-Contd 15 Thompson Apts-Contd

301 Hartl Frank J © TE3-3210

302 Halverson Adolph E TE3-0152

303 Potter Lena M TE3-6153

304 Jorde Ida Mrs TE5-2064

305 Goodwin Patricia L TE5-7231

306 Oiseth Ragna A Mrs

TE6-2173 307 Lewis Betty A TE4-9140

308 Lindgren Bernice O Mrs TE4-7284

401 Haga Virgil D TE3-8135

402 Ferguson Cecil P

TE4-7287 403 Eckert Estelle G

TE3-7102

404 Buskrud Clara TE3-3262

405 Olander Alice E Mrs TE2-8158

406 Madsen Cristanza Mrs

TE3-3294

407 Roll Pauline TE2-9141 408 Justice Bertha S Mrs

Street continued

21 Thompson-Larson Apts

TE2-7146

Thompson-Larson Funeral Home TE2-7146

TE6-2283

Apartments:

1 Fisher Edw @ TE4-5152

2 King Marie Mrs TE2-3125

3 Fisher Thos A TE8-4602

5 Moger Clara Mrs TE3-0144

1st SW intersects

112 Family Service Store used

clo

114 Woelber Marie Mrs Service Cafe TE4-8110

115 Fisher Mtr Co body

shop

116 City Barber Shop TE4-9153

118 City Beauty Shop TE3-5242 Elvestad Lola M Mrs

TE3-9152

11

2d SW intersects

201 Virginia Apartments

1963

Apartments:

2 Lewis Dorothy TE2-7195

3 Sprague Eleanor Mrs TE8-6556

4 Zoellr

4 Zoeller John G 838-6562

4A George Kidwell TE7-0225

5 Harchanko John A dentist TE8-5121

6 Johnson Verna Mrs

TE7-0116

7 StAubin Eveline Mrs TE8-5945

8 Simonson Lillie Mrs TE4-9146

9 Vacant

10 Preston Geo TE7-4218

11 Lovely Helen I Mrs TE3-5144

12 Borders Marvin R TE8-4176

13 No Return

14 Manning Edw C TE7-4126

Street continued

300 Western Auto Parts Co

TE2-1181

3d SW intersects

307 DeLorme Nancy Mrs

rear Hartsfield Ray R

309 Lee Frank

320 KLPM (Minot Broadcasting

Co Inc) TE4-1146

4th SW intersects

Park SW intersects

416 State Natl Guard Battalion

Hq TE6-2222

State Natl Guard Co B 164th Engineers

Battalion

Minot Armory TE5-9275

State National Guard & Headquarters Co B

164th Engineers

Battalion

TE6-2222

418 Veterans Memorial Build-

ing

Minot Post No 753

(VFW) TE6-6222

Drivers License Bureau

TE6-6222

Minot Site 1

1st Street SW/3rd Avenue SW Minot, ND 58701

Inquiry Number: 3344483.3

June 14, 2012

Certified Sanborn® Map Report



Certified Sanborn® Map Report

6/14/12

Site Name: Client Name:

Minot Site 1 TriMedia
1st Street SW/3rd Avenue SW 1002 Harbor Hills Drive
Minot, ND 58701 Marguette, MI 49855

EDR Inquiry # 3344483.3 Contact: Derek Senn



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by TriMedia were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Minot Site 1

Address: 1st Street SW/3rd Avenue SW

City, State, Zip: Minot, ND 58701

Cross Street:

P.O. # Minot ND
Project: Minot Phase I s
Certification # 99CE-451F-9969

Maps Provided:

1952	1907
1945	1904
1932	
1926	
1918	
1913	



Sanborn® Library search results Certification # 99CE-451F-9969

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

University Publications of America

✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

TriMedia (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

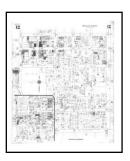
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1952 Source Sheets



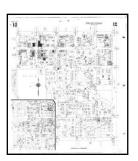


Volume 1, Sheet 2

Volume 1, Sheet 12

1945 Source Sheets





Volume 1, Sheet 2

Volume 1, Sheet 12

1932 Source Sheets



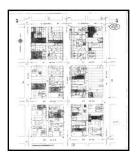


Volume 1, Sheet 2

Volume 1, Sheet 12

1926 Source Sheets







Volume 1, Sheet 4

Volume 1, Sheet 5

Volume 1, Sheet 21

1918 Source Sheets



Volume 1, Sheet 11



Volume 1, Sheet 12



Volume 1, Sheet 17

1913 Source Sheets



Volume 1, Sheet 9



Volume 1, Sheet 10



Volume 1, Sheet 12



Volume 1, Sheet 13

1907 Source Sheets

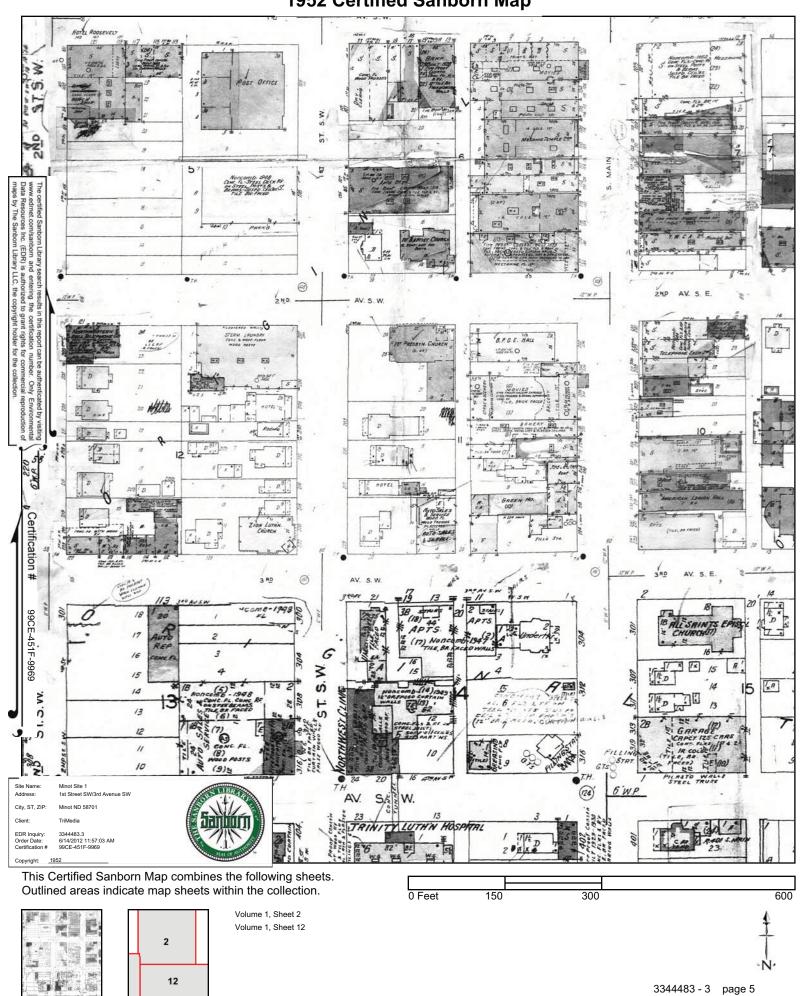


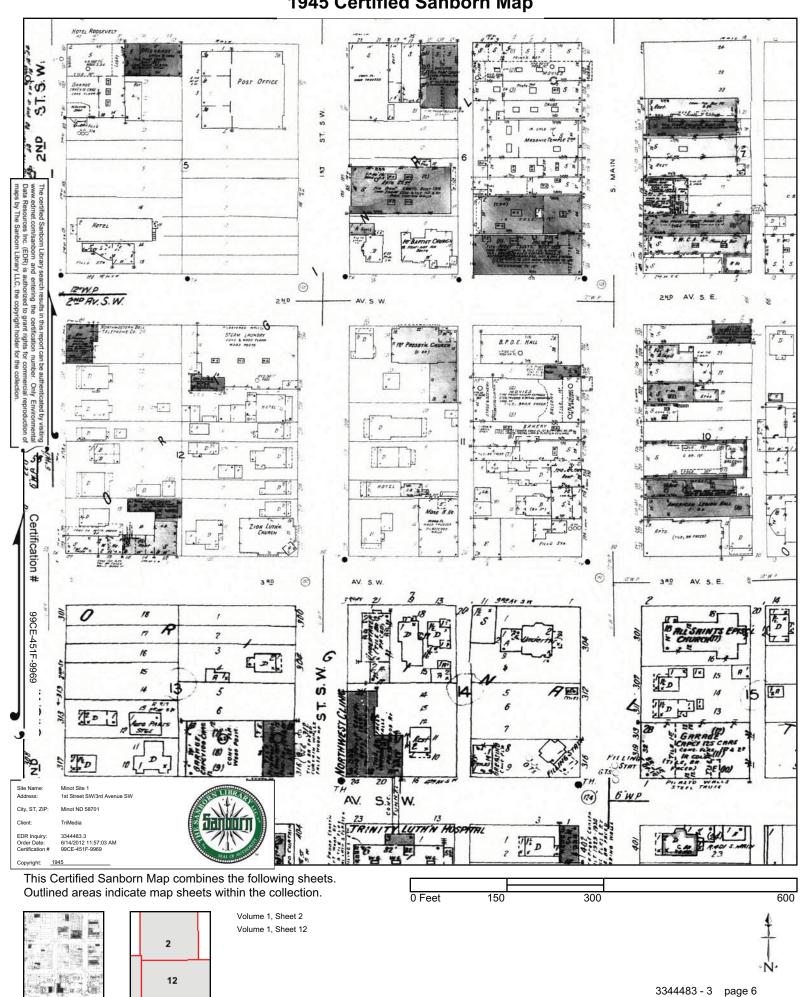
Volume 1, Sheet 4

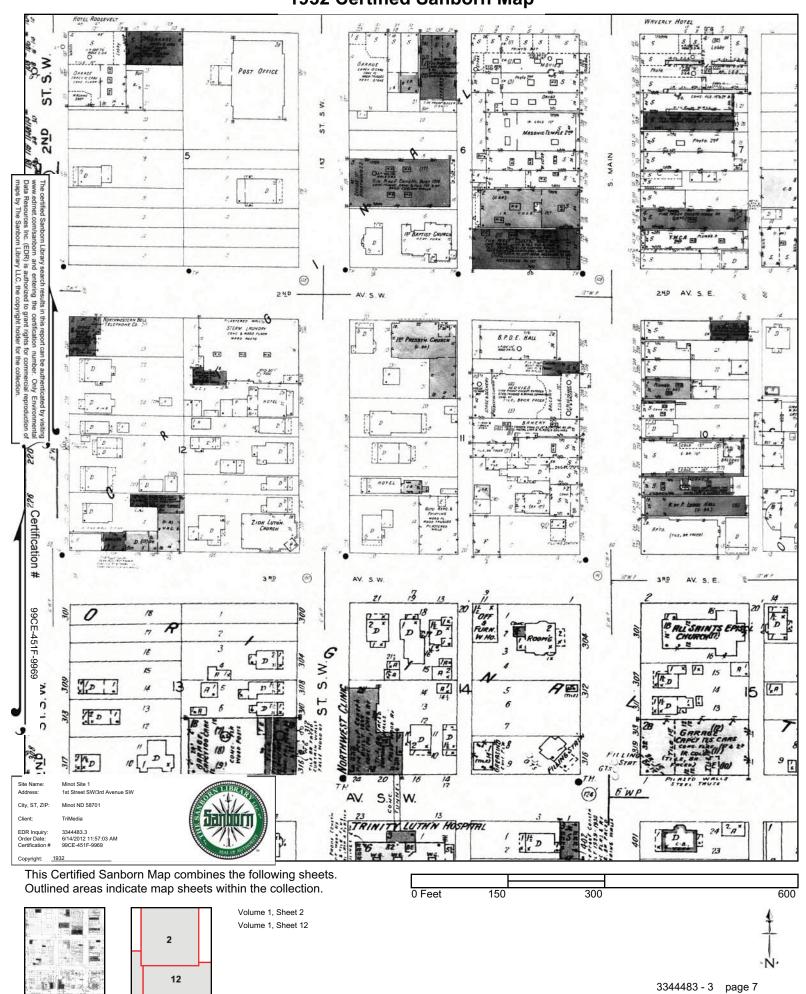
1904 Source Sheets

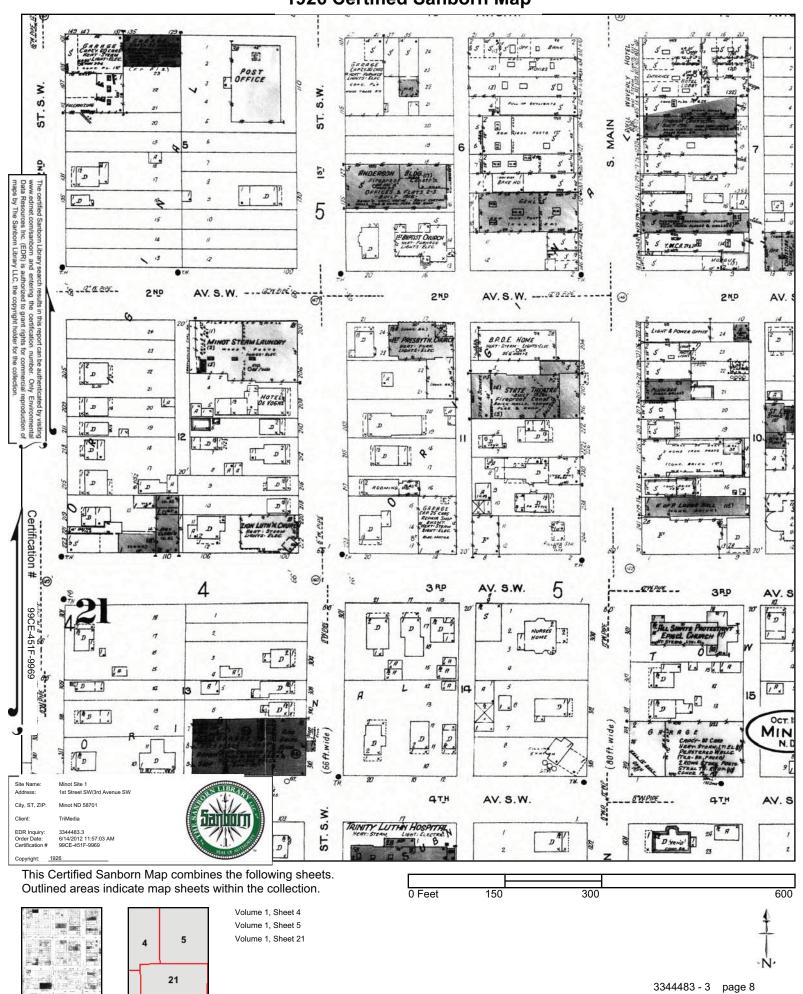


Volume 1, Sheet 2



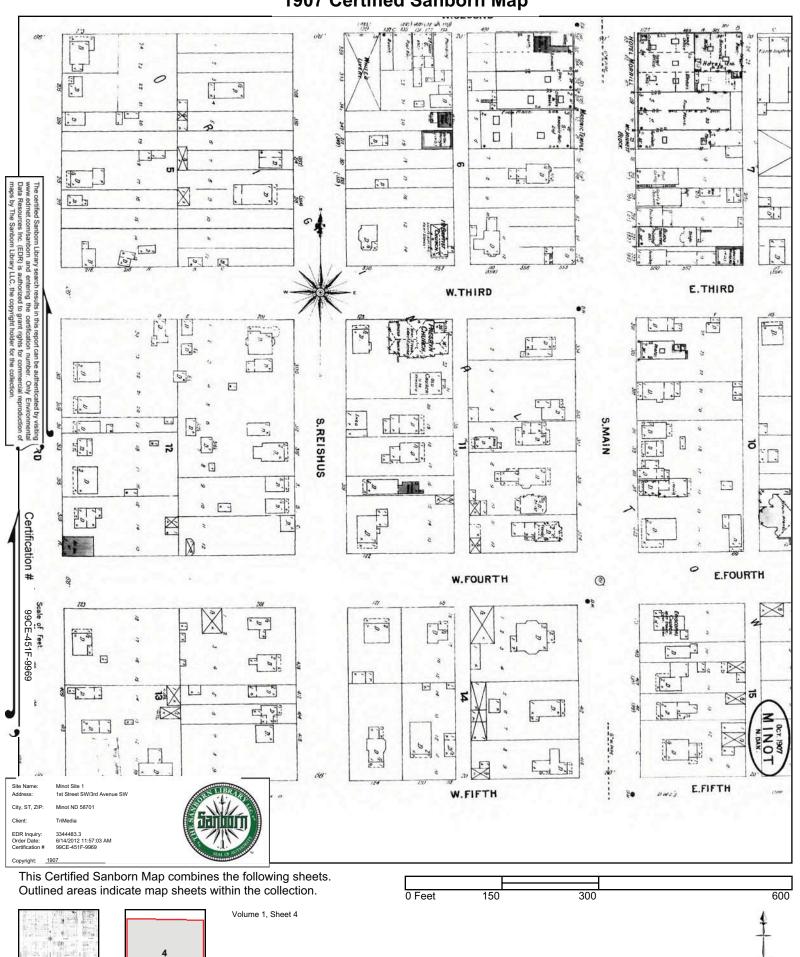




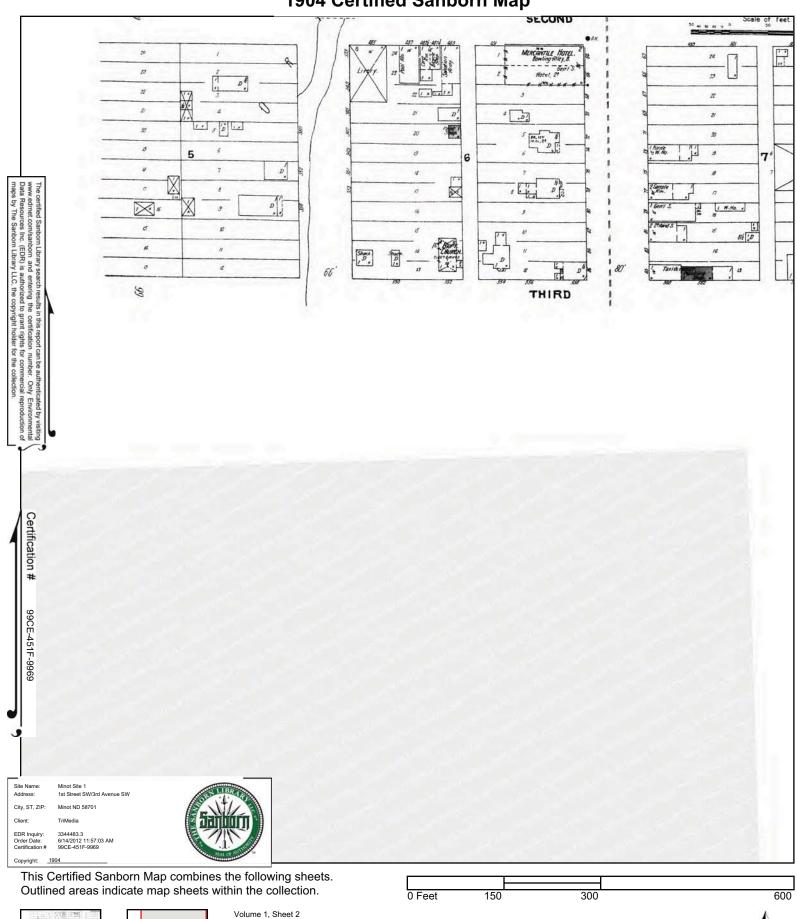






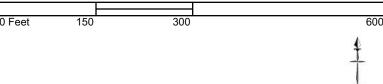


3344483 - 3 page 11









Phase I Environmental Site Assessment

5 Central Avenue West Minot, ND 58701

Prepared for:
City of Minot
512 2nd Avenue SW
Minot, ND 58702

Date: August 6, 2012

TriMedia Project Number 2012-102

<u>G:\Projects\2012\2012-102 Cypress Development - Minot Phase I ESAs\Reports\Site 2\Site 2 - Phase I ESA FINAL.doc</u>



Phase I Environmental Site Assessment Table of Contents

1.0	Sum	mary	1
2.0	Intro	duction	1
	2.1	Purpose	1
	2.2	Detailed Scope of Services	4
	2.3	Significant Assumptions	4
	2.4	Limitations and Exceptions	4
	2.5	Special Terms and Conditions	4
	2.6	User Reliance	4
3.0	Site	Description	5
	3.1	Location and Legal Description	5
	3.2	Site and Vicinity General Characteristics	5
	3.3	Current Use of the Property	5
	3.4	Structures, Roads, & Other Onsite Improvements	5
	3.5	Current Uses of Adjoining Properties	6
4.0	User	Provided Information	6
	4.1	Title Records	6
	4.2	Environmental Liens or Activity and Use Limitations	6
	4.3	Specialized Knowledge or Experience	6
	4.4	Commonly Known or Reasonably Ascertainable Information	6
	4.5	Valuation Reduction for Environmental Issues	6
	4.6	Owner, Property Manager, and Occupant Information	6
	4.7	Reasons for Performing Phase I ESA	7
5.0	Reco	ords Review	7
	5.1	Standard Environmental Record Sources	7
	5.2	Additional Environmental Record Sources	12
	5.3	Physical Setting Sources	13
	5.4	Historical Use Information on the Property	13
		5.4.1 Historical Aerial Photographs	13
		5.4.2 Historical Topographic Maps	14
		5.4.3 Historical City Directories	14



		5.4.4 Historical Fire Insurance Maps	15
	5.5	Historical Use Information on Adjoining Properties	16
6.0	Site I	Reconnaissance	16
	6.1	Methodology and Limiting Conditions	16
	6.2	General Site Setting	16
		6.2.1 Current Uses of the Subject Property	16
		6.2.2 Past Uses of the Subject Property	16
	6.3	Site Observations	17
7.0	Inter	views	19
	7.1	Interview with Owner	19
	7.2	Interview with Site Manager	19
	7.3	Interview with Occupants	19
	7.4	Interviews with Local Government Officials	19
	7.5	Interviews with Others	19
8.0	Findi	ings	19
9.0	Opin	ion	20
10.0	Cond	clusions and recommendations	20
11.0	Devia	ations	20
12.0	Addi	tional Services	20
13.0	Refe	rences	21
14.0	Sign	22	
15.0	Qual	23	

APPENDICES

APPENDIX A Figures

APPENDIX B Photographic Documentation

APPENDIX C Regulatory Documentation

APPENDIX D Historical Documentation



1.0 SUMMARY

TriMedia Environmental & Engineering Services, LLC (TriMedia) was retained to complete a Phase I Environmental Site Assessment (Phase I ESA) of a property located at 5 West Central Avenue in Minot, North Dakota ("subject property"). The Phase I ESA was conducted in general accordance with American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-05).

After a review of environmental records, site reconnaissance, review of historical data, and select interviews, TriMedia found indication of one <u>Recognized Environmental Condition</u> (REC) associated with the subject property. The identified REC is as follows:

➤ The former presence of a commercial printing shop constitutes an REC to the subject property.

2.0 INTRODUCTION

2.1 PURPOSE

The purpose of the Phase I ESA was to evaluate the subject property for the presence of RECs (as defined by ASTM E 1527-05). This investigative effort was conducted to provide the City of Minot a basis for asserting landowner liability protections and defenses (should landowner liability protections and defenses become necessary) under the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

This evaluation was conducted in general accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-05). Performance of this Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding environmental matters, while recognizing reasonable limits of time and cost.

The following terms and acronyms may appear in this report:



- 1. Aboveground Storage Tank (AST) any tank that currently is, or has in the past, been used to contain hazardous substances or petroleum products and which is located at least 90% above surface grade.
- Activity and Use Limitations legal (institutional controls) or physical (engineering controls) restrictions or limitations on the use of, or access to, a site to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the site, or to prevent activities that could interfere with the effectiveness of response actions.
- 3. Conditionally Exempt Small Quantity Generator (CESQG) handler generates, transports, stores, or treats one hundred (100) kilograms or less of hazardous waste per calendar month and accumulates one thousand (1000) kilograms or less of hazardous waste at any time.
- 4. De minimis conditions that generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.
- 5. Environmental Lien a charge, security, or encumbrance upon title to a property to secure payment of a cost, damage, debt, obligation, or duty arising out of response actions, clean-up, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC 9607(1) and similar state or local laws.
- 6. Fire Insurance Maps maps produced for private fire insurance companies (i.e., Sanborn Maps) that indicate historical uses of properties at specific dates.
- 7. Hazardous Substance a substance defined as a hazardous substance pursuant to CERCLA 42 USC 9601(14).
- 8. Historical Recognized Environmental Condition an environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently.
- 9. Large Quantity Generator (LQG) handler generates, transports, stores, or treats over one thousand (1000) kilograms of hazardous waste or over one kilogram of acutely hazardous waste per calendar month.
- 10. LUST an underground storage tank on the State of North Dakota list of leaking underground storage tank sites.



- 11. Material Threat a physically observable or obvious threat which is reasonably likely to lead to a release that is threatening and may result in a negative impact to public health or the environment.
- 12. NDDH-EHS North Dakota Department of Health Environmental Health Section
- 13. PCBs Polychlorinated Biphenyls
- 14. Petroleum Products petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance under CERCLA 42 USC, including natural gas, natural gas liquids, and synthetic gas usable for fuel.
- 15. Physical Setting Sources sources that provide information about the geologic, hydrogeologic, or topographical characteristics of the site.
- 16. Reasonably Ascertainable information that is (1) publicly available, (2) obtainable from a source within reasonable time and cost constraints, and (3) practically reviewable.
- 17. Recognized Environmental Condition (REC) the presence or likely presence of any hazardous substances or petroleum products under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.
- 18. Small Quantity Generator (SQG) handler generates, transports, stores, or treats more than one hundred (100) and less than one thousand (1,000) kilograms of hazardous waste during any calendar month and accumulates less than six thousand (6,000) kilograms of hazardous waste at any time.
- 19. Underground Storage Tank (UST) any tank, including underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath surface grade.



2.2 DETAILED SCOPE OF SERVICES

This Phase I ESA is based on the scope-of-services defined in TriMedia's Technical and Cost Proposal dated June 14, 2012. The scope of services included a site reconnaissance, regulatory and historical records review, interviews with individuals knowledgeable about the subject property, and development of this report in accordance with ASTM E1527-05.

The following are not typically part of an ASTM E1527-05 Phase I ESA and were not included in the scope of services provided by TriMedia: asbestos and radon sampling, groundwater sampling and analysis, mold assessment, lead-based paint inspection and analysis, lead in drinking water analysis and wetland delineation.

2.3 SIGNIFICANT ASSUMPTIONS

No significant assumptions were made in this Phase I ESA.

2.4 LIMITATIONS AND EXCEPTIONS

Other than the usual time and budgetary constraints established by the Request for Quotation for this Phase I ESA, and the usual circumstance that not all historical sources listed in the ASTM Standard were reasonably ascertainable, no significant limitations were encountered during the development of this Phase I ESA.

No warranty, either expressed or implied, can be made that conditions observed at the site are representative of all areas of the subject property. Data collected for this Phase I ESA were obtained for the purpose stated and should not be used for reasons other than those intended. The conditions reported herein apply only to those specific locations and times at which the work was completed. Conclusions made in this Phase I ESA are based on reasonably ascertainable information and data and represent the professional judgment and interpretations of TriMedia.

2.5 SPECIAL TERMS AND CONDITIONS

No special terms or conditions apply to this report.

2.6 USER RELIANCE

This Phase I ESA is prepared for the exclusive use and reliance of the City of Minot. Use or reliance by any other party is prohibited without the written authorization of the City of Minot and TriMedia.

Environmental conditions and regulations are continually evolving and are subject to change and interpretation. Do not assume current conditions and/or regulatory positions will remain constant. Furthermore, because the data contained within this Phase I ESA is subject to professional interpretation, other professionals may reach differing conclusions.



Continued viability of this report is subject to ASTM E 1527-05 Sections 4.6 and 4.8. If the Phase I ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E 1527-05.

3.0 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION

The subject property is a surface parking lot located at 5 West Central Avenue in the City of Minot, Ward County, North Dakota. The location of the subject property is presented in Figure 1 and Figure 2, located in Appendix A. Information regarding the subject property was obtained from the City of Minot GIS Property Map on June 22, 2012. According to the website, the parcel number for the subject property is MI242380300240and is owned by the City of Minot. The legal description for the subject property is:

ORIGINAL MINOT ADDITION ALL OF WEST 1/2 OF BLOCK 3

3.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The subject property occupies approximately 42,000 square feet in downtown Minot and encompasses the western half of the block bounded by 1st Avenue SW, 1st Street SW, Central Avenue West, and Main Street South. The subject property slopes to the north with an elevation of approximately 1,586 feet above mean seal level (msl) at the south end and 1,573 feet above msl at the north end. The predominant surface water feature in the vicinity is Souris River located approximately 725 feet north of the subject property. Refer to Appendix A and Appendix B for maps and photographs of the subject and surrounding properties.

3.3 CURRENT USE OF THE PROPERTY

The subject property is currently operated as a surface parking lot.

3.4 STRUCTURES, ROADS, & OTHER ONSITE IMPROVEMENTS

The subject property is an asphalt surface parking lot with the only structure being a small toll booth in the southeastern corner. Four pad-mounted electrical transformers are located on the subject property; two in the northeast corner, one in the southeast corner, and one along the eastern edge of the property. In addition, several street/parking lights are located throughout the property.



3.5 CURRENT USES OF ADJOINING PROPERTIES

The area surrounding the subject property consists of commercial and retail properties. Adjoining properties to the north include: US bank and the 1st Avenue Building, a mixed use building, Thompson-Larson Funeral Home (17 1st Avenue SW) and the Thompson Apartments (13 1st Avenue SW). Adjoining properties to the west include Tom's Coins (11 Central Avenue West), Raymond James (6 1st Street SW), a multi-tenant office building (10 1st Street SW), and Bremer Bank (20 1st Street SW). The parcel north of the subject property is occupied by Brady Martz CPAs and Consultants (24 Central Avenue West) and a multi-tenant retail building (14 Central Avenue West). Immediately east of the subject property, across a narrow alley, are seven properties, generally consisting of retail and office space along with some apartments.

4.0 USER PROVIDED INFORMATION

4.1 TITLE RECORDS

Deed information was not provided. TriMedia assumes the client is evaluating this information outside the context of this report.

4.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The assessment user questionnaire was completed on July 10, 2012 by Matthew Sloan, representative of the subject property purchaser. Mr. Sloan did not have knowledge of environmental liens or AULs encumbering the site or in connection with the site. In addition, TriMedia did not encounter indications of liens or limitations in other aspects of the research for this *Phase I ESA*.

4.3 SPECIALIZED KNOWLEDGE OR EXPERIENCE

Mr. Sloan did not provide any specialized knowledge or experience of the subject property.

4.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

TriMedia is not aware of any commonly known or reasonable ascertainable information associated with historical conditions or remedial actions performed at the subject property.

4.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

Mr. Sloan was not aware of a significantly lower purchase price because of the presence of hazardous substances or petroleum products or other negative environmental conditions.

4.6 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

The subject property is owned by the City of Minot and operated as a surface parking lot. As such, there is no property manager or occupants.



4.7 REASONS FOR PERFORMING PHASE I ESA

This Phase I ESA was commissioned by the City of Minot to evaluate environmental concerns related to a potential purchase and subsequent development of the subject property to include an underground parking structure and aboveground housing.

5.0 RECORDS REVIEW

5.1 STANDARD ENVIRONMENTAL RECORD SOURCES

TriMedia conducted a review of regulatory agency files to determine if the subject property and/or adjacent properties are, or were, known sites of environmental contamination. Reasonably ascertainable environmental record sources were investigated and standard sources were reviewed by TriMedia. A summary report of the review, provided by Environmental Data Resources, Inc. (EDR) and the EDR Radius MapTM Report with GeoCheck® (EDR Radius Map Report) are included in Appendix C.

A number of environmental data sources were reviewed and documented sites were found within the ASTM E 1527-05 search radius around the subject property. The following data sources were investigated:

Federal Databases

<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Facilities</u>
NPL	The NPL is the USEPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.	1.0	0
NPL (Proposed)	Proposed National Priority List Sites	1.0	0
NPL (Delisted)	The NPL Delisted refers to facilities that have been removed from the NPL.	1.0	0
NPL Recovery	Federal Superfund Liens	Site	0
CERCLIS / NFRAP	The CERCLIS database is a compilation of facilities which the USEPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the CERCLA of 1980. NFRAP refers to facilities that have been removed and archived from its inventory of CERCLA sites.	0.5	0
RCRA CORRACTS/ TSD	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous waste that are undergoing "corrective action." A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1.0	0



<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Facilities</u>
RCRA Non- CORRACTS/ TSD	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.	0.5	0
RCRA Generators	The RCRA Generators database, maintained by the USEPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as large, small, or conditionally exempt. LQG produces at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.	0.25	1
RCRA-NonGen	The RCRA-NonGen database, maintained by the USEPA, lists facilities that were previously listed in the RCRA Generators database but no longer generate hazardous waste as part of their normal business practices.	0.25	3
ERNS	The ERNS is a listing compiled by the USEPA on reported releases of petroleum and hazardous substances to the air, soil and/or water.	Site	0
HMIRS	Hazardous Materials Information Reporting System	Site	0
IC / EC	A listing of sites with engineering and/or institutional controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.	0.5	0
DOD	Department of Defense Sites	1.0	0
FUDS	Formerly Used Defense Sites	1.0	0
US BROWNFIELDS	A listing of Brownfield Sites	0.5	0
CONSENT	Superfund (CERCLA) Consent Decrees	1.0	0
ROD	Records of Decision	1.0	0
UMTRA	Uranium Mill Tailings Sites	0.5	0
ODI TRIS	Open Dump Inventory Toxic Chemical Release Inventory System	0.5	0
TSCA	Toxic Chemical Release Inventory System Toxic Substances Control Act	Site Site	0
FTTS	FIFRA/TSCA Tracking System	Site	0
		5110	J



<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Facilities</u>
SSTS	Section 7 Tracking Systems	Site	0
ICIS	Integrated Compliance Information System	Site	0
LUCIS	Land Use Control Information System	0.5	0
RADINFO	Radiation Information Database	Site	0
CDL	Clandestine Drug Labs	Site	0
PAD	PCB Activity Database System	Site	0
MLTS	Material Licensing Tracking System	Site	0
MINES	Mines Master Index File	0.25	1
FINDS	Facility Index System/Facility Registry System	Site	0
RAATS	RCRA Administrative Action Tracking System	Site	0

State Databases

<u>Database</u>	<u>Description</u>	Radius (miles)	<u>Facilities</u>
State Hazardous Waste	The NDDH-EHS maintains a database of state equivalent CERCLIS facilities in the State of North Dakota.	1.0	0
SWF/LF	The NDDH-EHS maintains a database of solid waste disposal facilities and landfills in the State of North Dakota.	0.5	0
LUST	The NDDH-EHS has compiled a database of Leaking Underground Storage Tank in the State of North Dakota.	0.5	12
UST	The NDDH-EHS has compiled a database of registered Underground Storage Tanks in the State of North Dakota.	0.25	16
AST	The NDDH-EHS has compiled a database of registered Aboveground Storage Tanks in the State of North Dakota.	0.25	0
BEA	The NDDH-EHS maintains a listing of properties in which a Baseline Environmental Assessment (BEA) has been conducted.	0.5	0
AUL	Sites with institutional and/or engineering controls in place.	0.5	0
DRYCLEANERS	The NDDH-EHS maintains a list of dry-cleaning facilities in the State of North Dakota.	0.25	0
LIENS	The NDDH-EHS maintains a list of liens placed on a property due to an environmental condition.	Site	0
BROWNFIELDS	Brownfields Site Location Listing	0.5	0
AIRS	Air Permit and Emissions Inventory Data	Site	0

Tribal Databases

INDIAN RESERVE	Indian Reservations	1.0	0
INDIAN LUST	Leaking Underground Storage Tanks on Indian land	0.5	0
INDIAN UST	The NDDH-EHS has compiled a database of registered Underground Storage Tanks on Indian land in the State of North Dakota.	0.25	0



EDR Proprietary Records

Manufactured	EDR Proprietary Manufactured Gas Plants	1.0	0
Gas Plants	EDN Froprietary Maridiactured Gas Flants	1.0	U

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the subject property. Distances and directions of several facilities were adjusted to field observed distances. Additional discussion regarding selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance/Direction/Gradient	Database Listings
US Government GSA 100 1 st Street SW	Formerly on Subject Property*	UST
Bray's Cleaners 10 1 st Street NW	Approximately 35 feet / Northwest / Downgradient	RCRA-NonGen, FINDS
Deaver Oil Company 8 1 st Avenue SE	Approximately 230 feet / ESE / Side gradient	LUST, UST
Minot Laundry and Cleaners, Inc. 200 1 st Street SW	Approximately 410 feet / South / Upgradient	LUST, UST
I Keating Inc. 10 South Broadway	Approximately 425 feet / West / Side gradient	UST
Sherwin Williams Co. 213 South Main Street	Approximately 490 feet / SSE / Side gradient	RCRA-NonGen, FINDS
Northern States Power Company 24 2 nd Avenue SE	Approximately 500 feet / SSE / Side gradient	UST
US West Communications 201 South Broadway	Approximately 510 feet / Southwest / Side gradient	UST
Sweetheart Bakery 220 South Broadway	Approximately 565 feet / Southwest / Side gradient	UST
Burlington Northern Railroad Company Main & 1 st Avenue North	Approximately 590 feet / Northeast / Downgradient	UST
BNSF Gavin Yard Hwy 12 and 12N	Approximately 680 feet / ENE / Side gradient	LUST, UST
Sweetheart Bakery Truck Shop 300 3 rd Street SW	Approximately 880 feet / Southwest / Side to Upgradient	UST
Minot Farmers Elevator PO Box 1748	Approximately 930 feet / Southeast / Downgradient	LUST, UST



Facility Name and Location	Estimated Distance/Direction/Gradient	Database Listings
Trinity Hospital Burdick Expressway & Main Street	Approximately 1,050 feet / South / Up gradient	UST, RCRA-CESQG, FINDS
Farmers Union Oil Company 215 East Central Avenue	Approximately 1,060 feet / East / Side gradient	UST
M and H Gas 25 East Burdick Expressway	Approximately 1,100 feet / SSE / Up to Side gradient	LUST, UST
Carquest Western Auto 300 3 rd Avenue SW	Approximately 1,100 feet / Southwest / Side gradient	RCRA-NonGen, FINDS
Aggregate Construction Inc. Ward County, ND	Approximately 1,130 feet / SSW / Up to Side gradient	MINES
Firestone Store of Minot 301 East Central Avenue	Approximately 1,305 feet / ENE / Side to Downgradient	UST
Bridgestone Creamery 23-27 3 rd Street NE	Approximately 1,310 feet / ENE / Side to Downgradient	UST
Rent a Wreck 529 Burdick Expressway	Approximately 1,800 feet / Southwest / Side gradient	LUST, UST
Mini Mart 671 409 4 th Avenue SE	Approximately 2,005 feet / ESE / Side gradient	LUST, UST
Holiday Station Store 110 700 North Broadway	Approximately 2,050 feet / SSW / Up to Side gradient	LUST, UST
North Dakota Concrete Products 5 th Avenue & 4 th Street NE	Approximately 2,065 feet / Southeast / Side gradient	LUST, UST
Amoco SS 8643 300 5 th Street SE	Approximately 2,325 feet / ESE / Side gradient	LUST, UST
Mini Mart 673 810 North Broadway	Approximately 2,575 feet / South / Upgradient	LUST, UST
Campus Texaco 815 North Broadway	Approximately 2,585 feet / South / Upgradient	LUST, UST

^{*} Although the EDR report lists the US Government GSA site as being on the subject property, the address provided indicates it was actually located at the southwest corner of the intersection of 1st Street SW and 1st Avenue SW. This is consistent with the current government use of the property for the Bruce M. VanSickle Federal Building/Courthouse.



US Government GSA

The EDR Database does not provide additional information regarding this site, just that a UST was formerly registered at this address. Additional research indicated that the site is listed in the NDDH-EHS Waste Management Division's UST database but not the LUST database. Therefore, there has not been a documented release from this site.

Minot Laundry and Cleaners, Inc.

Minot Laundry and Cleaners, Inc. were formerly located south of the subject property at 200 1st Street SW. The EDR Radius Map Report lists the property in the LUST and UST databases. The LUST database indicates that the site cleanup had been completed as of July 17, 1993. Because this site is located approximately 440 feet upgradient to the subject property and site cleanup activities have been completed, it is reasonable to assume that potential impacts from this site have not impacted the subject property.

Other Sites

The remaining facility listings do not appear to represent RECs to the subject property at this time based upon regulatory status, apparent topographic gradient and distance from the subject property.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report lists 20 facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the subject property. These facilities are listed in the EDR Radius Map Report located in Appendix C.

5.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

TriMedia submitted a Freedom of Information Act (FOIA) request to the NDDH-EHS Hazardous Waste and Underground Storage Tank programs for file information on the subject property and the US Government GSA and Minot Laundry and Cleaners properties. Ms. Emily Tintes Schiwal responded via e-mail indicating the Hazardous Waste Program had no file information associated with the above mentioned properties.

Mr. Kirk Johnson of the Division of Waste Management responded via e-mail with a summary of file information for the US Government GSA and former Minot Laundry & Cleaners sites. The GSA file indicates a 10,000 gallon fiberglass heating oil tank was installed in January 1976 and removed on September 28, 1994. There is no record of any leaks or contamination, but no air, soil, or water samples were collected from the excavated tank site before it was backfilled and closed.



The Minot Laundry & Cleaners file indicates that three USTs that had been installed in 1956 were removed from the site in 1993. Observations made during removal did not indicate a release had occurred. The tanks were inspected and no holes were noted in them. However, 20-40 cubic yards of earthen material (fill and native soil) were removed from the excavation and at least a portion of this material was land farmed at a local landfill because they contained a 'low level of solvents'. The file also indicates that a boring advanced on the subject property prior to tank removal. Hydrocarbon odors were noted by the drilling crew and field screening indicated hydrocarbons were detected in the boring ranging from 200 to 740 parts per million.

Refer to Appendix C for records documenting the FOIA request results.

5.3 PHYSICAL SETTING SOURCES

TriMedia used a United States Geological Survey (USGS) Topographic Map, EDR's GeoCheck[®] option and specific local project experience to obtain information regarding the subject property's physical setting (i.e. soils, geology, hydrology, etc.). This information is discussed in Section 6.2.

5.4 HISTORICAL USE INFORMATION ON THE PROPERTY

TriMedia reviewed standard historical sources, as identified in E 1527-05, to identify potential RECs associated with historical use of the property. TriMedia subcontracted EDR to provide the following standard historical sources:

5.4.1 Historical Aerial Photographs

The EDR Aerial Photo Decade Package provided TriMedia with historical aerial photographs from 1946, 1966, 1974, 1982, 1984, 1992, 1995, 2005, and 2006. Selected photographs are summarized below. Because the subject property is located in the oldest part of Minot, the surrounding area is fully developed and has only experienced minor redevelopment since 1946. Note that the resolution and scale of photographs from 1974, 1982, and 1984 do not enable accurate assessment of the area.



Historical Aerial Photographs

Direction	Description
Subject Property	Based on aerial photographs, the subject property appears to have been developed with what is likely retail or commercial buildings in the 1946 photograph. Sometime between 1966 and 1974 the property appears to have been redeveloped as a surface parking lot
North	The area north of the subject property does not appear to have undergone any significant changes since 1946. This area currently consists of retail and commercial properties.
East	The area east of the subject property does not appear to have undergone any significant changes since 1946. This area currently consists of retail and commercial properties.
South	The area south of the subject property is not visible in the 1946 photograph. Since 1946, the area has been developed for retail/commercial use.
West	The area west of the subject property has been developed for retail/commercial use since 1946.

5.4.2 Historical Topographic Maps

The EDR Historical Topographic Map Report provided TriMedia with historical USGS topographic maps from 192, 1949, 1966, and 1979. The scale of the topographic maps does not provide any indication of changes in development in the area of the subject property, but all the maps clearly show the area as being commercially developed.

5.4.3 Historical City Directories

The EDR City Directory Abstract provided TriMedia with historical business directory (Polk's City Directory) listings for the subject property's address and addresses in proximity to the subject property. Listings (if listed) were provided from 1963 to 2012 at approximately six year intervals.

Addresses for the subject property are listed in the 1963 and 1969 directories. Address listings along 1st Street SW included Watne Realty Company, McCannel Apartments, Security Block Apartments, The Thirteen Club (tavern), Northwest Sporting Goods Inc., and Central Office Supply. Address listings along 1st Avenue SW included Coast to Coast Stores (hardware), United Service Organization, Anderson's D & S Bootery, Berg & Anderson Building (office building), B & B Lunch, Ruelle Barber & Beauty Shop, Riverside Radio Shop, and B & B Walgreen Drug.

Based on City Directory listings, the area surrounding the subject property has been a mix of retail, commercial, medical, and government buildings since at least 1963. No listings were present which indicated a use that would constitute a REC for the site.



5.4.4 Historical Fire Insurance Maps

The EDR Certified Sanborn Map Report provided TriMedia with historical fire insurance maps (Sanborn Maps) from 1904, 1907, 1913, 1918, 1926, 1932, 1945, and 1952. Relevant uses of the subject property and surrounding properties are summarized below.

Historical Sanborn Maps

Year	Description
1904	The subject property is largely undeveloped with a fire hall/lock-up at the southeast corner, a plumber and flour/feed store at the northeast corner, and five other buildings on the property. Property to the north contains a hotel and hardware store. Property to the west is developed with residential dwellings. Property to the south contains a livery, pool/card room, bicycle shop, and Salvation Army office.
1907	The subject property is further developed, with the fire hall being expanded to include City Hall in a larger building. Additional development at the north end of the property is also present. Property to the north has been converted to a printing shop and a tailor. Property to the west remains largely residential, but a steam laundry and garage have been constructed. Property to the south and east remains similar to 1904
1913	Further development of the subject property has continued with the appearance of a printing shop and plans for a department store next to City Hall. Property to the east, west, and south remain largely unchanged. Property to the north along Central Avenue West has been further developed for retail use.
1918	Further retail development has occurred at the northern end of the subject property, and the printing shop has been replaced by a grocery store. Property to the west and north has now been converted almost entirely to retail use. Property to the south and east remain similar to 1913.
1926	The subject property has now been converted entirely to retail/commercial use except for the City Hall building. Surrounding properties remain largely unchanged.
1932	A printing shop now occupies the southwest corner of the subject property. Surrounding properties remain largely unchanged.
1945	The printing shop is no longer present; otherwise the subject property remains similar to 1932. Surrounding properties remain largely unchanged.
1952	A dry cleaning shop is now located south of the subject property. Otherwise, no significant changes are apparent for the subject or surrounding properties.

The former presence of a commercial printing shop on the subject property represents an REC.



5.5 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES

Historical information indicates that adjoining properties to the north and south have been developed since prior to 1904. Although property uses have changed over the years, adjoining properties have consisted of a mixture of residential, retail, commercial, medical, government, and religious uses.

6.0 SITE RECONNAISSANCE

6.1 METHODOLOGY AND LIMITING CONDITIONS

TriMedia, represented by Mr. Derek Senn, PE, Senior Environmental Engineer, conducted a site reconnaissance of the subject property on June 19, 2012. Weather conditions at the time of site reconnaissance were cloudy with a temperature of approximately 70 degrees Fahrenheit (°F). TriMedia did not recognize any indications that would imply environmental contamination on the subject property on June 19, 2012.

The site reconnaissance included the following:

- > Observation of the subject property and adjacent properties for indications of RECs;
- Visual and physical observation of the periphery of the subject property and structures made by walking the perimeter of the subject property and crisscrossing the site to identify points of interest;
- Observation of surrounding properties.

6.2 GENERAL SITE SETTING

6.2.1 Current Uses of the Subject Property

The subject property located at 5 Central Avenue West is currently a surface parking lot.

6.2.2 Past Uses of the Subject Property

Based on historical sources, the subject property was redeveloped as a surface parking lot sometime between 1969 and 1974. Prior to its redevelopment, it had been developed as a mixture of residential, retail, and commercial space. Refer to Appendix D for copies of the aerial photographs, topographic maps, and City Directories.

6.2.3 Current or Past Uses of Surrounding Properties

Properties surrounding the subject property have been and are still being used for commercial, residential, retail, medical, and government purposes.



6.2.4 Geologic, Hydrogeologic, and Topographic Conditions

The topography of the subject property is a slight to moderate slope to the north. Assumed local groundwater flow is to the north based on the general topographic gradient and the location of the Souris River.

The underlying geology of the area consists of Cenozoic Era Tertiary System with Paleocene Series. The soil types in the area are characterized as moderately well drained, deep loam and excessively drained, deep gravelly loam.

6.2.5 General Description of Structures

The only structure on the subject property is a small toll booth measuring approximately 16 feet by 26 feet at the southeast corner of the property. .

6.2.6 Roads and Utilities

The subject property is bordered by 1st Street SW to the west, Central Avenue West to the north, and unnamed alley to the east, and 1st Avenue SW to the south. The subject property is an asphalt parking lot with two entrances; one each from the north and west through automated parking barriers. There is an exit and associated toll booth at the southeast corner of the property. Pad mounted transformers are located in the southeastern corner and along the eastern edge of the subject property, two pad mounted transformers are located in the northeastern corner of the subject property, and several light fixtures fed by underground electric are present in and surrounding the parking lot.

6.3 SITE OBSERVATIONS

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table. Photographs of select items observed at the site are included in Appendix B.

Site Features

Category	Item or Feature	Observed
	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
Site Operations,	Dry cleaning	
Processes, and	Photo processing	
Equipment	Laboratory hoods and/or incinerators	
	Waste treatment systems and/or water treatment	
	systems	
	Heating and/or cooling systems	
	Other processes or equipment	
Aboveground	Aboveground storage tanks	
Chemical or Waste	Drums, barrels and/or containers ≥ 5 gallons	



Category	Item or Feature	Observed
Storage	MSDS	
	Underground storage tanks or ancillary UST equipment	
Underground	Sumps, cisterns, catch basins and/or dry wells	
Chemical or Waste	Grease traps	
Storage, Drainage or	Septic tanks and/or leach fields	
Collection Systems	Oil/water separators	
	Pipeline markers	
	Interior floor drains	
Electrical	Pad or pole mounted transformers and/or capacitors	Х
Transformers/ PCBs	Other equipment	
	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	
Releases or Potential	Dumping or disposal areas	
Releases	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent	
	discharges	
Other Notable Site	Surface water bodies	
Other Notable Site Features	Quarries or pits	
i catures	Wells	

Electrical Transformers/PCBs

Electrical

Pad-mounted transformers were observed in the southeastern corner and along the eastern edge of the subject property and two pad-mounted transformers were observed in the northeastern corner of the subject property. The concrete pad did not show any evidence of staining. Transformers contain mineral oil, which may contain minor amounts of polychlorinated biphenyls (PCB) and could be considered "PCB contaminated" (PCB content of 50-499 parts per million).

The utility company maintains responsibility for the transformers. If the transformers were "PCB contaminated" the utility company is not required to replace the transformer fluids until a release is identified. Again, evidence of a current or prior release in the vicinity of the electrical transformer was not observed by TriMedia during the site reconnaissance.



7.0 INTERVIEWS

7.1 INTERVIEW WITH OWNER

Cindy Hemphill, Finance Director for the City of Minot, indicated that nobody with the City had any knowledge of the parcel.

7.2 INTERVIEW WITH SITE MANAGER

As the site is a surface parking lot, there is no site manager.

7.3 INTERVIEW WITH OCCUPANTS

The subject property is unoccupied.

7.4 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

TriMedia contacted the City of Minot Fire Department to see if they had any files for the subject property. Fire Marshall Ed Hausauer responded via telephone and said that although various buildings on the subject property had burned down in the past, the Fire Department did not have any records of former gas stations, storage tanks, or hazardous material releases. Refer to Appendix C for records documenting the FOIA request results.

7.5 INTERVIEWS WITH OTHERS

TriMedia did not interview others associated with the subject property.

8.0 FINDINGS

After a review of environmental records, site reconnaissance, review of historical data, and select interviews, TriMedia identified one REC associated with the subject property:

➤ The former presence of a commercial printing shop constitutes an REC to the subject property.



9.0 OPINION

Based on reasonably ascertainable information compiled by TriMedia, as well as information and data provided by other select individuals and/or agencies during the completion of this Phase I ESA, it is our professional opinion the results of the Phase I ESA has revealed evidence suggesting the presence of current environmental concerns regarding the subject property. Further quantitative environmental investigations (i.e. Limited Phase II ESA) are recommended for the subject property.

10.0 CONCLUSIONS AND RECOMMENDATIONS

Based on reasonably ascertainable information compiled by TriMedia, as well as information and data provided by other select individuals and/or agencies during the completion of this Phase I ESA, it is our professional opinion the results of the Phase I ESA has revealed evidence suggesting the presence of current environmental concerns regarding the subject property. Further quantitative environmental investigations (i.e. Limited Phase II ESA) are recommended for the subject property.

In consideration of the intended use of the subject property, the advancement of soil borings to collect representative soil and groundwater samples for laboratory analysis is warranted. The analytical parameters should include typical contaminants associated with commercial printing operations (volatile organic compounds) and be compared to existing North Dakota Century Code criteria and related Division of Waste Management and Division of Water Quality guidance documents.

11.0 DEVIATIONS

TriMedia has performed this Phase I ESA in conformance with the scope and limitation of ASTM Practice E 1527-05. TriMedia relied on the information and data provided by other organizations specifically denoted herein. TriMedia used its education, experience and professional judgment to conduct this Phase I ESA.

12.0 ADDITIONAL SERVICES

No additional services were included as part of this Phase I ESA.



13.0 REFERENCES

Name of Data Source	Date of Initial Inquiry	Date of Most Recently Provided Information	Supporting Documentation
Mr. Matt Sloan Cypress Development 105 1 st Street SE Minot, ND 58701 (916) 616-7444	June 28, 2012	July 10, 2012	User Questionnaire and interview information
Ms. Cindy Hemphill (Finance Director) City of Minot 515 2 nd Avenue SW Minot, ND 58702 (701) 857-4774	July 3, 2012	July 10, 2012	Correspondence as noted in this report
Environmental Data Resources Inc. 440 Wheelers Farms Road Milford, CT 06460 1-800-352-6802	June 14, 2012	June 18, 2012	Sanborn maps, topographic maps, environmental database records, aerial photographs
Ed Hausauer Fire Marshall City of Minot Fire Department 2111 10 th Street SW Minot, ND 58702 (701) 857-4740	June 28, 2012	June 29, 2012	Correspondence as noted in this report
Emily Tintes Schiwal, MPH North Dakota Department of Health – Environmental Health Section Hazardous Waste Program 918 East Divide Avenue Bismarck, ND 58501-1947 (701) 328-5166 eschiwal@nd.gov	June 14, 2012	June 19, 2012	Correspondence as noted in this report
Kirk Johnson North Dakota Department of Health – Environmental Health Section Underground Storage Tank Program 918 East Divide Avenue Bismarck, ND 58501-1947 (701) 328-5167 kijohnson@nd.gov	June 14, 2012	July 2, 2012	Correspondence as noted in this report



14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

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

Velon Jemi	8/6/2012
Derek T. Senn, P.E.	Date

Senior Environmental Engineer

And Same

8/6/2012

Thomas L. Anthos, CIH

Principal Industrial Hygienist

Date

15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Derek T. Senn, P.E., C.P.

Senior Environmental Engineer

Summary of Professional Experience

Mr. Senn is a Professional Engineer with extensive experience directing and managing environmental assessments and investigations, regulatory compliance, due diligence, and remedial action activities. He has conducted numerous environmental site assessments, baseline environmental assessments and remedial investigations (to ASTM standards) in support of clients throughout North America.

Mr. Senn draws from a strong regulatory background and is familiar with state and federal regulations and guidelines including RCRA, CERCLA, and SWMA. His regulatory expertise proves vital in demonstrating due diligence in property transactions and with returning contaminated sites to productive use. In addition, Senn has experience in environmental field activities and technical procedures used to gather environmental data.

As a Project Manager, Mr. Senn is also involved with subsurface soil and water characterization, hydrogeology, groundwater modeling activities, and treatment system design management, operation, and maintenance. He has utilized contaminant fate and transport modeling, and conducted feasibility studies that identify the most technically sound and cost-effective alternative for remediation of contaminated property.

Certifications

- > OSHA 40-Hour Hazardous Waste Operations and Emergency Response
- Michigan (#6201055035), Indiana (#PE10910577) & North Dakota (#PE-8039) Professional Engineer (P.E.)
- Certified Underground Storage Tank Professional (#1116)
- American Red Cross Adult CPR and Basic First Aid
- State of Michigan Industrial and Commercial Waste Water Treatment Plant Operator Certification A-2d, B-2c and B-3b

Education

B.S. – Geological Engineering,
 University of North Dakota, Grand Forks, North Dakota

Affiliations

- National Society of Professional Engineers
- > National Groundwater Association
- Michigan Association of Environmental Professionals
- Association of Environmental & Engineering Geologists
- > ASTM Subcommittee on Environmental Risk Management



Thomas L. Anthos, CIH

Principal Industrial Hygienist

Summary of Professional Experience

Mr. Anthos has over eighteen years of diverse expertise with industrial hygiene and environmental compliance projects. Over the course of his career, Mr. Anthos has managed all aspects of industrial hygiene projects including initial and baseline surveys of work areas and operations to identify and evaluate potential worker health risks. He is also well versed in regulatory compliance activities including, environmental/facility compliance audits, environmental assessments and due diligence evaluations.

Mr. Anthos designs and oversees industrial hygiene projects ranging from large-scale multiple building industrial complexes to small-scale, budget sensitive project concerns. He has completed occupational exposure monitoring studies involving silica in the construction and surface mining industries, hexavalent chromium exposure during power plant maintenance activities, and particulate exposure within the indoor environment.

Past clients have included explosive manufacturers, surface mining operations, national railroad concerns, power plants, foundries, water treatment plants, and paper mills. Mr. Anthos has also been a technical expert for several industrial hygiene related lawsuits.

Certifications

- Board Certified in the comprehensive practice of industrial hygiene by the American Board of Industrial Hygiene, Certificate Number 9000
- Certified Hazardous Materials Manager
- OSHA 40-Hour Hazardous Waste Site Operations (supervisor)
- Licensed Asbestos Inspector (MI, WI, MT)
- > NIOSH Accredited Phase Contrast Microscopist

Education

B.S. - Biological Sciences,
 Michigan Technological University, Houghton, Michigan

Professional Affiliations

- American Industrial Hygiene Association
- American Board of Industrial Hygiene
- ➤ Peer Review Board IICRC S520 Mold Remediation Guidelines



Phase I Environmental Site Assessment APPENDICES

Appendix A Figures

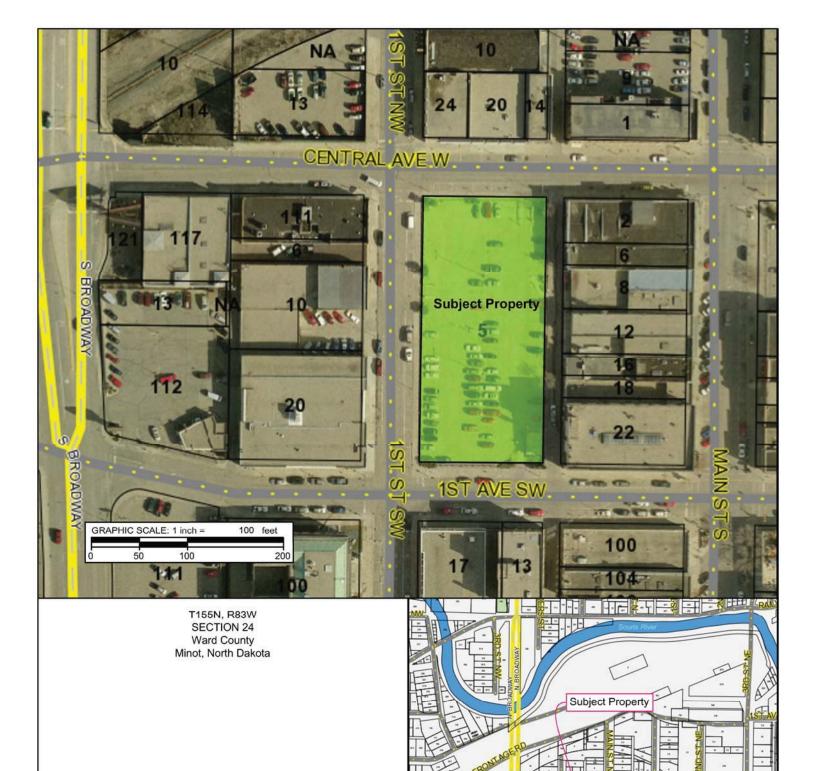
Appendix B Photographic Documentation
Appendix C Regulatory Documentation
Appendix D Historical Documentation



Appendix A

Figures





SOURCE: USDA PROJECTION: NAD 83 UTM ZONE 16N

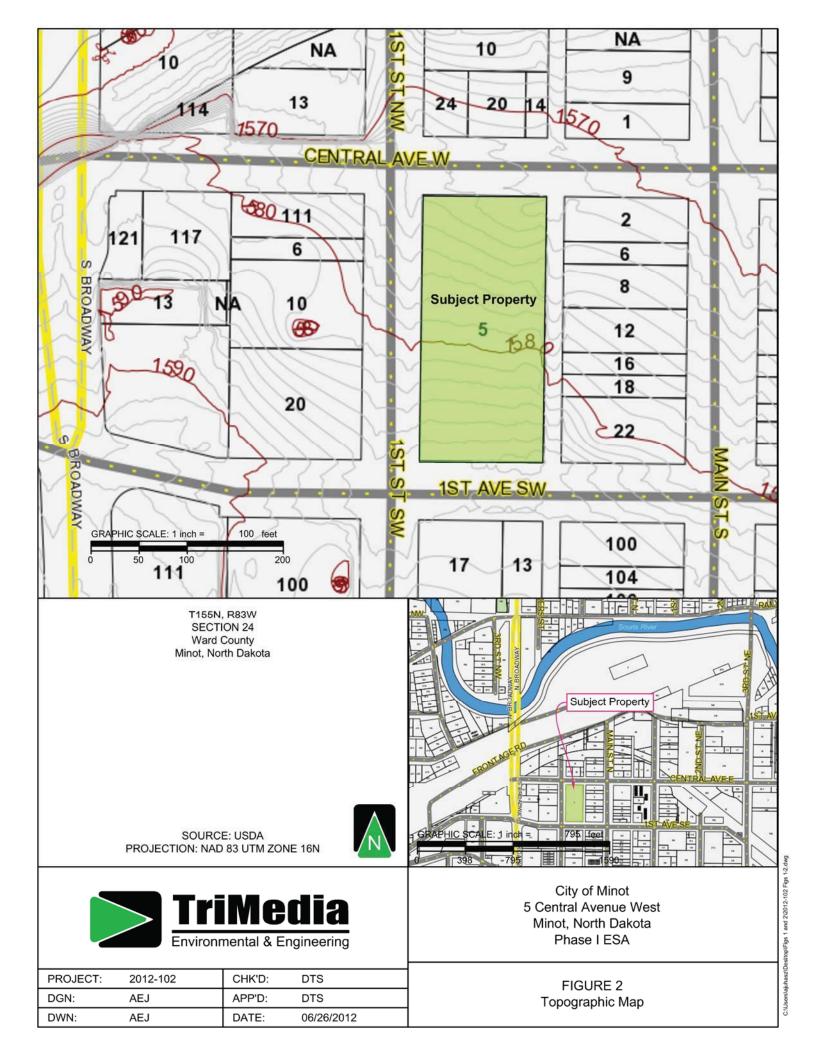




City of Minot 5 Central Avenue West Minot, North Dakota Phase I ESA

PROJECT:	2012-102	CHK'D:	DTS
DGN:	AEJ	APP'D:	DTS
DWN:	AEJ	DATE:	06/26/2012

FIGURE 1 Aerial Photograph C:\Users\ajuhasz\Desktop\Figs 1 and 2\2012-102 Figs 1-



Appendix B

Photographic Documentation





Date: 6/19/2012 Direction: W Taken By: DTS
Description: View of property located to the west of subject property, viewed from the northern end of subject property



Date: 6/19/2012 Direction: S Taken By: DTS Description: US Bank property located north of subject property

CITY OF MINOT PHASE I ESAS - US BANK

MINOT, NORTH DAKOTA



Date: 6/19/2012 Direction: S Taken By: DTS Description: Mixed-use building located east of US Bank property



Date: 6/19/2012 Direction: SE Taken By: DTS Description: Property located SE of subject property

Environmental & Engineering



Date: 6/19/2012 Direction: N Taken By: DTS Description: Alley located east of subject property



Date: 6/19/2012 Direction: NNW Description: SE Corner of subject property

Taken By: DTS



Date: 6/19/2012 Direction: N Taken By: DTS

Description: Subject property viewed from southern end



Date: 6/19/2012 Direction: S Taken By: DTS Description: Subject property viewed from NE corner



Date: 6/19/2012 Direction: W Taken By: DTS Description: View of north end of subject property from NE corner



Date: 6/19/2012 Direction: NE Taken By: DTS Description: Property located NE of subject property



Date: 6/19/2012 Direction: N Taken By: DTS Description: Property located north of subject property



Date: 6/19/2012 Direction: S Taken By: DTS Description: Alley located east of subject property



Date: 6/19/2012 Direction: N Taken By: DTS

Description: Property located north of subject property



Date: 6/19/2012 Direction: S Taken By: DTS

Description: View from northern end of subject property



Date: 6/19/2012 Direction: NW Description: Property NW of subject property

Taken By: DTS



Date: 6/19/2012 Direction: N Taken By: DTS

Description: View from NW corner of subject property

CITY OF MINOT PHASE I ESAS - US BANK

MINOT, NORTH DAKOTA



Date: 6/19/2012 Direction: SW Taken By: DTS Description: Properties located west of subject property, viewed from NW corner of subject property



Date: 6/19/2012 Direction: S Taken By: DTS Description: Western end of subject property, viewed from NW corner



Date: 6/19/2012 Direction: W
Description: Property west of subject property

Taken By: DTS



Date: 6/19/2012 Direction: NNW Taken By: DTS Description: Properties located west of subject property, viewed from SW corner of subject property

CITY OF MINOT PHASE I ESAS – US BANK

MINOT, NORTH DAKOTA



Date: 6/19/2012 Direction: NNE Taken By: DTS

Description: View from SW corner of subject property

Appendix C

Regulatory Documentation (available on electronic version only)



Minot Site 2
1st Street SW/1st Avenue SW
Minot, ND 58701

Inquiry Number: 03344483.8r

June 14, 2012

The EDR Radius Map™ Report with GeoCheck®

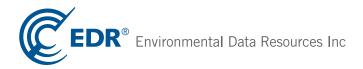


TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary.	4
Map Findings.	7
Orphan Summary	
Government Records Searched/Data Currency Tracking	GR-1
GEOCHECK ADDENDUM	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map.	A-5
Physical Setting Source Map.	A-12
Physical Setting Source Map Findings.	A-14
Physical Setting Source Records Searched	A-61

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1ST STREET SW/1ST AVENUE SW MINOT, ND 58701

COORDINATES

Latitude (North): 48.2359000 - 48° 14' 9.24" Longitude (West): 101.2941000 - 101° 17' 38.76"

Universal Tranverse Mercator: Zone 14 UTM X (Meters): 329651.8 UTM Y (Meters): 5344845.5

Elevation: 1591 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 48101-B3 MINOT, ND

Most Recent Revision: 1979

North Map: 48101-C3 BURLINGTON SE, ND

Most Recent Revision: 1979

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010 Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list		
NPL	National Priority List	

EXECUTIVE SUMMARY

Proposed NPL.....Proposed National Priority List Sites NPL LIENS..... Federal Superfund Liens Federal Delisted NPL site list Delisted NPL..... National Priority List Deletions Federal CERCLIS list CERCLIS.... FEDERAL FACILITY..... Federal Facility Site Information listing Federal CERCLIS NFRAP site List CERC-NFRAP..... CERCLIS No Further Remedial Action Planned Federal RCRA CORRACTS facilities list CORRACTS..... Corrective Action Report Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Treatment, Storage and Disposal Federal RCRA generators list RCRA-LQG______RCRA - Large Quantity Generators RCRA-SQG..... RCRA - Small Quantity Generators Federal institutional controls / engineering controls registries US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL..... Sites with Institutional Controls Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent CERCLIS NPL list. State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Solid Waste Landfills/Special Use Landfills State and tribal leaking storage tank lists INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists AST..... Aboveground Storage Tank Listing

INDIAN UST...... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL.....Land Use Controls Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... List of Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI....... Open Dump Inventory SWRCY...... Recycling Centers

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS.....Land Use Control Information System

Records of Emergency Release Reports

HMIRS_____ Hazardous Materials Information Reporting System

SPILLS..... State Spills

Other Ascertainable Records

CONSENT..... Superfund (CERCLA) Consent Decrees

TRIS...... Toxic Chemical Release Inventory System

TSCA...... Toxic Substances Control Act

FTTS......FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS...... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

FINDS______Facility Index System/Facility Registry System RAATS______RCRA Administrative Action Tracking System

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing COAL ASH EPA...... Coal Combustion Residues Surface Impoundments List

EPA WATCH LIST..... EPA WATCH LIST

PCB TRANSFORMER PCB Transformer Registration Database COAL ASH DOE Sleam-Electric Plan Operation Data 2020 CORRECTIVE ACTION 2020 Corrective Action Program List

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/15/2012 has revealed that there is

1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRINITY HOSPITAL	1 BURDICK EXPRESSWAY	N SSE 1/8 - 1/4 (0.204 mi.)	C16	16

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health's LUST List

A review of the LUST list, as provided by EDR, and dated 03/05/2012 has revealed that there are 12 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
MINOT LAUNDRY AND CLEANERS INC Facility Status: Site Cleanup Completed	200 1ST STREET SOUTHWES	SSW 0 - 1/8 (0.078 mi.)	4	10	
M AND H GAS Facility Status: Site Cleanup Completed Facility Status: Site Cleanup Completed	25 EAST BURDICK EXPRESS	SSE 1/8 - 1/4 (0.208 mi.)	17	19	
RENT A WRECK Facility Status: Site Cleanup Completed	529 BURDICK EXPRESSWAY	SW 1/4 - 1/2 (0.340 mi.)	22	31	
HOLIDAY STATION STORE 110 Facility Status: Site Cleanup Completed	700 NORTH BROADWAY	SSW 1/4 - 1/2 (0.388 mi.)	24	32	
MINI MART 673 Facility Status: Site Investigation Continuin	810 NORTH BROADWAY g	S 1/4 - 1/2 (0.488 mi.)	F27	33	
CAMPUS TEXACO Facility Status: Site Cleanup Completed	815 NORTH BROADWAY	S 1/4 - 1/2 (0.490 mi.)	F28	34	
Lower Elevation	Address	Direction / Distance	Map ID	Page	
DEAVER OIL COMPANY Facility Status: Site Cleanup Completed	Address 8 1ST AVE SE	ESE 0 - 1/8 (0.044 mi.)	Map ID	Page 9	
DEAVER OIL COMPANY	8 1ST AVE SE HWY 12 AND 12N				
DEAVER OIL COMPANY Facility Status: Site Cleanup Completed BNSF GAVIN YARD Facility Status: Site Cleanup Completed	8 1ST AVE SE HWY 12 AND 12N	ESE 0 - 1/8 (0.044 mi.)	3	9	
DEAVER OIL COMPANY Facility Status: Site Cleanup Completed BNSF GAVIN YARD Facility Status: Site Cleanup Completed Facility Status: Site Investigation Continuin MINOT FARMERS ELEVATOR	8 1ST AVE SE HWY 12 AND 12N	ESE 0 - 1/8 (0.044 mi.) ENE 1/8 - 1/4 (0.129 mi.)	3	9	
DEAVER OIL COMPANY Facility Status: Site Cleanup Completed BNSF GAVIN YARD Facility Status: Site Cleanup Completed Facility Status: Site Investigation Continuin MINOT FARMERS ELEVATOR Facility Status: Site Cleanup Completed MINI MART 671	8 1ST AVE SE HWY 12 AND 12N 9 PO BOX 1748 409 SE 4TH AVENUE	ESE 0 - 1/8 (0.044 mi.) ENE 1/8 - 1/4 (0.129 mi.) NE 1/8 - 1/4 (0.176 mi.) ESE 1/4 - 1/2 (0.380 mi.)	3 11 13	9 14 15	

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health's UST Data (Facility & Owner Address of the Tanks Currently Recorded in North Dakota).

A review of the UST list, as provided by EDR, and dated 03/05/2012 has revealed that there are 16 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	/ Distance Map ID	
U S GOVERNMENT GSA	100 1ST STREET SW	0 - 1/8 (0.000 mi.)	1	7
MINOT LAUNDRY AND CLEANERS INC	200 1ST STREET SOUTHWES	SSW 0 - 1/8 (0.078 mi.)	4	10
NORTHERN STATES POWER COMPANY	24 SE 2ND AVENUE	SSE 0 - 1/8 (0.094 mi.)	A7	13
US WEST COMMUNICATIONS	201 SOUTH BROADWAY	SW 0 - 1/8 (0.096 mi.)	B8	13
SWEETHEART BAKERY	220 SOUTH BROADWAY	SW 0 - 1/8 (0.107 mi.)	B9	14
SWEETHEART BAKERYTRUCK SHOP	300 3RD STREET SW	SW 1/8 - 1/4 (0.167 mi.)	12	15
TRINITY HOSPITAL	BURDICK EXPRESSWAY AT N	//S 1/8 - 1/4 (0.198 mi.)	C14	16
M AND H GAS	25 EAST BURDICK EXPRESS	SSE 1/8 - 1/4 (0.208 mi.)	17	19
Lewer Flavetion	Adduses	Direction / Distance		_
Lower Elevation	Address	Direction / Distance	Map ID	Page
DEAVER OIL COMPANY	8 1ST AVE SE	ESE 0 - 1/8 (0.044 mi.)	<u>Мар</u> ID	Page 9
				
DEAVER OIL COMPANY	8 1ST AVE SE 10 SOUTH BROADWAY	ESE 0 - 1/8 (0.044 mi.)	3	9
DEAVER OIL COMPANY I KEATING INC	8 1ST AVE SE 10 SOUTH BROADWAY	ESE 0 - 1/8 (0.044 mi.) WNW 0 - 1/8 (0.080 mi.)	3 5	9 10
DEAVER OIL COMPANY I KEATING INC BURLINGTON NORTHERN RAILROAD C	8 1ST AVE SE 10 SOUTH BROADWAY MAIN & 1ST AVENUE NORTH	ESE 0 - 1/8 (0.044 mi.) WNW 0 - 1/8 (0.080 mi.) NNE 0 - 1/8 (0.112 mi.)	3 5 10	9 10 14
DEAVER OIL COMPANY I KEATING INC BURLINGTON NORTHERN RAILROAD C BNSF GAVIN YARD	8 1ST AVE SE 10 SOUTH BROADWAY MAIN & 1ST AVENUE NORTH HWY 12 AND 12N	ESE 0 - 1/8 (0.044 mi.) WNW 0 - 1/8 (0.080 mi.) NNE 0 - 1/8 (0.112 mi.) ENE 1/8 - 1/4 (0.129 mi.) NE 1/8 - 1/4 (0.176 mi.)	3 5 10 11	9 10 14 14
DEAVER OIL COMPANY I KEATING INC BURLINGTON NORTHERN RAILROAD C BNSF GAVIN YARD MINOT FARMERS ELEVATOR	8 1ST AVE SE 10 SOUTH BROADWAY MAIN & 1ST AVENUE NORTH HWY 12 AND 12N PO BOX 1748	ESE 0 - 1/8 (0.044 mi.) WNW 0 - 1/8 (0.080 mi.) NNE 0 - 1/8 (0.112 mi.) ENE 1/8 - 1/4 (0.129 mi.) NE 1/8 - 1/4 (0.176 mi.) E 1/8 - 1/4 (0.201 mi.)	3 5 10 11 13	9 10 14 14 15

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/15/2012 has revealed that there are 3 RCRA-NonGen sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
SHERWIN WILLIAMS CO	213 SOUTH MAIN ST	SSE 0 - 1/8 (0.093 mi.)	A6	10	
CARQUEST WESTERN AUTO	300 3RD AVE S.W.	SW 1/8 - 1/4 (0.209 mi.)	18	19	
Lower Elevation	Address	Direction / Distance	Map ID	Page	
BRAY'S CLEANERS	10 1ST ST NW	NNW 0 - 1/8 (0.007 mi.)	2	7	

MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the MINES list, as provided by EDR, and dated 08/18/2011 has revealed that there is 1 MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AGGREGATE CONSTRUCTION IN		SSW 1/8 - 1/4 (0.214 mi.)	19	21

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name Database(s)

MINOT WTP NPDES

NDSU RADIOACTIVE WASTE SITE CERCLIS-NFRAP

SOURIS RIVER - WEST MINOT CERCLIS-NFRAP

HARRIS EQUIPMENT INC LUST, UST

WALSH FARMS UST

WALSH FARMS
UST
FOLEY EQUIPMENT INC
UST
BUTLER MACHINERY CO - MINOT
NORTHERN STATES POWER CO - MINOT
MINOT CIVIC CENTER-CITY OF
FINDS,RCRA-NLR
FINDS,RCRA-NLR

NORTH DAKOTA HWY DEPT FINDS,RCRA-NLR,MANIFEST CHS PETROLEUM TERMINAL - MINOT FINDS,RCRA-CESQG

5125 HIGHWAY 2 AND 52 WEST
US HWY 83 / 9 MILES S OF MINOT
ERNS
10 MILES NORTH OFF OF HWY 2 (INTER
4 MI W. ON HWY 2 AND S2 MINOT TERM
MINOT MOBILE ESTATES
ERNS
FINDS

MINOT MOBILE ESTATES

MINOT MOBILE HOME SERVICE CENTER I

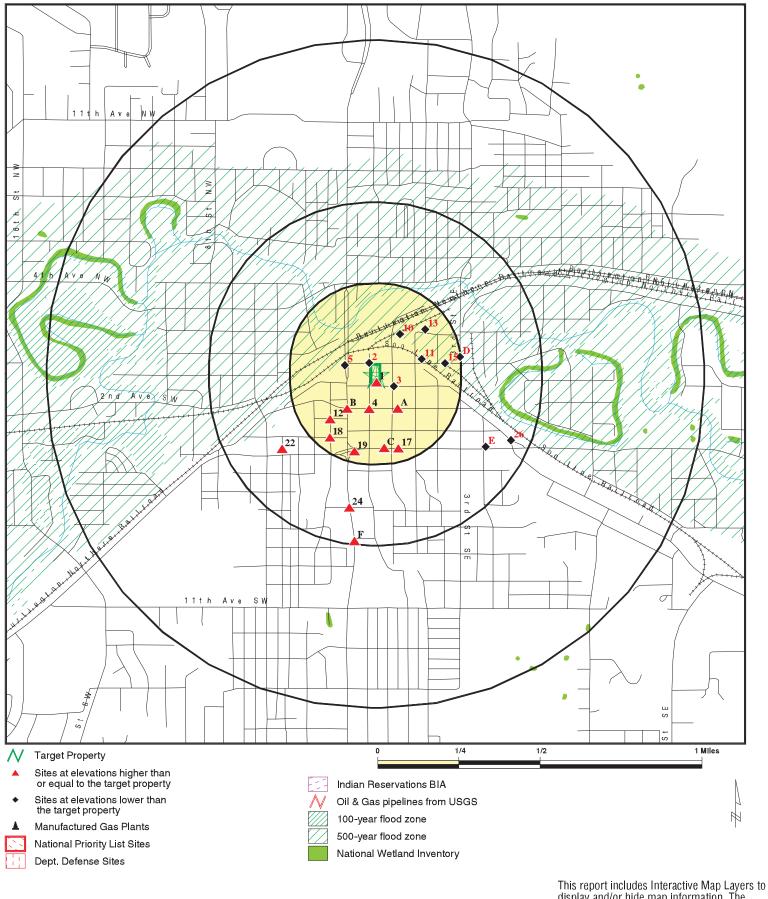
MINOT / CITY WELLS

FINDS

MINOT PARK DIST (BISON PLT) HIST FTTS INSP

MINOT PARK DIST (BISON PLT) FTTS

OVERVIEW MAP - 03344483.8r



this report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

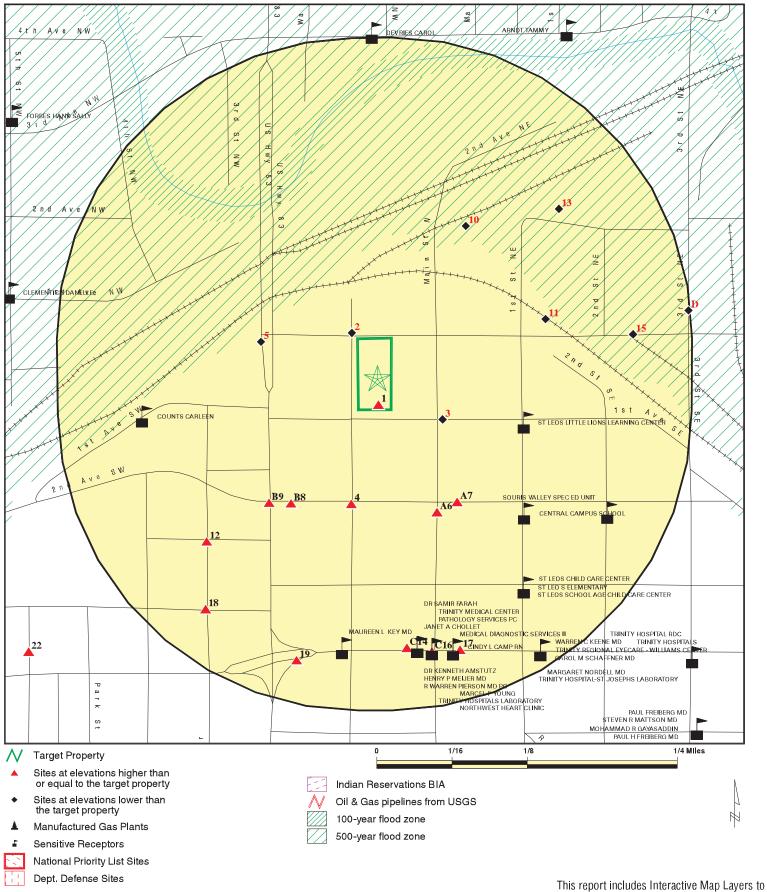
SITE NAME: Minot Site 2

ADDRESS: 1st Street SW/1st Avenue SW

Minot ND 58701 LAT/LONG: 48.2359 / 101.2941 CLIENT: TriMedia CONTACT: Derek Senn INQUIRY#: 03344483.8r

DATE: June 14, 2012 11:30 am

DETAIL MAP - 03344483.8r



this report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Minot Site 2

ADDRESS: 1st Street SW/1st Avenue SW

Minot ND 58701 LAT/LONG: 48.2359 / 101.2941 CLIENT: TriMedia CONTACT: Derek Senn INQUIRY#: 03344483.8r

DATE: June 14, 2012 11:32 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.500 1.000		0	0 0	0 0	NR 0	NR NR	0 0
Federal CERCLIS NFRAF	site List							
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACT	S facilities lis	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORF	RACTS TSD fa	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 1	NR NR NR	NR NR NR	NR NR NR	0 0 1
Federal institutional cont engineering controls reg								
US ENG CONTROLS US INST CONTROL	0.500 0.500		0 0	0	0	NR NR	NR NR	0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equival	lent CERCLIS	;						
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
State and tribal landfill an solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking s	torage tank li	sts						
LUST INDIAN LUST	0.500 0.500		2 0	3 0	7 0	NR NR	NR NR	12 0
State and tribal registere	d storage tan	k lists						
UST	0.250		8	8	NR	NR	NR	16

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST INDIAN UST FEMA UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institution control / engineering con								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary	cleanup sites	;						
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS							
<u></u>								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
DEBRIS REGION 9 ODI SWRCY INDIAN ODI	0.500 0.500 0.500 0.500		0 0 0	0 0 0 0	0 0 0	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US CDL CDL US HIST CDL	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
Local Land Records								
LIENS 2 LUCIS	TP 0.500		NR 0	NR 0	NR 0	NR NR	NR NR	0 0
Records of Emergency R	elease Report	s						
HMIRS SPILLS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Reco	ords							
RCRA-NonGen DOT OPS DOD FUDS CONSENT ROD UMTRA MINES TRIS	0.250 TP 1.000 1.000 1.000 1.000 0.500 0.250		2 NR 0 0 0 0 0 0 NR	1 NR 0 0 0 0 0 1 NR	NR NR 0 0 0 0 NR NR	NR NR 0 0 0 NR NR NR	NR NR NR NR NR NR NR	3 0 0 0 0 0 0 1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
2020 CORRECTIVE ACTI	ON0.250		0	0	NR	NR	NR	0
EDR PROPRIETARY RECOR	RDS							
EDR Proprietary Records	s							
Manufactured Gas Plants	1.000		0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

1 **U S GOVERNMENT GSA** UST U003542359 100 1ST STREET SW N/A

< 1/8 MINOT, ND 58701

1 ft.

UST:

Relative: Higher

Facility ID: 2247 Facility Phone: Not reported Latitude: 48.2352810 Longitude: -101.29463

Actual: 1597 ft.

Owner Name: U S GOVERNMENT GSA Owner Address: 220 EAST ROSSER Owner City, St, Zip: BISMARCK, ND 58501

Facility Status: Inactive

BRAY'S CLEANERS 2 RCRA-NonGen 1004747515 NNW **10 1ST ST NW FINDS** NDD064776099 MINOT, ND 58703

< 1/8 0.007 mi. 36 ft.

RCRA-NonGen: Relative:

Date form received by agency: 01/22/2004 Lower

Facility name: **BRAY'S CLEANERS** Facility address: 10 1ST ST NW

Actual: 1578 ft.

MINOT, ND 58703-3160

EPA ID: NDD064776099

Mailing address: PO BOX 657

MINOT, ND 587020657

Contact: **CLAYTON J JOHNSON**

Contact address: PO BOX 657

MINOT, ND 587020657

Contact country: US

(701) 852-1011 Contact telephone: Contact email: Not reported EPA Region: 80 Land type: Private

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: **CLAYTON JOHNSON**

Owner/operator address: 1ST ST NW

MINOT, ND 58703

Owner/operator country: US

Owner/operator telephone: (701) 852-1011

Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 04/01/1981 Owner/Op end date: Not reported

Owner/operator name: **CLAYTON JOHNSON**

Owner/operator address: 1ST ST NW

MINOT, ND 58703

Owner/operator country: US

Owner/operator telephone: (701) 852-1011

Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 04/01/1981

Direction Distance

Elevation Site Database(s) EPA ID Number

BRAY'S CLEANERS (Continued)

1004747515

EDR ID Number

Handler Activities Summary:

Owner/Op end date:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: Nο Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 12/26/1986

Facility name: BRAY'S CLEANERS

Classification: Conditionally Exempt Small Quantity Generator

Not reported

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D007 Waste name: CHROMIUM

Waste code: D039

Waste name: TETRACHLOROETHYLENE

Waste code: D040

Waste name: TRICHLOROETHYLENE

Waste code: F002

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BRAY'S CLEANERS (Continued)

1004747515

Evaluation Action Summary:

Evaluation date: 05/21/2008

COMPLIANCE EVALUATION INSPECTION ON-SITE Evaluation:

Area of violation: Not reported Date achieved compliance: Not reported Evaluation lead agency: State

FINDS:

Registry ID: 110004064529

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

North Dakota Facility Profile (ND-FP) contains facility based, environmental information for the State of North Dakota.

3 **DEAVER OIL COMPANY** LUST U004150477 **ESE** 8 1ST AVE SE **UST** N/A

< 1/8 BERTHOLD, ND 58718

0.044 mi. 230 ft.

LUST: Relative:

Facility ID: 435 Lower

Facility Status: Site Cleanup Completed Actual:

Facility Latitude: 48.312258 1590 ft. Facility Longitude: -101.73669

Status Date: 06/27/1991 Event ID: 435

Owner Name: DEAVER OIL COMPANY

Owner Address: **BOX 187**

Owner City, St, Zip: BERTHOLD, ND 58718

UST:

435 Facility ID:

Facility Phone: Not reported Latitude: 48.3122589 Longitude: -101.73669

DEAVER OIL COMPANY Owner Name: Owner Address: BOX 187

Owner City, St, Zip: BERTHOLD, ND 58718

Facility Status: Inactive

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MINOT LAUNDRY AND CLEANERS INC LUST U003542357 SSW UST N/A

200 1ST STREET SOUTHWEST < 1/8 MINOT, ND 58701

0.078 mi. 414 ft.

LUST: Relative:

2222 Higher Facility ID:

Facility Status: Site Cleanup Completed Actual: Facility Latitude:

48.234282 1613 ft. Facility Longitude: -101.29462 Status Date: 07/17/1993

Event ID: 2222

Owner Name: MINOT LAUNDRY AND CLEANERS INC

200 SW 1ST STREET Owner Address: Owner City,St,Zip: MINOT, ND 58701

UST:

Facility ID: 2222 Facility Phone: Not reported Latitude: 48.2342829 -101.29462 Longitude:

Owner Name: MINOT LAUNDRY AND CLEANERS INC

Owner Address: 200 SW 1ST STREET Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

I KEATING INC UST U003036435 N/A

WNW **10 SOUTH BROADWAY** < 1/8 MINOT, ND 58701

0.080 mi. 424 ft.

UST: Relative:

4422 Facility ID: Lower

Facility Phone: Not reported Actual: Latitude: 48.236314 1589 ft. Longitude: -101.29622

I KEATING INC Owner Name: Owner Address: 10 SOUTH BROADWAY Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

SHERWIN WILLIAMS CO 1000371357 **A6** RCRA-NonGen SSE 213 SOUTH MAIN ST **FINDS** NDD000690636

< 1/8 MINOT, ND 58701

0.093 mi.

493 ft. Site 1 of 2 in cluster A

RCRA-NonGen: Relative: Date form received by agency: 08/18/1980 Higher

Facility name: SHERWIN WILLIAMS CO Actual:

Facility address: 213 SOUTH MAIN ST 1617 ft. MINOT, ND 58701

EPA ID: NDD000690636 Mailing address: SOUTH MAIN ST MINOT, ND 58701 Contact:

H.B. WILLIAMS JR.

Direction Distance

EDR ID Number Elevation **EPA ID Number** Site Database(s)

SHERWIN WILLIAMS CO (Continued)

1000371357

Contact address: 213 SOUTH MAIN ST MINOT, ND 58701

US Contact country:

(216) 566-3096 Contact telephone: Contact email: Not reported

EPA Region: 08

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): Nο Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

Waste code: D000 Waste name: Not Defined

Waste code: D001

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS Waste name:

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

> NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE

OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: F002

Direction Distance Elevation

ation Site Database(s) EPA ID Number

SHERWIN WILLIAMS CO (Continued)

1000371357

EDR ID Number

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED
SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR
MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U002

Waste name: ACETONE (I)

Waste code: U031

Waste name: 1-BUTANOL (I)

Waste code: U112

Waste name: ACETIC ACID ETHYL ESTER (I)

Waste code: U150

Waste name: MELPHALAN

Waste code: U154

Waste name: METHANOL (I)

Waste code: U159

Waste name: 2-BUTANONE (I,T)

Waste code: U161

Waste name: METHYL ISOBUTYL KETONE (I)

Waste code: U220

Waste name: BENZENE, METHYL-

Waste code: U239

Waste name: BENZENE, DIMETHYL- (I,T)

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SHERWIN WILLIAMS CO (Continued)

1000371357

Violation Status: No violations found

FINDS:

Registry ID: 110004063423

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

Α7 **NORTHERN STATES POWER COMPANY**

U003036501

N/A

N/A

SSE 24 SE 2ND AVENUE < 1/8 MINOT, ND 58701

0.094 mi.

Site 2 of 2 in cluster A 498 ft.

Relative:

Facility ID: 2890 Higher

Facility Phone: Not reported Actual: Latitude: 48.2342480 1608 ft. -101.29257 Longitude:

> Owner Name: NSP MINNESOTA DBA XCEL ENERGY

Owner Address: 414 NICOLLET MALL (MP7) Owner City, St, Zip: MINNEAPOLIS, MN 55401-1993

Facility Status: Inactive

В8 **US WEST COMMUNICATIONS** UST U003036537

< 1/8 MINOT, ND 58701

0.096 mi.

SW

Site 1 of 2 in cluster B 507 ft.

Relative:

UST: Facility ID: 1930 Higher Facility Phone: Not reported Actual: 48.2349370 Latitude: 1610 ft. Longitude: -101.29586

201 SOUTH BROADWAY

Owner Name: R E WALSTAD Owner Address: 2512 BELAIR DRIVE Owner City, St, Zip: MINOT, ND 58702

Facility Status: Inactive

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

B9 SWEETHEART BAKERY UST U003036525 N/A

SW 220 SOUTH BROADWAY < 1/8 MINOT, ND 58701

0.107 mi.

566 ft. Site 2 of 2 in cluster B

UST: Relative:

Facility ID: 495 Higher

Facility Phone: Not reported Actual: Latitude: 48.2345499 1609 ft. Longitude: -101.29608

> Owner Name: INTERSTATE BRANDS CORPORATION

Owner Address: 220 SOUTH BROADWAY Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

U003301404 10 **BURLINGTON NORTHERN RAILROAD COMPANY** UST N/A

NNE **MAIN & 1ST AVENUE NORTH**

< 1/8 MINOT, ND 58701

0.112 mi. 591 ft.

UST: Relative:

Facility ID: 1216 Lower

Facility Phone: Not reported Actual: Latitude: Not reported 1564 ft. Longitude: Not reported

> BURLINGTON NORTHERN AND SANTA FE RAILROAD COMPANY Owner Name:

Owner Address: 511 2ND AVENUE SE Owner City, St, Zip: DILWORTH, MN 56529

Facility Status: Inactive

U003301403 11 **BNSF GAVIN YARD** LUST **ENE HWY 12 AND 12N** UST N/A

1/8-1/4 0.129 mi. 682 ft.

LUST: Relative:

Facility ID: 1215 Lower

MINOT, ND 58701

Facility Status: Site Cleanup Completed

Actual: Facility Latitude: Not reported 1560 ft. Facility Longitude: Not reported Status Date: 11/01/1990

Event ID: 1215 Owner Name: BNSF RAILWAY CO.

Owner Address: 300 1ST ST SW Owner City, St, Zip: MANDAN, ND 58554

Facility ID: 1215

Facility Status: Site Investigation Continuing

Facility Latitude: Not reported Facility Longitude: Not reported Status Date: 03/01/2007 Event ID: 1215-1

Owner Name: BNSF RAILWAY CO. Owner Address: 300 1ST ST SW Owner City,St,Zip: MANDAN, ND 58554

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BNSF GAVIN YARD (Continued)

U003301403

UST:

Facility ID: 1215 Facility Phone: 7018576636 Latitude: Not reported Longitude: Not reported BNSF RAILWAY CO. Owner Name:

Owner Address: 300 1ST ST SW Owner City, St, Zip: MANDAN, ND 58554

Facility Status: Active

12 SWEETHEART BAKERYTRUCK SHOP

UST U003036526 N/A

SW 300 3RD STREET SW 1/8-1/4 MINOT, ND 58701

0.167 mi. 882 ft.

UST: Relative:

Facility ID: 3003 Higher

Facility Phone: Not reported Actual: Latitude: 48.2330200 1621 ft. Longitude: -101.29716

> INTERSTATE BRANDS CORPORATION Owner Name:

Owner Address: 220 SOUTH BROADWAY Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

LUST U003036467

13 MINOT FARMERS ELEVATOR NE **PO BOX 1748**

1/8-1/4 MINOT, ND 58702

0.176 mi. 929 ft.

LUST: Relative: Facility ID: 5122 Lower

Facility Status: Site Cleanup Completed

Actual: Facility Latitude: 48.237743 1560 ft. Facility Longitude: -101.28947 Status Date: 11/03/2004

Event ID: 5122

Owner Name: MINOT FARMERS ELEVATOR Owner Address: 115 NE 1ST AVENUE

MINOT, ND 58702 Owner City,St,Zip:

UST:

Facility ID: 5122 Facility Phone: Not reported Latitude: 48.2377439 Longitude: -101.28947

MINOT FARMERS ELEVATOR Owner Name: Owner Address: 115 NE 1ST AVENUE

Owner City, St, Zip: MINOT, ND 58702

Facility Status: Active UST

N/A

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

C14 TRINITY HOSPITAL UST U003036531

BURDICK EXPRESSWAY AT MAIN STREET

1/8-1/4 MINOT, ND 58701

0.198 mi.

South

1048 ft. Site 1 of 2 in cluster C

Relative: UST:

Higher Facility ID: 2272

Facility Phone: 7018575145

Actual: Latitude: 48.2319469

1631 ft. Longitude: -101.29432

Owner Name: TRINITY MEDICAL CENTER

Owner Address: BURDICK EXPRESSWAY AT MAIN STREET

Owner City, St, Zip: MINOT, ND 58701

Facility Status: Active

15 FARMERS UNION OIL COMPANY UST U003036410
East 215 EAST CENTRAL AVENUE N/A

East 215 EAST CENTRAL AV 1/8-1/4 MINOT, ND 58701

0.201 mi. 1061 ft.

Relative: UST:

Lower Facility ID: 2923

 Actual:
 Latitude:
 48.2367500

 1560 ft.
 Longitude:
 -101.28866

Owner Name: FARMERS UNION OIL COMPANY

Owner Address: DRAWER F Owner City,St,Zip:MINOT, ND 58701

Facility Status: Active

C16 TRINITY HOSPITAL RCRA-CESQG 1004747520 SSE 1 BURDICK EXPRESSWAY W FINDS NDD071762694

SSE 1 BURDICK EXPRESSWAY W 1/8-1/4 MINOT, ND 58701

0.204 mi.

1075 ft. Site 2 of 2 in cluster C

Relative: RCRA-CESQG:

Higher Date form received by agency: 12/22/1988

Facility name: TRINITY HOSPITAL

Actual: Facility address: 1 BURDICK EXPRESSWAY W

1630 ft.

MINOT, ND 58701 EPA ID: NDD071762694

Mailing address: NDD0/1/62694
PO BOX 5020

MINOT, ND 587025020
Contact: DAVID DANIELSON
Contact address: PO BOX 5020

MINOT, ND 587025020

Contact country: US

Contact telephone: (701) 857-5145 Contact email: Not reported

EPA Region: 08 Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar

N/A

Direction Distance Elevation

Site Database(s) EPA ID Number

TRINITY HOSPITAL (Continued)

1004747520

EDR ID Number

month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: COMMUNITY HOSPITAL
Owner/operator address: DATA NOT REQUESTED

DATA NOT REQUESTED, ND 99999

Owner/operator country: Not reported
Owner/operator telephone: (999) 999-9999
Legal status: Private
Owner/Operator Type: Owner

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

Waste code: D000
Waste name: Not Defined

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES

Map ID MAP FINDINGS
Direction

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

TRINITY HOSPITAL (Continued)

1004747520

WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 12/26/2002

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

FINDS:

Registry ID: 110004064734

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

North Dakota Facility Profile (ND-FP) contains facility based, environmental information for the State of North Dakota.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

17 M AND H GAS LUST U003036451 UST N/A

25 EAST BURDICK EXPRESSWAY SSE 1/8-1/4 MINOT, ND 58701

0.208 mi. 1097 ft.

LUST: Relative:

Facility ID: 1467 Higher

Facility Status: Site Cleanup Completed

Actual: Facility Latitude: 48.232398 1628 ft. Facility Longitude: -101.29261 Status Date: 09/17/1993

Event ID: 1467

Owner Name: MILLER AND HOLMES INC. 2311 ONEIL ROAD Owner Address: Owner City,St,Zip: HUDSON, WI 54016

Facility ID: 1467

Facility Status: Site Cleanup Completed

Facility Latitude: 48.232398 Facility Longitude: -101.29261 Status Date: 12/28/2010 Event ID: 1467-2

MILLER AND HOLMES INC. Owner Name: Owner Address: 2311 ONEIL ROAD Owner City, St, Zip: HUDSON, WI 54016

UST:

Facility ID: 1467 Facility Phone: 7018522924 Latitude: 48.2323980 Longitude: -101.29261

Owner Name: MILLER AND HOLMES INC. Owner Address: 2311 ONEIL ROAD Owner City, St, Zip: HUDSON, WI 54016

Facility Status: Active

18 **CARQUEST WESTERN AUTO** SW 300 3RD AVE S.W. 1/8-1/4 MINOT, ND 58701

0.209 mi. 1103 ft.

RCRA-NonGen: Relative:

Date form received by agency: 05/25/1990 Higher

CARQUEST WESTERN AUTO Facility name: Actual: Facility address: 300 3RD AVE S.W.

1624 ft. MINOT, ND 58701

EPA ID: NDD031856503 Mailing address: PO BOX 1239 MINOT, ND 58702 Contact: LARRY DOVE

Contact address: PO BOX 1239 MINOT, ND 58702

Contact country: US

Contact telephone: (701) 852-1381 Contact email: Not reported

EPA Region: 80

Classification: Non-Generator

TC03344483.8r Page 19

RCRA-NonGen 1004747510

NDD031856503

FINDS

Direction Distance Elevation

e EDR ID Number on Site Database(s) EPA ID Number

CARQUEST WESTERN AUTO (Continued)

1004747510

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: WESTERN AUTO PARTS CORP.

Owner/operator address: DATA NOT REQUESTED

DATA NOT REQUESTED, ND 99999

Owner/operator country: Not reported
Owner/operator telephone: (999) 999-9999

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: Nο Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Hazardous Waste Summary:

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D004
Waste name: ARSENIC

Waste code: D005 Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007

Waste name: CHROMIUM

Waste code: D008 Waste name: LEAD

Waste code: D009

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CARQUEST WESTERN AUTO (Continued)

1004747510

Waste name: **MERCURY**

Waste code: D010 Waste name: SELENIUM

D011 Waste code: Waste name: SILVER

Violation Status: No violations found

FINDS:

Registry ID: 110004064173

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

19 AGGREGATE CONSTRUCTION IN ssw

1011200293 MINES

N/A

1/8-1/4 0.214 mi. 1132 ft.

WARD (County), ND

MINES: Relative: Higher

Mine ID:

SIC code(s): 14410 00000 00000 00000 00000 00000 Actual: Entity name: **RENTAL-1**

1628 ft.

AGGREGATE CONSTRUCTION IN Company: State FIPS code: 38

3200791

County FIPS code: 101 Status:

20090429 Status date: Operation Class: non-Coal Mining

Number of shops: 0 Number of plants: Latitude: 48 13 57 101 17 44 Longitude:

Violations Details:

Violation Number: 7938159 Mine Name: Rental-1 10/25/2005 Date Issued: Address Type: MineLocation Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported Robert E Cogdill Controller Name:

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009

Direction Distance Elevation

ation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Action Type: 104(a) 10/25/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 99.00 Paid Penalty: 69.30 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 69.30 Year: 2005

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7938160
Mine Name: Rental-1
Date Issued: 10/25/2005
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 10/25/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 42.00 Assessment Status code: Closed Assess. Case Status code: Proposed 42.00 Assessment Amount:

Minot, ND 58702

2005

County Name: Ward P.O. Box: Not reported

Year:

Violation Number: 6328584
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001
Mine Type: Surface
Mine Status: Intermittent
Status Date: 04/29/2009
Action Type: 104(a)
Date Abated: 05/15/2009
Citation/Order: Citation

Direction Distance

Elevation Site Database(s) **EPA ID Number**

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Sig and Sub Designation: N 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed 100.00 Assessment Amount: 2009 Year:

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

6328585 Violation Number: Mine Name: Rental-1 Date Issued: 05/14/2009 Address Type: MineLocation Address: Portable

Aggregate Construction Inc Operator:

Contractor ID: Not reported Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 05/14/2009 Citation/Order: Citation Sig and Sub Designation:

Proposed Penalty: 362.00 Paid Penalty: 362.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 362.00 Year: 2009

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 6328586 Mine Name: Rental-1 Date Issued: 05/14/2009 Address Type: MineLocation Address: Portable

Aggregate Construction Inc Operator:

Contractor ID: Not reported Robert E Cogdill Controller Name:

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 05/28/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2009

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 6328587
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 05/21/2009 Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 243.00

Proposed Penalty: 243.00
Paid Penalty: 121.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 121.00
Year: 2009

Minot, ND 58702

County Name: Ward
P.O. Box: Not reported

Violation Number: 6328588
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

100.00

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 05/21/2009 Citation/Order: Citation Sig and Sub Designation: 100.00 Proposed Penalty: Paid Penalty: 100.00 Assessment Status code: Closed

Assess. Case Status code: Proposed

Assessment Amount:

Direction Distance

Elevation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Year: 2009

Minot, ND 58702
County Name: Ward
P.O. Box: Not reported

Violation Number: 6328589
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent 04/29/2009 Status Date: Action Type: 104(a) 05/15/2009 Date Abated: Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 100.00 Paid Penalty: 100.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 100.00 Year: 2009

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 6328590
Mine Name: Rental-1
Date Issued: 05/14/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent 04/29/2009 Status Date: Action Type: 104(a) Date Abated: 05/14/2009 Citation/Order: Citation Sig and Sub Designation: N Proposed Penalty: 100.00 100.00

Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2009

Minot, ND 58702

County Name: Ward

Direction Distance

Elevation Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

P.O. Box: Not reported

Violation Number: 6329075
Mine Name: Rental-1
Date Issued: 12/16/2009
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001
Mine Type: Surface
Mine Status: Intermittent
Status Date: 04/29/2009
Action Type: 104(a)
Date Abated: 12/16/2009
Citation/Order: Citation
Sig and Sub Designation: N

Proposed Penalty: Not reported Paid Penalty: Not reported Assessment Status code: Not reported Assess. Case Status code: Not reported Assessment Amount: Not reported Year: 2009

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7939682
Mine Name: Rental-1
Date Issued: 11/07/2006
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 11/07/2006 Date Abated: Citation Citation/Order: Sig and Sub Designation: Proposed Penalty: 60.00 Paid Penalty: 60.00 Closed Assessment Status code: Assess. Case Status code: Proposed 60.00 Assessment Amount: Year: 2006

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7939683

Direction Distance

Elevation Site Database(s) **EPA ID Number**

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Mine Name: Rental-1 11/07/2006 Date Issued: Address Type: MineLocation Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

Ownership Date: 06/01/2001 Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 11/07/2006 Citation/Order: Citation Sig and Sub Designation: 60.00 Proposed Penalty: 60.00 Paid Penalty: Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 60.00 Year: 2006

Minot. ND 58702

County Name: Ward

P.O. Box: Not reported

Violation Number: 7939684 Mine Name: Rental-1 Date Issued: 11/07/2006 Address Type: MineLocation Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

06/01/2001

Ownership Date: Surface Mine Type: Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 12/21/2006 Date Abated: Citation/Order: Citation Sig and Sub Designation: 60.00 Proposed Penalty: Paid Penalty: 60.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 60.00 Year: 2006

Minot, ND 58702

County Name: Ward

P.O. Box: Not reported

7939411 Violation Number: Mine Name: Rental-1 Date Issued: 06/21/2005 Address Type: MineLocation

Direction Distance Elevation

on Site Database(s) EPA ID Number

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

EDR ID Number

Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) Date Abated: 07/12/2005 Citation/Order: Citation Sig and Sub Designation: Ν Proposed Penalty: 60.00 Paid Penalty: 48.00 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 48.00 Year: 2005

Minot, ND 58702

County Name: Ward

P.O. Box: Not reported

Violation Number: 7939412
Mine Name: Rental-1
Date Issued: 06/21/2005
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported
Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel Ownership Date: 06/01/2001

Mine Type: Surface Mine Status: Intermittent 04/29/2009 Status Date: Action Type: 104(a) 07/12/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Υ Proposed Penalty: 124.00 Paid Penalty: 91.40 Assessment Status code: Closed Assess. Case Status code: Proposed 91.40 Assessment Amount: 2005 Year:

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7939413
Mine Name: Rental-1
Date Issued: 06/21/2005
Address Type: MineLocation
Address: Portable

Operator: Aggregate Construction Inc

Contractor ID: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 07/12/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Proposed Penalty: 124.00 Paid Penalty: 91.40 Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 91.40 Year: 2005

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

Violation Number: 7939414 Mine Name: Rental-1 Date Issued: 06/21/2005 Address Type: MineLocation Address: Portable

Aggregate Construction Inc Operator:

Contractor ID: Not reported Controller Name: Robert E Cogdill

Construction Sand and Gravel Mined Material:

06/01/2001 Ownership Date: Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 07/12/2005 Date Abated: Citation Citation/Order: Sig and Sub Designation: Proposed Penalty: 60.00 48.00 Paid Penalty: Assessment Status code: Closed Assess. Case Status code: Proposed Assessment Amount: 48.00 Year: 2005

Minot, ND 58702

County Name: Ward P.O. Box: Not reported

7939415 Violation Number: Mine Name: Rental-1 Date Issued: 06/21/2005 Address Type: MineLocation Address: Portable

Aggregate Construction Inc Operator:

Contractor ID: Not reported Controller Name: Robert E Cogdill

Mined Material: Construction Sand and Gravel

Ownership Date: 06/01/2001

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AGGREGATE CONSTRUCTION IN (Continued)

1011200293

UST U003036416

N/A

Mine Type: Surface Mine Status: Intermittent Status Date: 04/29/2009 Action Type: 104(a) 07/12/2005 Date Abated: Citation/Order: Citation Sig and Sub Designation: Υ Proposed Penalty: 124.00 Paid Penalty: 99.20 Assessment Status code: Closed Assess. Case Status code: Proposed 99.20

2005 Year: Minot, ND 58702

Assessment Amount:

County Name: Ward P.O. Box: Not reported

D20 FIRESTONE STORE OF MINOT **ENE 301 EAST CENTRAL AVENUE**

MINOT, ND 58701 1/8-1/4 0.247 mi.

1306 ft. Site 1 of 2 in cluster D

UST: Relative:

Facility ID: 393 Lower

Facility Phone: 7018523385 Actual: Latitude: 48.2364809 1556 ft. Longitude: -101.28782

FIRESTONE TIRE AND RUBBER COMPANY Owner Name:

Owner Address: 1200 FIRESTONE PARKWAY

Owner City, St, Zip: AKRON, OH 44317

Facility Status: Active

D21 **BRIDGEMAN CREAMERY** UST U003036379 N/A

ENE 23-27 3RD ST NE MINOT, ND 58701 1/8-1/4

0.248 mi.

1310 ft. Site 2 of 2 in cluster D

UST: Relative:

Facility ID: 394 Lower

Facility Phone: Not reported Actual: Latitude: Not reported 1556 ft. Longitude: Not reported

> **BRIDGEMAN CREAMERY** Owner Name: Owner Address: 23-27 NE 3RD STREET Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

Direction Distance

Elevation Site Database(s) EPA ID Number

 22
 RENT A WRECK
 LUST U003301518

 SW
 529 BURDICK EXPRESSWAY
 UST N/A

1/4-1/2 MINOT, ND 58701

0.340 mi. 1796 ft.

Relative: LUST:

Higher Facility ID: 629

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 46.912599

 1615 ft.
 Facility Longitude:
 -98.710363

 Status Date:
 10/03/1997

Status Date: 10/03/1997 Event ID: 629

Owner Name: JOE MITZEL

Owner Address: 731 SW 19TH AVENUE
Owner City,St,Zip: MINOT, ND 58701

UST:

Facility ID: 629

Facility Phone: 7018380098 Latitude: 46.9125999 Longitude: -98.710363 Owner Name: JOE MITZEL

Owner Address: 731 SW 19TH AVENUE Owner City, St, Zip: MINOT, ND 58701

Facility Status: Inactive

E23 MINI MART 671 LUST U003036463 ESE 409 SE 4TH AVENUE UST N/A

1/4-1/2 0.380 mi.

2006 ft. Site 1 of 2 in cluster E

MINOT, ND 58701

Relative: LUST:

Lower Facility ID: 1791

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.233947

 1579 ft.
 Facility Longitude:
 -101.13904

 Status Date:
 09/26/1996

Status Date: 09/26/1996 Event ID: 1791

Owner Name: LOAF 'N JUG\MINI MART INC Owner Address: 442 KEELER PARKWAY Owner City,St,Zip: PUEBLO, CO 81001

UST:

Facility ID: 1791
Facility Phone: 7018521563
Latitude: 48.2339470
Longitude: -101.13904

Owner Name: LOAF 'N JUG\\MINI MART INC Owner Address: 442 KEELER PARKWAY Owner City,St,Zip:PUEBLO, CO 81001

Facility Status: Active

EDR ID Number

Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

24 HOLIDAY STATION STORE 110 LUST U003036434 SSW 700 NORTH BROADWAY UST N/A

BLOOMINGTON, MN 55437

1/4-1/2 MINOT, ND 58701

0.388 mi. 2047 ft.

Relative: LUST:

Higher Facility ID: 1033

Owner City,St,Zip:

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.243319

 1643 ft.
 Facility Longitude:
 -101.29555

 Status Date:
 04/08/2000

Event ID: 1033
Owner Name: CASS OIL COMPANY
Owner Address: 4567 AMERICAN BLVD W

UST:

Facility ID: 1033
Facility Phone: 7018528125
Latitude: 48.243319
Longitude: -101.29555

Owner Name: CASS OIL COMPANY
Owner Address: 4567 AMERICAN BLVD W
Owner City,St,Zip:BLOOMINGTON, MN 55437

Facility Status: Inactive

E25 NORTH DAKOTA CONCRETE PRODUCTS LUST U003036496 SE 5TH AVENUE AND 4TH ST NE UST N/A

1/4-1/2 MINOT, ND 58701

0.391 mi.

2064 ft. Site 2 of 2 in cluster E

Relative: LUST:

Lower Facility ID: 1828

Facility Status: Site Cleanup Completed

Actual: Facility Latitude: Not reported
1586 ft. Facility Longitude: Not reported
Status Date: 09/22/1989

Status Date: 09/22/198
Event ID: 1828

Owner Name: NORTH DAKOTA CONCRETE PRODUCTS

Owner Address: BOX 815

Owner City,St,Zip: BISMARCK, ND 58502

UST:

Facility ID: 1828
Facility Phone: Not reported
Latitude: Not reported
Longitude: Not reported

Owner Name: NORTH DAKOTA CONCRETE PRODUCTS

Owner Address: BOX 815

Owner City, St, Zip: BISMARCK, ND 58502

Facility Status: Inactive

Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

26 AMOCO SS 8643 LUST U003177262 ESE 300 SE 5TH ST UST N/A

1/4-1/2 MINOT, ND 58701

0.440 mi. 2325 ft.

Relative: LUST:

Lower Facility ID: 1348

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.233032

 1565 ft.
 Facility Longitude:
 -101.28519

 Status Date:
 05/06/1993

 Event ID:
 1348

Owner Name: BP AMOCO MAINTENANCE DEPARTMENT TWIN CITIES TERMIN

Owner Address: 2299 W COUNTY ROAD C
Owner City,St,Zip: ROSEVILLE, MN 55113

UST:

Facility ID: 1348
Facility Phone: Not reported
Latitude: 48.2330329
Longitude: -101.28519

Owner Name: BP AMOCO MAINTENANCE DEPARTMENT TWIN CITIES TERMIN

Owner Address: 2299 W COUNTY ROAD C Owner City, St, Zip: ROSEVILLE, MN 55113

Facility Status: Inactive

F27 MINI MART 673 LUST U003036465 South 810 NORTH BROADWAY UST N/A

1/4-1/2 MINOT, ND 58701

0.488 mi.

2577 ft. Site 1 of 2 in cluster F

Relative: LUST:

Higher Facility ID: 640

Facility Status: Site Investigation Continuing

 Actual:
 Facility Latitude:
 48.244427

 1673 ft.
 Facility Longitude:
 -101.29594

 Status Date:
 01/06/2006

Event ID: 640

Owner Name: LOAF 'N JUG\\MINI MART INC
Owner Address: 442 KEELER PARKWAY
Owner City,St,Zip: PUEBLO, CO 81001

UST:

Facility ID: 640
Facility Phone: 7018526194
Latitude: 48.2444270
Longitude: -101.29594

Owner Name: LOAF 'N JUG\\MINI MART INC Owner Address: 442 KEELER PARKWAY Owner City,St,Zip:PUEBLO, CO 81001

Facility Status: Active

Map ID MAP FINDINGS

Direction Distance

Distance EDR ID Number
Elevation Site EDA ID Number

F28 CAMPUS TEXACO LUST U003036384
South 815 NORTH BROADWAY UST N/A

1/4-1/2 MINOT, ND 58701

0.490 mi.

2585 ft. Site 2 of 2 in cluster F

Relative: LUST:

Higher

Facility ID: 6185

Facility Status: Site Cleanup Completed

 Actual:
 Facility Latitude:
 48.244450

 1674 ft.
 Facility Longitude:
 -101.29618

 Status Date:
 05/07/1993

Event ID: 6185

Owner Name: PAUL DAMBERGER
Owner Address: 21 SE 2ND AVENUE
Owner City,St,Zip: MINOT, ND 58701

UST:

Facility ID: 6185
Facility Phone: Not reported
Latitude: 48.2444509
Longitude: -101.29618

Owner Name: PAUL DAMBERGER
Owner Address: 21 SE 2ND AVENUE
Owner City,St,Zip:MINOT, ND 58701

Facility Status: Inactive

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/08/2012 Source: EPA
Date Data Arrived at EDR: 05/10/2012 Telephone: N/A

Number of Days to Update: 5 Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/30/2012 Source: EPA
Date Data Arrived at EDR: 04/05/2012 Telephone: N/A

Number of Days to Update: 40 Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/30/2012 Date Data Arrived at EDR: 04/05/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 40

Source: EPA Telephone: N/A

Last EDR Contact: 04/05/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011 Date Data Arrived at EDR: 02/27/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 14

Source: EPA Telephone: 703-412-9810

Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010 Date Data Arrived at EDR: 01/11/2011 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 04/12/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011 Date Data Arrived at EDR: 02/27/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 14

Source: EPA Telephone: 703-412-9810 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/19/2011 Date Data Arrived at EDR: 08/31/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 132

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/02/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 72

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012

Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Landfills/Special Use Landfills

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/01/2012 Date Data Arrived at EDR: 04/17/2012 Date Made Active in Reports: 05/29/2012

Number of Days to Update: 42

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 04/12/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/05/2012 Date Data Arrived at EDR: 03/07/2012 Date Made Active in Reports: 04/05/2012

Number of Days to Update: 29

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 06/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 103

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/14/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Data

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/05/2012 Date Data Arrived at EDR: 03/07/2012 Date Made Active in Reports: 04/05/2012

Number of Days to Update: 29

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 06/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Listing Registered Aboveground Storage Tanks.

Date of Government Version: 04/30/2012 Date Data Arrived at EDR: 05/02/2012 Date Made Active in Reports: 05/29/2012

Number of Days to Update: 27

Source: Department of Insurance Telephone: 701-328-3246 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 103

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 34

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/28/2012 Date Data Arrived at EDR: 02/29/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 76

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/28/2011 Date Data Arrived at EDR: 11/29/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 42

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Land Use Controls Listing

Land-Use Controls (LUCs) are defined broadly as legal measures that limit human exposure by restricting activity, use, and access to properties with residual contamination.

Date of Government Version: 09/09/2011 Date Data Arrived at EDR: 09/09/2011 Date Made Active in Reports: 10/13/2011

Number of Days to Update: 34

Source: Department of Health Telephone: 701-328-5158 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 02/17/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 42

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: List of Brownfields Sites

The concept of the Brownfields Program is to take contaminated or potentially contaminated, underdeveloped, unproductive property and convert it into productive real estate. Brownfield sites are defined as abandoned, idled or underused industrial or commercial properties whose redevelopment is complicated by real or perceived environmental contamination.

Date of Government Version: 01/01/2012 Date Data Arrived at EDR: 02/29/2012 Date Made Active in Reports: 04/05/2012

Number of Days to Update: 36

Source: Department of Health Telephone: 701-328-5166 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/27/2011 Date Data Arrived at EDR: 06/27/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258

Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SWRCY: Recycling Centers

A listing of recycling center locations.

Date of Government Version: 03/14/2011 Date Data Arrived at EDR: 03/15/2011 Date Made Active in Reports: 03/31/2011

Number of Days to Update: 16

Source: Department of Health Telephone: 701-328-5266 Last EDR Contact: 03/16/2012

Next Scheduled EDR Contact: 06/25/2012 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 05/07/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/02/2012 Date Data Arrived at EDR: 03/13/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 93

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Location Listing

A listing of clandestine drug lab locations in North Dakota.

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 03/07/2012 Date Made Active in Reports: 04/05/2012

Number of Days to Update: 29

Source: Bureau of Criminal Investigation

Telephone: 701-328-8171 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012 Date Data Arrived at EDR: 03/26/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 80

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/01/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 72

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Annually

SPILLS: State Spills

A listing of Department of Health spill records.

Date of Government Version: 04/10/2012 Date Data Arrived at EDR: 04/12/2012 Date Made Active in Reports: 05/29/2012

Number of Days to Update: 47

Source: Dept. of Health Telephone: 701-328-5150 Last EDR Contact: 04/11/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: 303-312-6149 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011 Date Data Arrived at EDR: 08/09/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 94

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 05/08/2012

Next Scheduled EDR Contact: 08/20/2012
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 08/12/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 112

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 01/25/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 36

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012 Date Data Arrived at EDR: 03/14/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 92

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 06/13/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012 Number of Days to Update: 146 Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 09/08/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 06/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 09/01/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 131

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/28/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 61

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010 Date Data Arrived at EDR: 11/10/2010 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 98

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/17/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011 Date Data Arrived at EDR: 07/15/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 60

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/10/2012 Date Data Arrived at EDR: 01/12/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 49

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011 Date Data Arrived at EDR: 12/13/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 79

Source: EPA

Telephone: (303) 312-6312 Last EDR Contact: 06/12/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008

Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Biennially

UIC: Underground Injection Wells

A listing of underground injection control wells.

Date of Government Version: 02/06/2012 Date Data Arrived at EDR: 02/08/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 33

Source: Department of Health Telephone: 701-328-5217 Last EDR Contact: 05/07/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Varies

DRYCLEANERS: Drycleaner facilities
A listing of drycleaner facility locations.

Date of Government Version: 09/10/2009 Date Data Arrived at EDR: 09/14/2009 Date Made Active in Reports: 09/30/2009

Number of Days to Update: 16

Source: Department of Health Telephone: 701-328-5188 Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

NPDES: Wastewater Facility Listing

A listing of wastewater facility locations.

Date of Government Version: 05/08/2012 Date Data Arrived at EDR: 05/09/2012 Date Made Active in Reports: 05/29/2012

Number of Days to Update: 20

Source: Department of Health Telephone: 701-328-5260 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

AIRS: Permitted Airs Facility Listing

A listing of permitted airs facility locations.

Date of Government Version: 05/23/2007 Date Data Arrived at EDR: 05/24/2007 Date Made Active in Reports: 06/08/2007

Number of Days to Update: 15

Source: Department of Health Telephone: 701-328-5188 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/06/2012 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 03/31/2012 Date Data Arrived at EDR: 05/17/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 28

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012

Data Release Frequency: N/A

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 06/12/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 05/04/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

2020 CORRECTIVE ACTION: 2020 Corrective Action Program List

This RCRA cleanup baseline includes facilities expected to need corrective action.

Date of Government Version: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 05/18/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Source: EDR, Inc.

Date Data Arrived at EDR: N/A Telephone: N/A

Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/21/2012 Date Data Arrived at EDR: 05/22/2012 Date Made Active in Reports: 05/31/2012

Number of Days to Update: 9

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 05/22/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2012 Date Data Arrived at EDR: 05/09/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 36

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/09/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/15/2011

Number of Days to Update: 27

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/19/2012

Next Scheduled EDR Contact: 07/02/2012 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care List

Source: Department of Human Services

Telephone: 701-328-2316

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

MINOT SITE 2 1ST STREET SW/1ST AVENUE SW MINOT, ND 58701

TARGET PROPERTY COORDINATES

Latitude (North): 48.2359 - 48° 14' 9.24" Longitude (West): 101.2941 - 101° 17' 38.76"

Universal Tranverse Mercator: Zone 14 UTM X (Meters): 329651.8 UTM Y (Meters): 5344845.5

Elevation: 1591 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 48101-B3 MINOT, ND

Most Recent Revision: 1979

North Map: 48101-C3 BURLINGTON SE, ND

Most Recent Revision: 1979

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

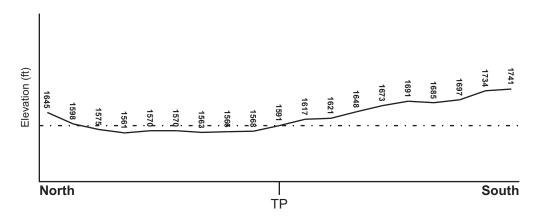
TOPOGRAPHIC INFORMATION

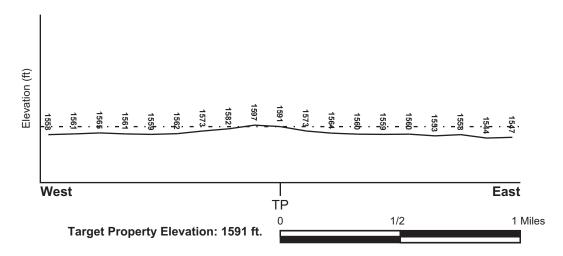
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

FEMA Flood Electronic Data

Target Property County
WARD, ND

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 3853670012C - FEMA Q3 Flood data

Additional Panels in search area: 3853670005C - FEMA Q3 Flood data

3800000000A - FEMA Q3 Flood data 3853670016C - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

MINOT YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 LOCATION
 GENERAL DIRECTION

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 The state of the

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

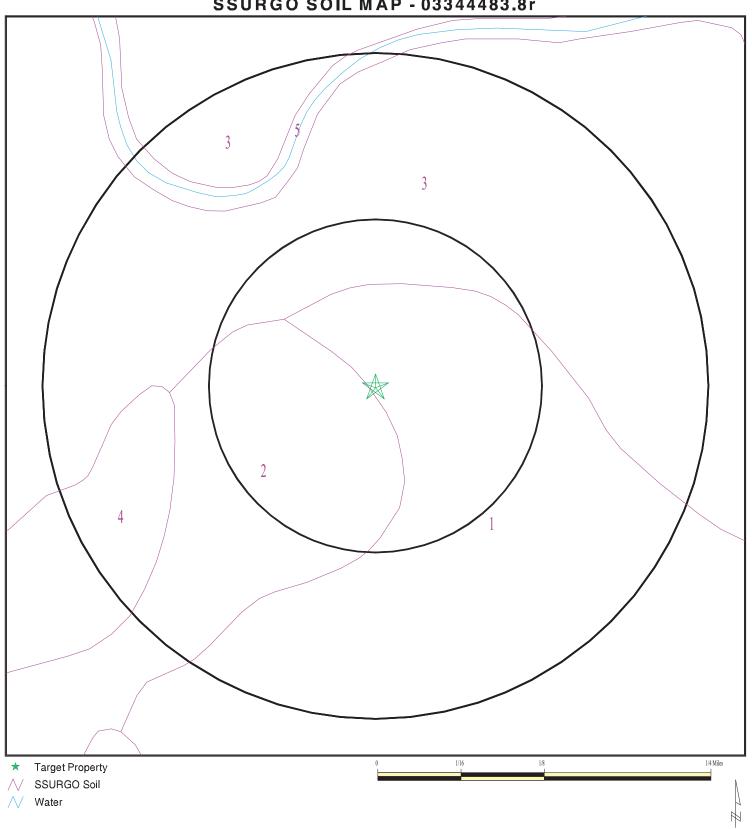
Era: Cenozoic Category: Stratified Sequence

System: Tertiary
Series: Paleocene

Code: Tx (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 03344483.8r



SITE NAME: Minot Site 2 ADDRESS: 1st Street SW/1st Avenue SW

Minot ND 58701 LAT/LONG: 48.2359 / 101.2941 CLIENT: TriMedia CONTACT: Derek Senn INQUIRY #: 03344483.8r

June 14, 2012 11:32 am DATE:

Copyright © 2012 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SVEA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

	Soil Layer Information						
Boundary Classification		Boundary		Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
1	0 inches	7 inches	loam	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: 8.4 Min: 7.4
2	7 inches	24 inches	loam	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: 8.4 Min: 7.4
3	24 inches	59 inches	loam	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: SIOUX

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	r Information			
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	7 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 423.43 Min: 42.34	Max: 8.4 Min: 7.4
2	7 inches	11 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 423.43 Min: 42.34	Max: 8.4 Min: 7.4
3	11 inches	59 inches	extremely gravelly sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 423.43 Min: 42.34	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: VELVA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	Information			
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 4.23	Max: 8.4 Min: 6.6
2	7 inches	59 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.34 Min: 4.23	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: WABEK

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	r Information			
	Boundary Classification			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
1	0 inches	5 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 141.14	Max: 8.4 Min: 7.4

			Soil Layer	r Information			
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
2	5 inches	11 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 141.14	Max: 8.4 Min: 7.4
3	11 inches	59 inches	sand and gravel	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 141.14	Max: 8.4 Min: 7.4

Soil Map ID: 5

Soil Component Name: WATER

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C16	USGS2911595	1/4 - 1/2 Mile NNV
C17	USGS2911596	1/4 - 1/2 Mile NNW
25	USGS2911599	1/2 - 1 Mile NW
G36	USGS2911781	1/2 - 1 Mile WNW
J39	USGS2911757	1/2 - 1 Mile WNW
N56	USGS2911598	1/2 - 1 Mile NW
T76	USGS2911752	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	ND5000000027747	1/8 - 1/4 Mile NW
2	ND5000000027709	1/8 - 1/4 Mile ENE
4	ND5000000027818	1/4 - 1/2 Mile NNE
A5	ND5000000027773	1/4 - 1/2 Mile NE
A6	ND5000000027774	1/4 - 1/2 Mile NE
7	ND5000000027753	1/4 - 1/2 Mile ENE
B8	ND5000000027834	1/4 - 1/2 Mile NNW
B9	ND5000000027837	1/4 - 1/2 Mile NNW
B10	ND5000000027831	1/4 - 1/2 Mile NNW
B11	ND5000000027830	1/4 - 1/2 Mile NNW
B12	ND5000000027829	1/4 - 1/2 Mile NNW
B13	ND5000000027839	1/4 - 1/2 Mile NNW
B14	ND5000000027838	1/4 - 1/2 Mile NNW
15	ND5000000027833	1/4 - 1/2 Mile NE
D18	ND5000000027860	1/2 - 1 Mile North
D19	ND5000000027861	1/2 - 1 Mile North
20	ND5000000027859	1/2 - 1 Mile NNE
D21	ND5000000027862	1/2 - 1 Mile North
22	ND5000000027682	1/2 - 1 Mile West

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

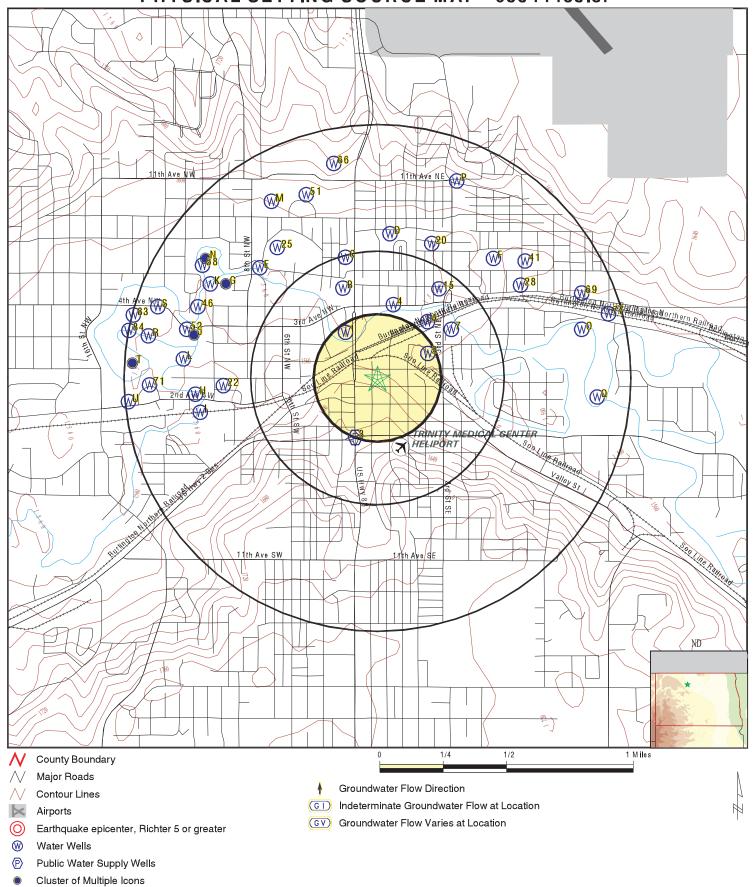
		LOCATION
MAP ID	WELL ID	FROM TP
		1/2 - 1 Mile NW
E23 E24	ND5000000027848 ND5000000027850	1/2 - 1 Mile NW
F26	ND5000000027858	1/2 - 1 Mile NV
F27	ND5000000027856	1/2 - 1 Mile NE
28	ND5000000027836 ND5000000027840	1/2 - 1 Mile NE 1/2 - 1 Mile ENE
G29	ND5000000027640	1/2 - 1 Mile ENE
H30	ND5000000027823 ND5000000027680	1/2 - 1 Mile Winw
131	ND5000000027680 ND5000000027664	1/2 - 1 Mile WSW
132	ND5000000027604 ND5000000027665	1/2 - 1 Mile Wow
133	ND5000000027662	1/2 - 1 Mile West
J34	ND5000000027728	1/2 - 1 Mile WNW
J35	ND5000000027726	1/2 - 1 Mile WNW
J37	ND5000000027745	1/2 - 1 Mile WNW
J38	ND5000000027758	1/2 - 1 Mile WNW
H40	ND5000000027673	1/2 - 1 Mile West
41	ND5000000027855	1/2 - 1 Mile NE
K42	ND5000000027828	1/2 - 1 Mile WNW
K43	ND5000000027842	1/2 - 1 Mile WNW
K44	ND5000000027845	1/2 - 1 Mile WNW
K45	ND5000000027843	1/2 - 1 Mile WNW
46	ND5000000027816	1/2 - 1 Mile WNW
L47	ND5000000027705	1/2 - 1 Mile West
L48	ND5000000027703	1/2 - 1 Mile West
J49	ND5000000027741	1/2 - 1 Mile WNW
J50	ND5000000027730	1/2 - 1 Mile West
51	ND5000000027876	1/2 - 1 Mile NNW
52	ND5000000027755	1/2 - 1 Mile WNW
M53	ND5000000027868	1/2 - 1 Mile NNW
M54	ND5000000027873	1/2 - 1 Mile NNW
M55	ND5000000027872	1/2 - 1 Mile NNW
M57	ND5000000027871	1/2 - 1 Mile NNW
58	ND5000000027852	1/2 - 1 Mile WNW
N59	ND5000000027853	1/2 - 1 Mile WNW
O60	ND5000000027756	1/2 - 1 Mile ENE
M61	ND5000000027875	1/2 - 1 Mile NNW
062	ND5000000027754	1/2 - 1 Mile ENE
P63	ND5000000027881	1/2 - 1 Mile NNE
N64	ND5000000027857	1/2 - 1 Mile NW
P65	ND5000000027880	1/2 - 1 Mile NNE
66	ND5000000027886	1/2 - 1 Mile NNW
Q67	ND5000000027675	1/2 - 1 Mile East
Q68	ND5000000027677	1/2 - 1 Mile East 1/2 - 1 Mile ENE
69 R70	ND5000000027824 ND5000000027737	1/2 - 1 Mile ENE 1/2 - 1 Mile West
71	ND5000000027737 ND5000000027683	1/2 - 1 Mile West
S72	ND5000000027683	1/2 - 1 Mile WNW
S73	ND5000000027813	1/2 - 1 Mile WNW
R74	ND5000000027617	1/2 - 1 Mile WWW
R75	ND5000000027738	1/2 - 1 Mile West
77	ND5000000027730	1/2 - 1 Mile ENE
778	ND5000000027700	1/2 - 1 Mile West
U79	ND5000000027670	1/2 - 1 Mile West

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
U80	ND5000000027671	1/2 - 1 Mile West
U81	ND5000000027672	1/2 - 1 Mile West
T82	ND5000000027698	1/2 - 1 Mile West
83	ND5000000027797	1/2 - 1 Mile WNW
84	ND5000000027752	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 03344483.8r



SITE NAME: Minot Site 2

ADDRESS: 1st Street SW/1st Avenue SW

Minot ND 58701 LAT/LONG: 48.2359 / 101.2941 CLIENT: TriMedia CONTACT: Derek Senn

INQUIRY#: 03344483.8r

DATE: June 14, 2012 11:32 am

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance

 Elevation
 Database
 EDR ID Number

 1
 ND WELLS
 ND500000027747

1/8 - 1/4 Mile Lower

> Site index: 14342 Location: 15508323AAD 13005 Ward Swc well n: County: Souris River Basin: Minot Aquifer: **Observation Well** PVC Purpose: Casing: Diameter: Measuring: 1553.85 Land surfa: 1552.17 Elev type: Survey 0.01 ft

 Date drill:
 06/23/1992
 Total dept:
 291

 Bedrock de:
 275
 Top screen:
 118

Bottom scr: 123 Longitude: -101.296826148067 Latitude: 48.2385052208946 Site id: ND500000027747

2 ENE 1/8 - 1/4 Mile Lower

8 - 1/4 Mile ower

Site index: 15198 Location: 15508324BAC2
Swc well n: WHITES County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

Date drill: 10/03/1963 Total dept: 194
Bedrock de: 0 Top screen: 0

 Bottom scr:
 0
 Longitude:
 -101.289784303529

 Latitude:
 48.2372947845265
 Site id:
 ND500000027709

3 SSW 1/8 - 1/4 Mile Higher

Contact name:

Contact zip:

Pwsid: ND5100660 Epa region: 08

State: ND County: Ward

Pws name: MINOT CITY OF
Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: Owner type: Local_Govt

Facility Id: 1810
Facility name: WELL 6

Facility type: Well Treatment process: coagulation Treatment objective: particulate removal

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

HEMPHILL, CINDY

58701

Contact address2: 515 2ND ST NW
Contact city: MINOT

ND WELLS

FRDS PWS

ND5000000027709

ND5100660

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 1909
Facility name: WELL 8

Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact address2: 515 2ND ST NW
Contact city: MINOT

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

58701

58701

Contact zip:

Contact zip:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: Owner type: Local_Govt

Facility name: WELL 11
Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact city: MINOT
Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF
Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

 Pws type:
 CWS

 Status:
 Active

 Owner type:
 Local_Govt

Facility id: 1990
Facility name: WELL 12

Facility type: Well Treatment process: coagulation
Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address1: Contact address2: Contact addr

ND5100660 80 Pwsid: Epa region: State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface_water

Pws type: **CWS** Status: Active Owner type: Local Govt

Facility id: 2005 Facility name: WELL 13

Facility type: Well Treatment process: coagulation particulate removal Treatment objective:

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL 515 2ND ST NW Contact address2:

Contact city: **MINOT**

ND5100660 80 Pwsid: Epa region: State: ND County: Ward

58701

MINOT

58701

Contact zip:

Contact zip:

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water Pws type: **CWS**

Status: Active Owner type: Local_Govt Facility id: 2017

Facility name: WELL 14 Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY Contact phone: 701-857-4751 Contact address1: CITY HALL

515 2ND ST NW Contact address2:

Contact city: Contact zip: 58701

ND5100660 80 Pwsid: Epa region: State: ND County: Ward

MINOT CITY OF Pws name: Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface water **CWS** Pws type:

Status: Active Owner type: Local Govt Facility id: 2026

Facility name: WELL 15 Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal HEMPHILL, CINDY Contact name: Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

515 2ND ST NW Contact address2: Contact city: **MINOT**

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 2034

Facility name: WELL 16
Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

58701

58701

58701

Contact zip:

Contact zip:

Contact zip:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 2041

Facility name: WELL A
Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF
Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local_Govt
Facility id: 2048

Facility name: WELL B

Facility type: Well Treatment process: coagulation
Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF County. Ward

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local Govt

Facility id: 2052
Facility name: WELL C

Facility type: Well Treatment process: coagulation
Treatment objective: particulate removal coagulation

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact city: MINOT
Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: Owner type: Local_Govt

Facility name: WELL D
Facility type: Well Treatment process: coagulation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact phone: 701-857-4751 Contact address1: CTTY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT

Contact zip: 58701

Pwsid: ND5100660 Epa region: 08

State: ND County: Ward
Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500
PWS Source: Surface water

Pws type: CWS
Status: Active Owner type: Local Govt

Status: Active Owner type: Local_Govt Facility id: 2059

Facility name: WELL E
Facility type: Well Treatment process: coagulation
Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

58701

Contact zip:

Contact address1:

CITY HALL

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 2640

Facility name: WATER TREATMENT PLANT

Facility type: Sampling_station Treatment process: coagulation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact address2: 515 ZND S

Contact city: MINOT Contact zip: 58701

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 3041

Facility name: PLANT_A-E_005_006_008_011-16

Facility type: Treatment_plant Treatment process: coagulation

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS Status: Active

Status: Active Owner type: Local_Govt Facility id: 4097

Facility name: MINOT CITY OF

Facility type: Distribution_system_zone Treatment process: coagulation

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 4260

Facility name: GENERAL SOURCE
Facility type: Sampling station Treatment process: coagulation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact address2: 515 2ND 51 NW

Contact city: MINOT

Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF
Population Society 36567 Physicians 10500

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local_Govt

Facility id: 1095

Facility name: SOURIS RIVER

Facility type: Intake Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact city: MINOT
Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface water

Pws type: CWS
Status: Active Owner type: Local_Govt

Facility id: 1622
Facility name: WELL 5

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

58701

Contact zip:

Contact address1:

CITY HALL

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS Status: Active

Status: Active Owner type: Local_Govt

Facility id: 1810
Facility name: WELL 6
Facility type: Well

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact address2: 515 2ND ST N
Contact city: MINOT

Contact city: MINO I
Contact zip: 58701

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

 Pws type:
 CWS

 Status:
 Active

 Owner type:
 Local_Govt

Facility id: 1909 Facility name: WELL 8

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface water

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1963
Facility name: WELL 11

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact address1:

CITY HALL

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Active Owner type: Local_Govt

Facility id: 1990
Facility name: WELL 12
Facility type: Well

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

58701

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact address2. 515 2ND S1
Contact city: MINOT

Contact zip:

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

 Pws type:
 CWS

 Status:
 Active

 Owner type:
 Local_Govt

Facility id: 2005 Facility name: WELL 13

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701,857,4751

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Society 26667

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface water

Pws type: CWS
Status: Active Owner type: Local_Govt
Facility id: 2017

Facility name: WELL 14
Facility type: Well Treatment process: coagulation

Facility type: Well Treatment objective: well softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact address1:

CITY HALL

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS
Status: Active

Status: Active Owner type: Local_Govt

Facility id: 2026
Facility name: WELL 15
Facility type: Well

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS Status: Active

Status: Active Owner type: Local_Govt

Facility id: 2034
Facility name: WELL 16
Facility type: Well

acility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY

Contact phone: 701 857 4751

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 2041

Facility name: WELL A
Facility type: Well

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface_water

Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 2048

Facility name: WELL B
Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT
Contact zip: 58701

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF
Population Served: 36567 Pwssycconn: 10500

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: Owner type: Local_Govt

Facility name: WELL C

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact city: MINOT
Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500
PWS Source: Surface water

Pws type: CWS
Status: Active Owner type: Local Govt

Facility id: 2056
Facility name: WELL D

Facility type: Well Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact address2: 515 2ND ST NW
Contact city: MINOT

58701

Contact zip:

Contact address1:

CITY HALL

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 2640

Facility name: WATER TREATMENT PLANT

Facility type: Sampling_station Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751

Contact address2: 515 2ND ST NW

Contact city: MINOT
Contact zip: 58701

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 3041

Facility name: PLANT_A-E_005_006_008_011-16

Facility type: Treatment_plant Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact city: MINOT Contact zip: 58701

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS Status: Active

Status: Active Owner type: Local_Govt Facility id: 4097

Facility name: MINOT CITY OF

Facility type: Distribution_system_zone Treatment process: coagulation

Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 4260

Facility name: GENERAL SOURCE

Facility type: Sampling_station Treatment process: coagulation
Treatment objective: softening (hardness removal)

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

58701

MINOT

58701

Contact zip:

Contact city:

Contact zip:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

 Pws type:
 CWS

 Status:
 Active
 Owner type:
 Local_Govt

Facility id: 1095

Facility name: SOURIS RIVER

Facility type: Intake Treatment process: flocculation Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF
Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Pws type: CWS
Status: Active Owner type: Local_Govt
Facility id: 1622

Facility name: WELL 5

Facility type: Well Treatment process: flocculation Treatment objective: particulate removal

Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

State: ND County: war Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: Owner type: Local_Govt

Facility name: WELL 6
Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

58701

58701

58701

Contact zip:

Contact zip:

Contact zip:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 1909

Facility name: WELL 8
Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500
PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local_Govt
Facility id: 1963

Facility name: WELL 11

Facility type: Well Treatment process: flocculation
Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local_Govt

Facility id: 1990
Facility name: WELL 12

Facility type: Well Treatment process: flocculation
Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

HEMPHILL, CINDY

58701

58701

Original name:

Contact zip:

Contact zip:

Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local_Govt
Facility id: 2005

Facility name: WELL 13
Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact city: MINOT
Contact zip: 58701

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF
Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS

Status: Active Owner type: Local_Govt Facility id: 2017

Facility name: WELL 14
Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW Contact city: MINOT

Pwsid: ND5100660 Epa region: 08
State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500 PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local

Status: Active Owner type: Local_Govt Facility id: 2026
Facility name: WELL 15

Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY
Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL Contact address2: 515 2ND ST NW

Contact address2: 515 2ND ST NW
Contact city: MINOT

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

58701

MINOT

58701

Contact zip:

Contact city:

Contact zip:

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS
Status: Active Owner type: Local_Govt
Facility id: 2034

Facility name: WELL 16
Facility type: Well Treatment process: flocculation

Facility type: Well Treatment process: flocculation
Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW

Contact zip: 58701

Pwsid: ND5100660 Epa region: 08

 Pwsid:
 ND5100660
 Epa region:
 08

 State:
 ND
 County:
 Ward

Pws name: MINOT CITY OF
Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water
Pws type: CWS
Status: Owner type: Local Court

Status: Active Owner type: Local_Govt Facility id: 2041

Facility name: WELL A
Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal
Contact name: HEMPHILL, CINDY

Original name: HEMPHILL, CINDY
Contact phone: 701-857-4751 Contact address1: CITY HALL

Contact address2: 515 2ND ST NW
Contact city: MINOT

ND5100660 80 Pwsid: Epa region: State: ND County: Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water Pws type: **CWS**

Status: Active Owner type: Local Govt Facility id: 2048

Facility name: WELL B flocculation Facility type: Well Treatment process:

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL 515 2ND ST NW

Contact address2: Contact city: **MINOT**

ND5100660 80 Pwsid: Epa region: State: ND County: Ward

58701

58701

Contact zip:

Contact zip:

Contact zip:

MINOT CITY OF Pws name:

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water Pws type: **CWS**

Status: Active Owner type: Local_Govt Facility id: 2052

Facility name: WELL C Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address1: CITY HALL

515 2ND ST NW Contact address2: **MINOT** Contact city: 58701

ND5100660 80 Pwsid: Epa region: State: ND County: Ward

MINOT CITY OF Pws name: Population Served:

36567 Pwssvcconn: 10500 PWS Source: Surface water

CWS Pws type: Status: Active Owner type: Local Govt

Facility id: 2056 Facility name: WELL D

Facility type: Well Treatment process: flocculation Treatment objective: particulate removal HEMPHILL, CINDY Contact name:

Original name: HEMPHILL, CINDY Contact phone: 701-857-4751 Contact address1: CITY HALL

515 2ND ST NW Contact address2: Contact city: **MINOT**

Contact address1:

CITY HALL

Pwsid:ND5100660Epa region:08State:NDCounty:Ward

Pws name: MINOT CITY OF

Population Served: 36567 Pwssvcconn: 10500

PWS Source: Surface_water

Pws type: CWS

Status: Owner type: Local_Govt

Facility id: 2059 Facility name: WELL E

Facility type: Well Treatment process: flocculation

Treatment objective: particulate removal Contact name: HEMPHILL, CINDY Original name: HEMPHILL, CINDY

Contact phone: 701-857-4751 Contact address2: 515 2ND ST NW

Contact city: MINOT
Contact zip: 58701

PWS ID: ND5100660

Date Initiated: Not Reported Date Deactivated: Not Reported

PWS Name: MINOT CITY OF

MINOT, ND 58701

Addressee / Facility: Operator

C/O BYRON THRONSON WWS

WATER PLANT MINOT, ND 58701

Addressee / Facility: System Owner/Responsible Party

MAYOR AND CITY COUNCIL 515 2ND ST SW CITY HALL C/O ROBERT FRANTSVOG AUD

MINOT, ND 58701

Facility Latitude: 48 13 57 Facility Longitude: 101 17 44

City Served: Not Reported

Treatment Class: Treated Population: 34544

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID: 9400445 Source ID: Not Reported PWS Phone: Not Reported Vio. beginning Date: 04/01/94 Vio. end Date: 06/30/94 Vio. Period: 003 Months

Num required Samples:Not ReportedNumber of Samples Taken:Not ReportedAnalysis Result:000000012000000Maximum Contaminant Level:000000010000000

Analysis Method: Liquid/Liquid Extraction (TTHM)

Violation Type: MCL, Average Contaminant: TTHM Vio. Awareness Date: 071394

ENFORCEMENT INFORMATION:

System Name: MINOT CITY OF Violation Type: MCL, Average

Contaminant: TTHM

Compliance Period: 1994-04-01 - 1994-06-30

Violation ID: 9400445

Enforcement Date: 1994-07-22 Enf. Action: State Violation/Reminder Notice

ENFORCEMENT INFORMATION:

System Name: MINOT CITY OF Violation Type: MCL, Average

Contaminant: TTHM

Compliance Period: 1994-04-01 - 1994-06-30

Violation ID: 9400445 Enforcement Date: 1994-07-22

System Name: MINOT CITY OF
Violation Type: MCL, Average

Contaminant: TTHM

Compliance Period: 1994-04-01 - 1994-06-30

Violation ID: 9400445

Enforcement Date: 1994-09-27 Enf. Action: State Public Notif Received

4 NNE ND WELLS ND500000027818

Enf. Action:

State Public Notif Requested

1/4 - 1/2 Mile Lower

Site index: 14388 Location: 15508324BBAR

Swc well n: SOURIS County: Ward

Basin:Souris RiverAquifer:Surface WaterPurpose:Surface Water Monitoring SiteCasing:Not ReportedDiameter:0Measuring:1558.37Land surfa:0Elev type:Survey 0.01 ft

 Date drill:
 00/00/00
 Total dept:
 0

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.292735106003 Latitude: 48.2400840621935 Site id: ND500000027818

A5
NE ND WELLS ND500000027773

1/4 - 1/2 Mile Lower

Site index: 15194 Location: 15508324BAB3

Swc well n: NSP₁ County: Ward Basin: Souris River Aquifer: Minot Purpose: Irrigation Well Casing: Unknown Diameter: Measuring: 0 1555

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1930
 Total dept:
 102

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 100 Longitude: -101.289815792625 Latitude: 48.2391143438406 Site id: ND500000027773

A6 NE ND WELLS ND500000

NE ND WELLS ND500000027774
1/4 - 1/2 Mile
Lower

TC03344483.8r Page A-32

 Site index:
 15195
 Location:
 15508324BAB4

Swc well n: NSP₂ County: Ward Basin: Souris River Aquifer: Minot Purpose: Irrigation Well Casing: Unknown Diameter: 0 Measuring: 1555

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1946
 Total dept:
 111

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 109
 Longitude:
 -101.289815792625

 Latitude:
 48.2391143438406
 Site id:
 ND500000027774

7
ENE ND WELLS ND500000027753
1/4 - 1/2 Mile

Lower

 Site index:
 14358
 Location:
 15508324BAAC

13016 County: Swc well n: Ward Basin: Souris River Aquifer: Minot Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1552.35 Land surfa: 1550.98 Elev type: Survey 0.01 ft 07/29/1992 Date drill: 280

 Date drill:
 07/29/1992
 Total dept:
 280

 Bedrock de:
 229
 Top screen:
 98

Bottom scr: 103 Longitude: -101.287774263415 Latitude: 48.23867309616 Site id: ND5000000027753

B8

NNW 1/4 - 1/2 Mile Lower

Site index: 15272 Location: 15508314DDD4

Swc well n: 5412 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1556 Elev type: Elevation Derived from Topo Map

 Date drill:
 07/19/1969
 Total dept:
 200

 Bedrock de:
 135
 Top screen:
 0

Bottom scr: 0 Longitude: -101.296732949814 Latitude: 48.2410135183907 Site id: ND500000027834

B9 NNW ND WELLS ND500000027837

1/4 - 1/2 Mile Lower

 Site index:
 15135
 Location:
 15508314DDD1

Swc well n: USGS T1 County: Ward Aquifer: Souris River Minot Basin: Purpose: Observation Well Casing: ABS Diameter: 2 Measuring: 1555

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1945
 Total dept:
 288

 Bedrock de:
 248
 Top screen:
 0

 Bottom scr:
 134
 Longitude:
 -101.296733865228

 Latitude:
 48.2410738057497
 Site id:
 ND500000027837

ND WELLS

Map ID Direction Distance

Elevation Database EDR ID Number **B10**

NNW 1/4 - 1/2 Mile

ND WELLS ND5000000027831

Lower

Site index: 14343 Location: 15508314DDD5

13006 Ward Swc well n: County: Basin: Souris River Aquifer: Minot **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1555.27 Land surfa: 1553.3 Elev type: Survey 0.01 ft Date drill: 06/22/1992 Total dept: 300 Bedrock de: Top screen: 128 214

-101.297204013555 Bottom scr: 133 Longitude: Latitude: 48.2409637353537 Site id: ND5000000027831

B11 NNW 1/4 - 1/2 Mile Lower

ND WELLS ND5000000027830

Site index: 15502 Location: 15508314DDD6 Swc well n: 13167A County: Ward Souris River Basin: Aquifer: Souris Valley Observation Well PVC Purpose: Casing: Diameter: 2 Measuring: 1555.69 1553.56 Survey 0.01 ft Land surfa: Elev type:

Date drill: 05/25/1993 Total dept: Bedrock de: 0 Top screen: 75

85 -101.297253241841 Bottom scr: Longitude: 48.2409634016082 ND5000000027830 Latitude: Site id:

B12 NNW 1/4 - 1/2 Mile Lower

> 15503 Site index: Location: 15508314DDD7

> Swc well n: 13167B County: Ward Souris River Basin: Aquifer: Souris Valley Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1555.13 Land surfa: 1553.65 Elev type: Survey 0.01 ft

05/25/1993 Total dept: 40 Date drill: Bedrock de: 0 Top screen: 29

Bottom scr: 34 Longitude: -101.297302470126 48.2409630678421 ND5000000027829 Latitude: Site id:

B13 NNW 1/4 - 1/2 Mile Lower

ND WELLS ND500000027839

ND5000000027829

ND WELLS

Site index: 11431 Location: 15508314DDD2

Swc well n: MIN. 05 County: Ward Basin: Souris River Aquifer: Minot Purpose: Municipal Well Casing: Steel Diameter: Measuring: 1554 12

Land surfa: 1554 Elev type: Elevation Derived from Topo Map

 Date drill:
 09/09/1946
 Total dept:
 147

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 147 Longitude: -101.2968947731 Latitude: 48.2411330089969 Site id: ND500000027839

B14 NNW 1/4 - 1/2 Mile Lower

Site index: 11432 Location: 15508314DDD3

MIN. 06 Ward Swc well n: County: Basin: Souris River Aquifer: Minot Purpose: Municipal Well Casing: Steel Diameter: 16 Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 12/14/1947
 Total dept:
 139

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 139
 Longitude:
 -101.297205845465

 Latitude:
 48.2410843100658
 Site id:
 ND500000027838

15 NE 1/4 - 1/2 Mile Lower

Site index: 14529 Location: 15508313CDCA

Swc well n: 13124 County: Ward Souris River Aquifer: Minot Basin: PVC Purpose: Observation Well Casing: Diameter: 2 Measuring: 1553.11 1551.46 Land surfa: Elev type: Survey 0.01 ft Date drill: 10/29/1992 Total dept: 145 Bedrock de: 0 Top screen: 118

Bottom scr: 123 Longitude: -101.288834660322 Latitude: 48.240984548162 Site id: ND5000000027833

C16 NNW 1/4 - 1/2 Mile Lower

FED USGS USGS2911595

ND WELLS

ND WELLS

ND5000000027838

Agency cd: USGS Site no: 481434101174701

Site name: 155-083-14DDD1

 Latitude:
 481434
 EDR Site id:
 USGS2911595

 Longitude:
 1011747
 Dec lat:
 48.24278736

 Dec Ion:
 -101.29682881
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: SESESES14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1554

Altitude method: Interpolated from topographic map
Altitude accuracy: 1.

Altitude datum: National Geodetic Vertical Datum of 1929
Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19460101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag:

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 147 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data count: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 57.00

Lower

C17
NNW
FED USGS USGS2911596
1/4 - 1/2 Mile

Agency cd: USGS Site no: 481434101174702

Site name: 155-083-14DDD2

 Latitude:
 481434
 EDR Site id:
 USGS2911596

 Longitude:
 1011747
 Dec lat:
 48.24278736

 Dec Ion:
 -101.29682881
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: SESESES14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1554

Altitude method: Interpolated from topographic map

Altitude accuracy: 1.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19470101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aguifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 139 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 55.00

D18
North
ND WELLS
ND500000027860

North 1/2 - 1 Mile Lower

Lower

Site index: 14538 Location: 15508313CBDC

13117 Ward Swc well n: County: Basin: Souris River Aquifer: Minot Observation Well **PVC** Purpose: Casina: Diameter: Measuring: 1551.3 Survey 0.01 ft Land surfa: 1549.44 Elev type:

 Date drill:
 10/21/1992
 Total dept:
 274

 Bedrock de:
 260
 Top screen:
 238

Bottom scr: 241 Longitude: -101.293025466314 Latitude: 48.2440943623589 Site id: ND500000027860

D19 North 1/2 - 1 Mile

Site index: 15499 Location: 15508313CBDC2

13169A County: Ward Swc well n: Basin: Souris River Aquifer: Minot Observation Well Casing: **PVC** Purpose: 1551.89 Diameter: 2 Measuring: Land surfa: 1549.74 Elev type: Survey 0.01 ft

 Date drill:
 05/23/1993
 Total dept:
 200

 Bedrock de:
 0
 Top screen:
 178

Bottom scr: 183 Longitude: -101.293026087592 Latitude: 48.2441354673193 Site id: ND500000027861

20 NNE 1/2 - 1 Mile Lower

ND WELLS ND500000027859

ND5000000027861

ND WELLS

 Site index:
 14359
 Location:
 15508313CDB

Swc well n: 13017 County: Ward Basin: Souris River Aquifer: Minot **PVC** Purpose: Observation Well - Plugged Casing: Diameter: Measuring: 1553 2

Land surfa: 1551.35 Elev type: Elevation Derived from Topo Map

 Date drill:
 07/30/1992
 Total dept:
 307

 Bedrock de:
 307
 Top screen:
 258

 Bottom scr:
 263
 Longitude:
 -101.289456199089

 Latitude:
 48.2435729959032
 Site id:
 ND500000027859

D21

North 1/2 - 1 Mile Lower

Site index: 15500 Location: 15508313CBDC3

13169B County: Swc well n: Ward Basin: Souris River Aquifer: Minot Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1552.44 Land surfa: 1550.07 Elev type: Survey 0.01 ft

 Date drill:
 05/25/1993
 Total dept:
 120

 Bedrock de:
 0
 Top screen:
 115

Bottom scr: 120 Longitude: -101.293022564842 Latitude: 48.2441738596134 Site id: ND500000027862

22 West ND WELLS ND5000000027682

1/2 - 1 Mile Lower

Site index: 15187 Location: 15508323BDA1

Swc well n: CT 12 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1915
 Total dept:
 137

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.307265442656 Latitude: 48.2354549545043 Site id: ND500000027682

E23
NW
ND WELLS
ND5000000027848
1/2 - 1 Mile

Lower

 Site index:
 11430
 Location:
 15508314DCA

Swc well n: MIN. 09 County: Ward Souris River Aquifer: Minot Basin: Purpose: Observation Well - Destroyed Casing: Steel Diameter: 12 Measuring: 1560

Land surfa: 1560 Elev type: Elevation Derived from Topo Map

 Date drill:
 10/05/1960
 Total dept:
 162

 Bedrock de:
 157
 Top screen:
 0

 Bottom scr:
 148
 Longitude:
 -101.304053370565

 Latitude:
 48.2421531205506
 Site id:
 ND500000027848

ND WELLS

Map ID Direction Distance

Elevation Database EDR ID Number

NW

E24

ND WELLS ND500000027850

1/2 - 1 Mile Lower

> Site index: 15133 Location: 15508314DCB CITY OB Ward Swc well n: County: Souris River Minot Basin: Aquifer: Purpose: Observation Well Casing: Unknown 3 Measuring: 1555 Diameter:

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 07/17/1960
 Total dept:
 141

 Bedrock de:
 140
 Top screen:
 0

 Bottom scr:
 132
 Longitude:
 -101.304243343185

 Latitude:
 48.2422340399883
 Site id:
 ND500000027850

25 NW FED USGS USGS2911599 1/2 - 1 Mile

Lower

Agency cd: USGS Site no: 481436101180800

Site name: 155-083-14DCA

 Latitude:
 481436
 EDR Site id:
 USGS2911599

 Longitude:
 1011808
 Dec lat:
 48.24334291

 Dec lon:
 -101.30266225
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

Dec latlong datum: NAD83 District: 38
State: 38 County: 101

Country: US Land net: NESWSES14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1560

Altitude method: Interpolated from topographic map

Altitude accuracy: 5.

Altitude datum: National Geodetic Vertical Datum of 1929
Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19600101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aguifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 148 Hole depth: Not Reported

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 52.00

F26
NE ND WELLS ND500000027858

1/2 - 1 Mile Lower

Site index: 14537 Location: 15508313DCB2

Swc well n: 13118B County: Ward Basin: Souris River Aquifer: Minot **Observation Well** Casing: **PVC** Purpose: Diameter: Measuring: 2 1551.29

Land surfa: 1549.19 Elev type: Global Position Survey

 Date drill:
 10/22/1992
 Total dept:
 197

 Bedrock de:
 0
 Top screen:
 182

Bottom scr: 193 Longitude: -101.28422454396 Latitude: 48.2427255242135 Site id: ND500000027858

F27 NE 1/2 - 1 Mile Lower

Site index: 14536 Location: 15508313DCB1

13118A Ward Swc well n: County: Basin: Souris River Aquifer: Minot Purpose: Observation Well Casing: PVC 2 1550.54 Diameter: Measuring:

Land surfa: 1548.65 Elev type: Global Position Survey

 Date drill:
 10/22/1992
 Total dept:
 240

 Bedrock de:
 226
 Top screen:
 198

 Bottom scr:
 201
 Longitude:
 -101.284134247968

 Latitude:
 48.2427233857286
 Site id:
 ND500000027856

28 ENE 1/2 - 1 Mile Lower

Site index: 14530 Location: 15508313DCDA

Swc well n: 13123 Ward County: Souris River Minot Basin: Aquifer: **Observation Well** PVC Purpose: Casing: Diameter: Measuring: 1550.65 1550.65 Survey 0.01 ft Land surfa: Elev type:

 Date drill:
 10/28/1992
 Total dept:
 200

 Bedrock de:
 187
 Top screen:
 138

 Bottom scr:
 143
 Longitude:
 -101.281863086633

 Latitude:
 48.2411955445528
 Site id:
 ND500000027840

ND WELLS

ND WELLS

ND5000000027856

Map ID Direction Distance

Elevation Database EDR ID Number

G29 WNW

1/2 - 1 Mile Lower

Site index: 15134 Location: 15508314DCC

MIN. 04 Ward Swc well n: County: Basin: Souris River Minot Aquifer: Observation Well - Destroyed Purpose: Casing: Steel Diameter: 15 Measuring: 1548

Land surfa: 1548 Elev type: Elevation Derived from Topo Map Date drill: 09/04/1958 Total dept: 160

Bedrock de: 0 Top screen: 125

 Bottom scr:
 155
 Longitude:
 -101.306725362158

 Latitude:
 48.2408850982838
 Site id:
 ND500000027825

H30 West 1/2 - 1 Mile Lower

Site index: 15188 Location: 15508323BDA2

Swc well n: CT 7 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1915
 Total dept:
 133

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.309294540745 Latitude: 48.2353533057495 Site id: ND500000027680

131

WSW 1/2 - 1 Mile Lower

Site index: 15492 Location: 15508323BDD3

13161B Swc well n: County: Ward Souris River Basin: Aquifer: Souris Valley Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1556.97 Land surfa: 1555.37 Elev type: Survey 0.01 ft

 Date drill:
 05/18/1993
 Total dept:
 40

 Bedrock de:
 0
 Top screen:
 28

Bottom scr: 33 Longitude: -101.309144733693 Latitude: 48.2338853582653 Site id: ND500000027664

I32 West 1/2 - 1 Mile Lower

ND WELLS ND500000027665

ND WELLS

ND WELLS

ND WELLS

ND5000000027825

ND5000000027680

Site index: 15189 Location: 15508323BDD

Swc well n: CT 11BT County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1552 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1961
 Total dept:
 122

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.309282713087

 Latitude:
 48.2340543278562
 Site id:
 ND500000027665

I33
WSW ND WELLS ND500000027662

1/2 - 1 Mile Lower

Site index: 12203 Location: 15508323BDD2

13161A County: Swc well n: Ward Basin: Souris River Aquifer: Minot Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1556.89 Survey 0.01 ft Land surfa: 1555.29 Elev type:

 Date drill:
 05/18/1993
 Total dept:
 140

 Bedrock de:
 132
 Top screen:
 108

Bottom scr: 113 Longitude: -101.309284025768 Latitude: 48.2338734370651 Site id: ND500000027662

WNW 1/2 - 1 Mile

Lower

 Site index:
 15181
 Location:
 15508323BA3

Swc well n: CT 2 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 155

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.309343486762

 Latitude:
 48.23799493442
 Site id:
 ND500000027728

J35
WNW ND WELLS ND500000027736

1/2 - 1 Mile Lower

 Site index:
 15097
 Location:
 15508323BAA1

Swc well n: MIN. 01 County: Ward Souris River Aquifer: Minot Basin: Purpose: Observation Well - Destroyed Casing: Steel Diameter: 10 Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 138

 Bedrock de:
 0
 Top screen:
 92

 Bottom scr:
 132
 Longitude:
 -101.309503848329

 Latitude:
 48.238284336881
 Site id:
 ND500000027736

ND WELLS

Map ID Direction Distance

Elevation Database EDR ID Number

G36
WNW FED USGS USGS2911781

1/2 - 1 Mile Lower

Agency cd: USGS Site no: 481430101182500

Site name: 155-083-14DCC

 Latitude:
 481430
 EDR Site id:
 USGS2911781

 Longitude:
 1011825
 Dec lat:
 48.24167623

 Dec lon:
 -101.30738455
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

Coor accr: F Lationg datum: NAD2
Dec latlong datum: NAD83 District: 38
State: 38 County: 101

Country: US Land net: SWSWSES14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1548

Altitude method: Interpolated from topographic map

Altitude accuracy: 1.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19470101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 155 Hole depth: Not Reported

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00
Peak flow data count: 0 Water quality data begin date: 0000-00-00
Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 60.00

J37

WNW
1/2 - 1 Mile
Lower

 Site index:
 15098
 Location:
 15508323BAA2

 Swc well n:
 MIN. 02
 County:
 Ward

Basin: Souris River Aquifer: Minot
Purpose: Observation Well - Destroyed Casing: Steel
Diameter: 12 Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 132

 Bedrock de:
 0
 Top screen:
 92

 Bottom scr:
 132
 Longitude:
 -101.309486254495

 Latitude:
 48.2384735611538
 Site id:
 ND500000027745

ND WELLS

Map ID Direction Distance

Elevation Database EDR ID Number

J38 WNW ND WELLS ND500000027758 1/2 - 1 Mile

Lower

Site index: 11448 Location: 15508323BAA3

Swc well n:MIN. 07County:WardBasin:Souris RiverAquifer:MinotPurpose:Observation Well - DestroyedCasing:SteelDiameter:16Measuring:1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 02/10/1948
 Total dept:
 125

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 125
 Longitude:
 -101.309473269982

 Latitude:
 48.2386956411698
 Site id:
 ND500000027758

J39
WNW FED USGS USGS2911757
1/2 - 1 Mile

Lower

Agency cd: USGS Site no: 481419101183300

Site name: 155-083-23BAB

 Latitude:
 481419
 EDR Site id:
 USGS2911757

 Longitude:
 1011833
 Dec lat:
 48.23862066

 Dec Ion:
 -101.3096068
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: NWNENWS23T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1555

Altitude method: Interpolated from topographic map

Altitude accuracy: 5.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19480101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aguifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 133 Hole depth: Not Reported

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 55.00

H40
West ND WELLS ND500000027673

1/2 - 1 Mile Lower

Site index:15186Location:15508323BDSwc well n:CT 11County:WardBasin:Souris RiverAquifer:No Obs Well Installed

Purpose: Test Hole Casing: None

Diameter: 0 Measuring: 0 Land surfa: 0 Elev type: Elevation Derived from Topo Map

Date drill: 00/00/00 Total dept: 148

Bedrock de: 0 Top screen: 0

Bottom scr: 0 Longitude: -101.310012879718 Latitude: 48.2345837231618 Site id: ND500000027673

41 NE 1/2 - 1 Mile

Lower

Site index: 14535 Location: 15508313DCA

13119 Ward Swc well n: County: Basin: Souris River Aquifer: Minot Purpose: Observation Well Casing: PVC 1549.19 Diameter: 2 Measuring: 1547.32 Survey 0.01 ft Land surfa: Elev type:

 Date drill:
 10/22/1992
 Total dept:
 240

 Bedrock de:
 178
 Top screen:
 118

Bottom scr: 123 Longitude: -101.281473336356 Latitude: 48.2425739213476 Site id: ND500000027855

Latitude: 48.2425739213476 Site id: ND5000000027855

K42 WNW 1/2 - 1 Mile Lower

Site index: 15125 Location: 15508314CDD1

Swc well n: MIN. 03 Ward County: Souris River Minot Basin: Aquifer: Purpose: Municipal Well Casing: Steel Diameter: 12 Measuring: 1548

Land surfa: 1548 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1931
 Total dept:
 164

 Bedrock de:
 0
 Top screen:
 138

 Bottom scr:
 158
 Longitude:
 -101.308486365977

 Latitude:
 48.2409442601834
 Site id:
 ND500000027828

ND WELLS

ND WELLS

ND5000000027855

Map ID Direction Distance

Elevation Database EDR ID Number

WNW

ND WELLS 1/2 - 1 Mile

Lower

K43

Site index: 15130 Location: 15508314CDD4

BOR. 2 Ward Swc well n: County: Souris River Basin: No Obs Well Installed Aquifer:

Purpose: Test Hole Casing: None

Diameter: Measuring: Land surfa: 1550 Elev type: Elevation Derived from Topo Map

10/30/1964 Total dept: 91 Date drill: 0 0

Bedrock de: Top screen: -101.308344676063 Bottom scr: 0 Longitude:

Latitude: 48.241334402354 Site id: ND5000000027842

K44 **WNW** 1/2 - 1 Mile Lower

> 15126 Location: 15508314CDD2 Site index:

Swc well n: CT3 County: Ward

Souris River Basin: Aquifer: No Obs Well Installed

Municipal Well Purpose: Casing: None Diameter: O Measuring: 1553

Land surfa: 1553 Elev type: Elevation Derived from Topo Map

Date drill: 01/01/1938 Total dept: 161 Bedrock de: 0 Top screen: 0

0 -101.308313376751 Longitude: Bottom scr: 48.2414332798216 ND5000000027845 Latitude: Site id:

K45 WNW 1/2 - 1 Mile

15508314CDD3 Site index: 15127 Location:

Swc well n: BW2 Ward County:

Souris River Basin: Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: Measuring:

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

09/30/1964 Total dept: Date drill: 127 Bedrock de: 0 Top screen:

Bottom scr: 0 Longitude: -101.308402573799

48.2413641511695 ND5000000027843 Latitude: Site id:

WNW 1/2 - 1 Mile Lower

Lower

ND WELLS ND5000000027816

ND5000000027842

ND5000000027845

ND5000000027843

ND WELLS

ND WELLS

 Site index:
 15179
 Location:
 15508323BA1

 Swc well n:
 CT 8
 County:
 Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 135

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.309443615656 Latitude: 48.2399647541281 Site id: ND500000027816

L47
West ND WELLS ND500000027705

1/2 - 1 Mile Lower

Site index: 14348 Location: 15508323BAC1

13009A Swc well n: County: Ward Basin: Souris River Aquifer: Minot Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1556.25 Land surfa: 1554.81 Elev type: Survey 0.01 ft

 Date drill:
 07/20/1992
 Total dept:
 150

 Bedrock de:
 140
 Top screen:
 118

 Bottom scr:
 123
 Longitude:
 -101.310632635666

 Latitude:
 48.2369939470861
 Site id:
 ND500000027705

L48 West 1/2 - 1 Mile

Lower

1/2 - 1 Mile Lower

Site index: 14349 Location: 15508323BAC2 Swc well n: 13009B County: Ward Aquifer: Souris Valley Basin: Souris River PVC Purpose: Observation Well Casing: Diameter: 2 Measuring: 1557.1 Land surfa: 1555.02 Elev type: Survey 0.01 ft

 Date drill:
 07/21/1992
 Total dept:
 40

 Bedrock de:
 0
 Top screen:
 33

Bottom scr: 38 Longitude: -101.310743094368 Latitude: 48.2369740011259 Site id: ND500000027703

J49
WNW
ND WELLS ND500000027741
1/2 - 1 Mile

 Site index:
 15180
 Location:
 15508323BA2

 Swc well n:
 CT 1
 County:
 Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

Date drill: 00/00/00 Total dept: 154
Bedrock de: 0 Top screen: 0

Bottom scr: 0 Longitude: -101.310452797184 Latitude: 48.2383655002259 Site id: ND500000027741

ND WELLS

Map ID Direction Distance

Elevation Database EDR ID Number J50

West 1/2 - 1 Mile ND WELLS ND500000027730

Lower

 Site index:
 11449
 Location:
 15508323BAB1

MIN. 08 Ward Swc well n: County: Souris River Minot Basin: Aquifer: Municipal Well Purpose: Casing: Steel Diameter: 16 Measuring: 1555

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 06/10/1948
 Total dept:
 133.5

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 132.5
 Longitude:
 -101.310563339657

 Latitude:
 48.2380851944181
 Site id:
 ND500000027730

51 NNW 1/2 - 1 Mile Higher

NW ND WELLS ND500000027876

Cito in

29002 Location: 15508314DAB Site index: Swc well n: 2233 County: Ward Basin: Souris River Aquifer: Undefined Observation Well - Destroyed PVC Purpose: Casing: Diameter: 1.25 Measuring: 0

Land surfa: 0 Elev type: Not Reported

 Date drill:
 05/14/1964
 Total dept:
 294

 Bedrock de:
 279
 Top screen:
 0

Bottom scr: 170 Longitude: -101.300178834072 Latitude: 48.2463644634937 Site id: ND500000027876

WNW 1/2 - 1 Mile

ND WELLS ND500000027755

Lower

Site index: 14387 Location: 15508323BAAR
Swc well n: SOURIS County: Ward

Basin:Souris RiverAquifer:Surface WaterPurpose:Surface Water Monitoring SiteCasing:Not ReportedDiameter:0Measuring:1555.88Land surfa:0Elev type:Global Position Survey

Land surfa:0Elev type:Global FDate drill:00/00/00Total dept:0

Bedrock de: 0 Top screen: 0

 Bottom scr:
 0
 Longitude:
 -101.31039604726

 Latitude:
 48.2386755820343
 Site id:
 ND500000027755

M53 NNW 1/2 - 1 Mile Lower

ND WELLS ND500000027868

 Site index:
 15498
 Location:
 15508314DBA3

Swc well n: 13166 County: Ward Basin: Souris River Aquifer: Minot **PVC** Purpose: Observation Well Casing: Diameter: 2 Measuring: 1560.32 Land surfa: 1558.45 Elev type: Survey 0.01 ft

 Date drill:
 05/24/1993
 Total dept:
 200

 Bedrock de:
 195
 Top screen:
 138

 Bottom scr:
 143
 Longitude:
 -101.30312376421

 Latitude:
 48.2454838378458
 Site id:
 ND500000027868

M54 NNW ND WELLS ND500000027873

1/2 - 1 Mile Lower

 Site index:
 15131
 Location:
 15508314DBA2

Swc well n:M STATECounty:WardBasin:Souris RiverAquifer:MinotPurpose:Domestic WellCasing:SteelDiameter:8Measuring:1562

Land surfa: Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1956
 Total dept:
 212

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 141
 Longitude:
 -101.30316501765

 Latitude:
 48.2460344188948
 Site id:
 ND5000000027873

M55 NNW ND WELLS ND500000027872

1/2 - 1 Mile Lower

Site index: 11429 Location: 15508314DBA1 Swc well n: 2233 County: Ward Souris River Aquifer: Minot Basin: Purpose: Observation Well Casing: ABS Diameter: 1.25 Measuring:

Land surfa: 1568 Elev type: Elevation Derived from Topo Map

 Date drill:
 05/14/1964
 Total dept:
 293

 Bedrock de:
 278
 Top screen:
 0

 Bottom scr:
 170
 Longitude:
 -101.303234764407

 Latitude:
 48.246033942549
 Site id:
 ND500000027872

N56 NW FED USGS USGS2911598

1/2 - 1 Mile Lower

TC03344483.8r Page A-49

Agency cd: USGS Site no: 481435101182800

Site name: 155-083-14CDA

 Latitude:
 481435
 EDR Site id:
 USGS2911598

 Longitude:
 1011828
 Dec lat:
 48.24306512

 Dec lon:
 -101.3082179
 Coor meth:
 M

 Dec Ion.
 -101.3082179
 Coor Intell.
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: NESESWS14T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1550

Altitude method: Interpolated from topographic map
Altitude accuracy: 5.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19600101

Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 139 Hole depth: Not Reported

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 53.00

M57
NNW ND WELLS ND500000027871

1/2 - 1 Mile Lower

 Site index:
 15132
 Location:
 15508314DBB

 Swc well n:
 2234
 County:
 Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1569 Elev type: Elevation Derived from Topo Map

 Date drill:
 05/14/1964
 Total dept:
 200

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.303402683436

 Latitude:
 48.246013611278
 Site id:
 ND500000027871

Map ID Direction Distance

Elevation Database EDR ID Number

58 WNW 1/2 - 1 Mile Lower

Site index: 14346 Location: 15508314CDA2

13007 Ward Swc well n: County: Basin: Souris River Minot Aquifer: **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1557.83 Land surfa: 1556.24 Elev type: Survey 0.01 ft 06/29/1992 Total dept: 200 Date drill:

158 138 Bedrock de: Top screen:

-101.309053485237 Bottom scr: 143 Longitude: Latitude: 48.2423353351957 Site id: ND5000000027852

N59 WNW 1/2 - 1 Mile Lower

ND WELLS ND5000000027853

15501 Location: 15508314CDA3 Site index: Swc well n: 13168 County: Ward Souris River Basin: Aquifer: Souris Valley **Observation Well** PVC Purpose: Casing: Diameter: 2 Measuring: 1558.42 1556.42 Survey 0.01 ft Land surfa: Elev type:

Date drill: 05/25/1993 Total dept: 40 Bedrock de: 0 Top screen: 22

-101.309054541593 27 Bottom scr: Longitude: 48.2424038433932 ND5000000027853 Latitude: Site id:

O60 ENE

ND WELLS ND5000000027756

1/2 - 1 Mile Lower

> 15508324AAA1 15192 Site index: Location:

County: Swc well n: 2217 Ward Souris River Basin: Aquifer: Minot Purpose: Observation Well - Destroyed Casing: ABS Diameter: 1.25 Measuring: 1560

Land surfa: 1560 Elev type: Elevation Derived from Topo Map

11/19/1963 Total dept: Date drill: 128 Bedrock de: 0 Top screen:

Bottom scr: 110 Longitude: -101.276672685785

48.2386756904724 ND5000000027756 Latitude: Site id:

M61 NNW 1/2 - 1 Mile Lower

ND WELLS ND5000000027875

ND WELLS

ND5000000027852

Site index: 29003 Location: 15508314DBA

Swc well n: 2234 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose:Test HoleCasing:NoneDiameter:0Measuring:0

Land surfa: 0 Elev type: Not Reported

 Date drill:
 05/14/1964
 Total dept:
 189

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.302858198696 Latitude: 48.2463626464586 Site id: ND500000027875

O62
ENE ND WELLS ND500000027754
1/2 - 1 Mile

1/2 - 1 Mi Lower

> Site index: 15193 15508324AAA2 Location: Swc well n: 2217A County: Ward Basin: Souris River Aquifer: Souris Valley Purpose: Observation Well - Destroyed Casing: ABS

Diameter: 4 Measuring: 1560

Land surfa: 1560 Elev type: Elevation Derived from Topo Map

 Date drill:
 11/19/1963
 Total dept:
 40

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 40
 Longitude:
 -101.276594703637

 Latitude:
 48.2386734649074
 Site id:
 ND500000027754

P63
NNE
ND WELLS
ND5000000027881

1/2 - 1 Mile Higher

Site index: 14531 Location: 15508313BDDC1

Swc well n: 13122A County: Ward Aquifer: Minot Basin: Souris River PVC Purpose: **Observation Well** Casing: Diameter: 2 Measuring: 1589.16 Survey 0.01 ft Land surfa: 1587.06 Elev type: Date drill: 10/27/1992 Total dept: 230 Bedrock de: 222 Top screen: 178

Bottom scr: 183 Longitude: -101.287433846642 Latitude: 48.2471548236931 Site id: ND500000027881

N64 NW ND WELLS ND500000027857 1/2 - 1 Mile

Lower

Site index: 11428 Location: 15508314CDA
Swc well n: MIN. 10 County: Ward

Basin:Souris RiverAquifer:MinotPurpose:Observation Well - DestroyedCasing:SteelDiameter:12Measuring:1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 10/29/1960
 Total dept:
 139

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 139
 Longitude:
 -101.309084100304

 Latitude:
 48.2427242923678
 Site id:
 ND500000027857

Map ID Direction Distance

Elevation Database EDR ID Number

NNE 1/2 - 1 Mile

ND WELLS ND5000000027880

Higher

Site index: 14532 Location: 15508313BDDC2

13122B Ward Swc well n: County: Souris River Minot Basin: Aquifer: **Observation Well** PVC Purpose: Casing: Diameter: Measuring: 1589.02 Land surfa: 1587.42 Elev type: Survey 0.01 ft 10/28/1992 Total dept: 140 Date drill: 0 Bedrock de: Top screen: 118

-101.287195552612 Bottom scr: 123 Longitude: Latitude: 48.2471344941101 Site id: ND5000000027880

NNW 1/2 - 1 Mile Higher

ND WELLS ND500000027886

11427 Location: 15508314ADD Site index: Swc well n: **ERICKSO** County: Ward

Basin: Souris River Aquifer: Surface Water Purpose: Surface Water Monitoring Site Casing: Not Reported

Diameter: Measuring: 1675

Land surfa: 0 Elev type: Elevation Derived from Topo Map

Date drill: 00/00/00 Total dept: Bedrock de: 0 Top screen: 0 0

-101.297834264147 Longitude: Bottom scr: 48.2481453429149 ND5000000027886 Latitude: Site id:

Q67 East

ND WELLS ND5000000027675 1/2 - 1 Mile

Lower

14355 Site index: Location: 15508324ADDA2

Swc well n: 13014B County: Ward Souris River Basin: Aquifer: Souris Valley Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1549.48 Land surfa: 1548.28 Elev type: Survey 0.01 ft

07/24/1992 Total dept: 40 Date drill: Bedrock de: 0 Top screen: 20

Bottom scr: 25 Longitude: -101.275343671927 48.2348037487285 ND5000000027675 Latitude: Site id:

Q68 East 1/2 - 1 Mile Lower

ND WELLS ND5000000027677

 Site index:
 14354
 Location:
 15508324ADDA1

Swc well n: 13014A County: Ward Basin: Souris River Aquifer: Minot PVC Purpose: Observation Well Casing: Diameter: 2 Measuring: 1549.62 Land surfa: 1548.14 Elev type: Survey 0.01 ft

 Date drill:
 07/22/1992
 Total dept:
 180

 Bedrock de:
 169
 Top screen:
 118

Bottom scr: 123 Longitude: -101.275274101783 Latitude: 48.2348151699464 Site id: ND500000027677

69
ENE ND WELLS ND500000027824

1/2 - 1 Mile Lower

> Site index: 14534 Location: 15508313DDD 13120 County: Swc well n: Ward Basin: Souris River Aquifer: Minot Purpose: **Observation Well** Casing: PVC Diameter: Measuring: 1551.92 Survey 0.01 ft Land surfa: 1549.92 Elev type:

 Date drill:
 10/23/1992
 Total dept:
 180

 Bedrock de:
 164
 Top screen:
 107

 Bottom scr:
 112
 Longitude:
 -101.276633570018

 Latitude:
 48.2407451105967
 Site id:
 ND5000000027824

R70 West 1/2 - 1 Mile Lower

 Site index:
 11452
 Location:
 15508323BB

 Swc well n:
 CT 10
 County:
 Ward

Swc well n:CT 10County:WardBasin:Souris RiverAquifer:MinotPurpose:Observation WellCasing:UnknownDiameter:5Measuring:1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 126

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 126
 Longitude:
 -101.3132048272

 Latitude:
 48.2383136125015
 Site id:
 ND500000027737

71
West ND WELLS ND500000027683

1/2 - 1 Mile Lower

Site index: 14345 Location: 15508323BCA

Swc well n: 13011 County: Ward Souris River Aquifer: Minot Basin: Purpose: **Observation Well** Casing: **PVC** Diameter: 2 Measuring: 1558.21

Land surfa: 1556.63 Elev type: Global Position Survey

 Date drill:
 07/21/1992
 Total dept:
 127

 Bedrock de:
 0
 Top screen:
 118

Bottom scr: 123 Longitude: -101.313579696137 Latitude: 48.2355018743335 Site id: ND500000027683

ND WELLS

ND5000000027737

Map ID Direction Distance

Elevation Database EDR ID Number

WNW

1/2 - 1 Mile

ND WELLS ND5000000027815

ND5000000027817

ND5000000027735

ND WELLS

ND WELLS

15508323BAB2

Lower

S72

Site index: 11451 Location: 15508323BAB3 2227A Swc well n: County: Ward Souris River Souris Valley Basin: Aquifer: **Observation Well** ABS Purpose: Casing: Diameter: 1.25 Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

05/11/1964 Total dept: 21 Date drill: 0 Bedrock de: Top screen:

-101.312816021785 Bottom scr: 21 Longitude: Latitude: 48.2399634165778 Site id: ND5000000027815

S73 WNW 1/2 - 1 Mile

Site index:

Lower

Location:

Swc well n: 2227 County: Ward Basin: Souris River Aquifer: Minot Observation Well - Plugged Purpose: Casing: ABS 1.25 Diameter: Measuring: 1550

11450

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

Date drill: 05/11/1964 Total dept: 120 Bedrock de: 0 Top screen: 0

-101.312914646095 118 Longitude: Bottom scr: 48.239973697317 ND5000000027817 Latitude: Site id:

R74 West 1/2 - 1 Mile

Lower

15508323BBA5 Site index: 11456 Location:

Swc well n: 2226 Ward County: Souris River Basin: Aquifer: Minot Purpose: Observation Well - Plugged Casing: ABS Diameter: 1.25 Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

05/07/1964 Total dept: 117 Date drill: Bedrock de: 0 Top screen: 114

Bottom scr: 117 Longitude: -101.313905740766 48.2382731348976 ND5000000027735 Latitude: Site id:

R75 West 1/2 - 1 Mile Lower

ND WELLS ND5000000027738

 Site index:
 11457
 Location:
 15508323BBA6

Swc well n: 2226A County: Ward Basin: Souris River Aquifer: Souris Valley Purpose: **Observation Well** Casing: ABS Diameter: 1.25 Measuring: 1550

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 05/07/1964
 Total dept:
 21

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 21 Longitude: -101.313914752632 Latitude: 48.2383251444349 Site id: ND500000027738

T76
West FED USGS USGS2911752
1/2 - 1 Mile

Lower

Agency cd: USGS Site no: 481413101185000

Site name: 155-083-23BBD

 Latitude:
 481413
 EDR Site id:
 USGS2911752

 Longitude:
 1011850
 Dec lat:
 48.23695398

 Dec Ion:
 -101.3143291
 Coor meth:
 M

 Coor accr:
 F
 Latlong datum:
 NAD27

 Dec latlong datum:
 NAD83
 District:
 38

 State:
 38
 County:
 101

Country: US Land net: SENWNWS23T155NR083W5

Location map: Not Reported Map scale: Not Reported

Altitude: 1554

Altitude method: Interpolated from topographic map

Altitude accuracy: 1.

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: Upper Souris. North Dakota. Area = 2340 sq.mi.

Topographic: Valley flat

Site type: Ground-water other than Spring Date construction: 19610101 Date inventoried: Not Reported Mean greenwich time offset: CST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: BURIED GLACIOFLUVIAL DEPOSITS

Well depth: 130 Hole depth: Not Reported

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data count: 0 Peak flow data end date: 0000-00-00 Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count: 0

Ground water data begin date: 1966-08-01 Ground water data end date: 1966-08-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1966-08-01 52.00

Map ID Direction Distance

Elevation Database EDR ID Number

ENE 1/2 - 1 Mile ND WELLS ND500000027800

Lower

Site index: 15066 Location: 15508219BB Swc well n: GN RR County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1555 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 180

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.274343235065

 Latitude:
 48.2395653086429
 Site id:
 ND500000027800

T78 West 1/2 - 1 Mile Lower

est ND WELLS ND500000027700 2 - 1 Mile

Site index: 11469 Location: 15508323BBD Swc well n: MIN. 11 County: Ward Souris River Basin: Aquifer: Minot Purpose: Municipal Well Casing: Steel Diameter: 16 Measuring: 1554

Land surfa: 1554 Elev type: Elevation Derived from Topo Map

 Date drill:
 01/01/1961
 Total dept:
 130

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 130
 Longitude:
 -101.315284147744

 Latitude:
 48.2366849835333
 Site id:
 ND500000027700

U79 West 1/2 - 1 Mile

 Lower
 Site index:
 15182
 Location:
 15508323BC1

Swc well n: CT 3 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring: 0

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

 Date drill:
 00/00/00
 Total dept:
 75

 Bedrock de:
 0
 Top screen:
 0

 Bottom scr:
 0
 Longitude:
 -101.315386258952

 Latitude:
 48.23454384179
 Site id:
 ND5000000027670

U80 West 1/2 - 1 Mile Lower

ND WELLS ND500000027671

ND5000000027670

ND WELLS

15183 15508323BC2 Site index: Location:

Swc well n: CT 4 County: Ward

Basin: Souris River Aquifer: No Obs Well Installed Purpose: Test Hole Casing: None Diameter: 0 Measuring:

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

Date drill: 00/00/00 Total dept: 43 Bedrock de: Top screen: 0

-101.315386258952 0 Longitude: Bottom scr: ND5000000027671 Latitude: 48.23454384179 Site id:

U81

West 1/2 - 1 Mile Lower

> Site index: 15184 15508323BC3 Location:

CT₆ County: Swc well n: Ward

Souris River Basin: Aquifer: No Obs Well Installed

Purpose: Test Hole Casing: None Diameter: 0 Measuring:

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

00/00/00 Date drill: Total dept: 126 Bedrock de: Top screen: 0

Bottom scr: Longitude: -101.315386258952 ND5000000027672 Latitude: 48.23454384179 Site id:

T82

West 1/2 - 1 Mile Lower

Lower

Site index: 11468 Location: 15508323BBC5

Swc well n: 2235 County: Ward Souris River Aquifer: Basin: Minot Purpose: **Observation Well** Casing: ABS Diameter: 1.25 Measuring:

Land surfa: 1550 Elev type: Elevation Derived from Topo Map

Date drill: 05/15/1964 Total dept: 100 0 Bedrock de: Top screen: 0

Bottom scr: -101.315525229577 100 Longitude: 48.2366230178311 ND5000000027698 Latitude: Site id:

83 WNW **ND WELLS** ND500000027797 1/2 - 1 Mile

15096 15508323BBA2 Site index: Location:

Swc well n: 2223 County: Ward Souris River Aquifer: Minot Basin: Purpose: Observation Well - Plugged Casing: ABS Diameter: 4 Measuring: 1550

1550 Land surfa: Elev type: Elevation Derived from Topo Map

Date drill: 05/04/1964 Total dept: 117 Bedrock de: Top screen:

-101.314962648153 Bottom scr: 116 Longitude: 48.2394936151977 ND5000000027797 Latitude: Site id:

ND WELLS

ND WELLS

ND5000000027672

ND5000000027698

Map ID Direction Distance

Elevation Database EDR ID Number

84 West 1/2 - 1 Mile

ND WELLS ND500000027752

1/2 - 1 Mile Lower

> Site index: 11455 Location: 15508323BBA4 2225A Swc well n: County: Ward Basin: Souris River Souris Valley Aquifer: Purpose: **Observation Well** Casing: ABS

Diameter: 1.25 Measuring: 1550
Land surfa: Elev type: Elevation Derived from Topo Map

 Date drill:
 05/05/1964
 Total dept:
 21

 Bedrock de:
 0
 Top screen:
 0

Bottom scr: 0 Longitude: -101.315342836774
Latitude: 48.2386139792137 Site id: ND5000000027752

AREA RADON INFORMATION

State Database: ND Radon

Radon Test Results

Source	Total Sites	Average	Std. Dev.	Pct > 4 Pci/L	Pct > 20 Pci/L
					
wic	75	4.47	5.09	38.7	2.7
school	611	1.22	1.16	3.1	0.0
home	49	4.2	3.5	44.9	2.0
daycare	67	3.25	2.90	22.4	0.0
cluster	2	4.20	2.90	50.0	0.0
wic	2	0.95	0.15	0.0	0.0

Federal EPA Radon Zone for WARD County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 58701

Number of sites tested: 35

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.531 pCi/L	85%	15%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.894 pCi/L	43%	54%	3%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map. USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Locations

Source: State Water Commission Telephone: 701-328-2754

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Listing

Source: North Dakota Industrial Commission

Telephone: 701-328-8020

A listing of oil and gas well locations in the state.

RADON

State Database: ND Radon Source: Dept of Health Telephone: 701-328-5188

Radon Surveys in North Dakota. Includes cluster, day care, school, home, and women with infant children

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Appendix D

Historical Documentation



Minot Site 2
1st Street SW/1st Avenue SW
Minot, ND 58701

Inquiry Number: 3344483.11

June 14, 2012

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc., All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Date EDR Searched Historical Sources:

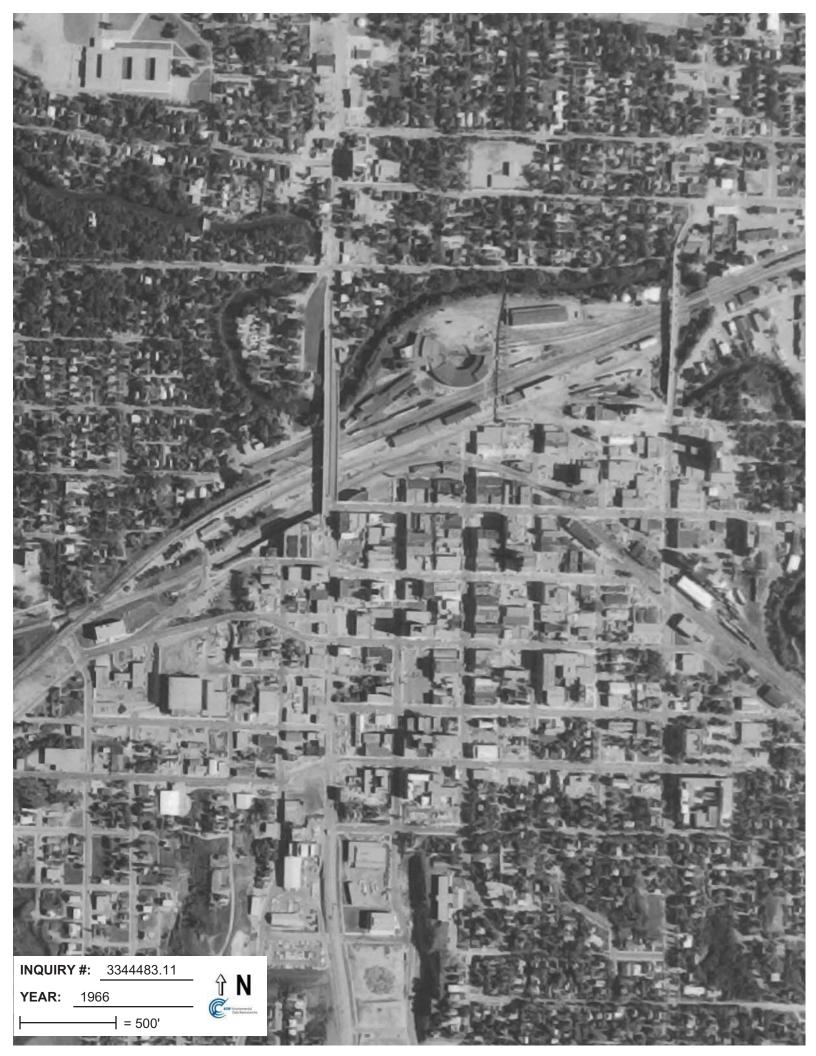
Aerial Photography June 14, 2012

Target Property:

1st Street SW/1st Avenue SW Minot, ND 58701

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1946	Aerial Photograph. Scale: 1"=750'	Panel #: 48101-B3, Minot, ND;/Flight Date: December 15, 1946	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 48101-B3, Minot, ND;/Flight Date: August 16, 1966	EDR
1974	Aerial Photograph. Scale: 1"=1000'	Panel #: 48101-B3, Minot, ND;/Flight Date: August 15, 1974	EDR
1982	Aerial Photograph. Scale: 1"=1000'	Panel #: 48101-B3, Minot, ND;/Flight Date: April 26, 1982	EDR
1984	Aerial Photograph. Scale: 1"=1000'	Panel #: 48101-B3, Minot, ND;/Flight Date: June 29, 1984	EDR
1992	Aerial Photograph. Scale: 1"=750'	Panel #: 48101-B3, Minot, ND;/Flight Date: August 18, 1992	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 48101-B3, Minot, ND;/Composite DOQQ - acquisition dates: May 18, 1995	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 48101-B3, Minot, ND;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 48101-B3, Minot, ND;/Flight Year: 2006	EDR



















Minot Site 2
1st Street SW/1st Avenue SW
Minot, ND 58701

Inquiry Number: 3344483.10

June 14, 2012

EDR Historical Topographic Map Report



EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

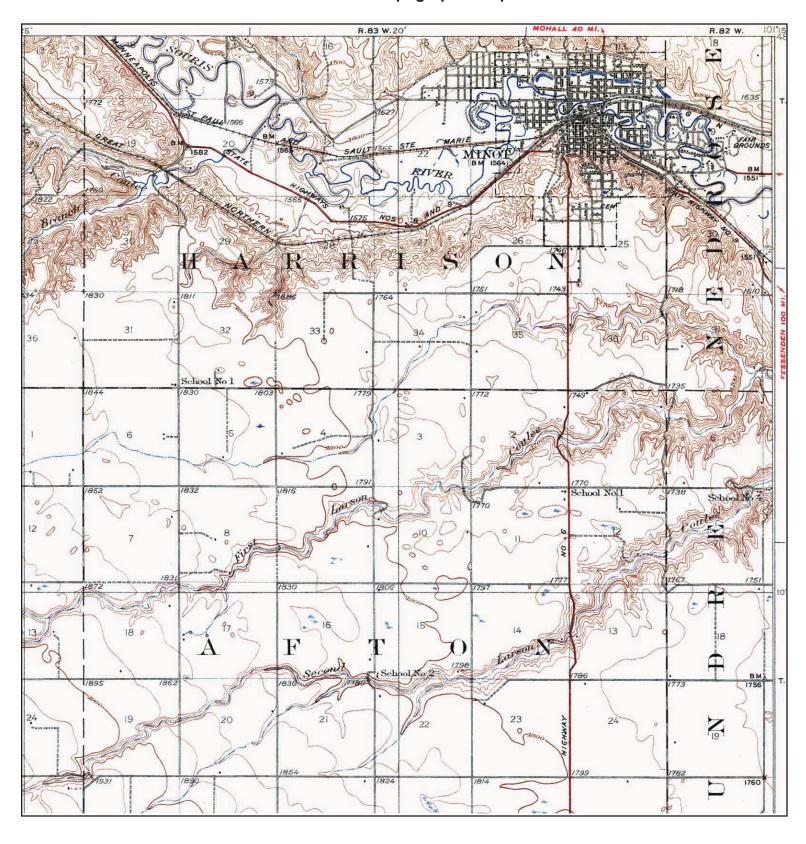
Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



N

TARGET QUAD NAME: MINOT

MAP YEAR: 1928

SERIES: 15 SCALE: 1:62500 SITE NAME: Minot Site 2

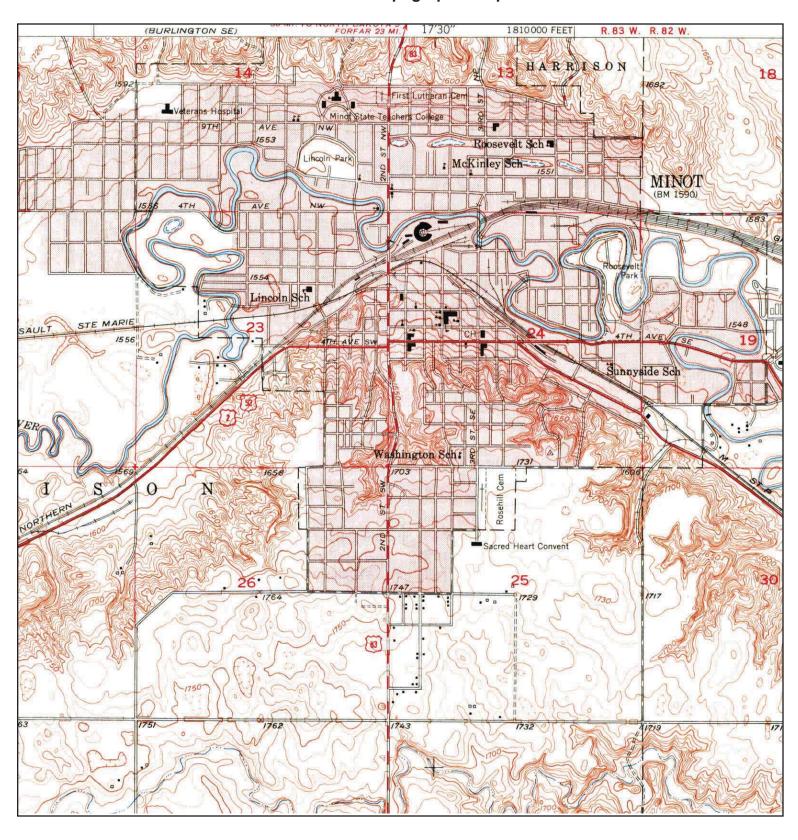
ADDRESS: 1st Street SW/1st Avenue SW

Minot, ND 58701

LAT/LONG: 48.2359 / -101.2941

CLIENT: TriMedia
CONTACT: Derek Senn
INQUIRY#: 3344483.10

RESEARCH DATE: 06/14/2012



N

TARGET QUAD NAME: MINOT

MAP YEAR: 1949

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Minot Site 2

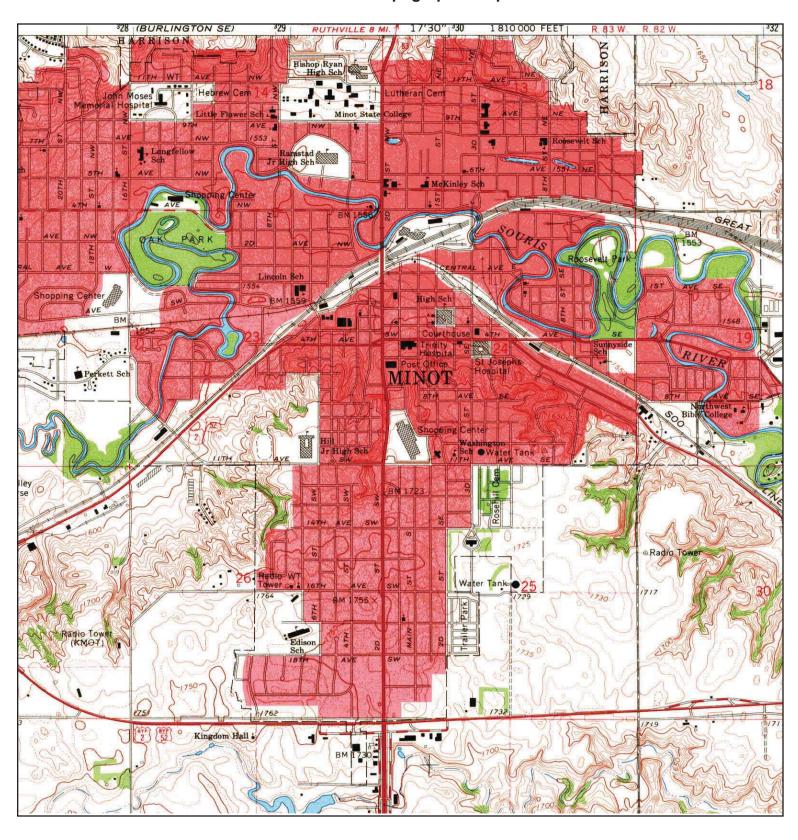
ADDRESS: 1st Street SW/1st Avenue SW

Minot, ND 58701

LAT/LONG: 48.2359 / -101.2941

CLIENT: TriMedia
CONTACT: Derek Senn
INQUIRY#: 3344483.10

RESEARCH DATE: 06/14/2012



N

TARGET QUAD NAME: MINOT

MAP YEAR: 1966

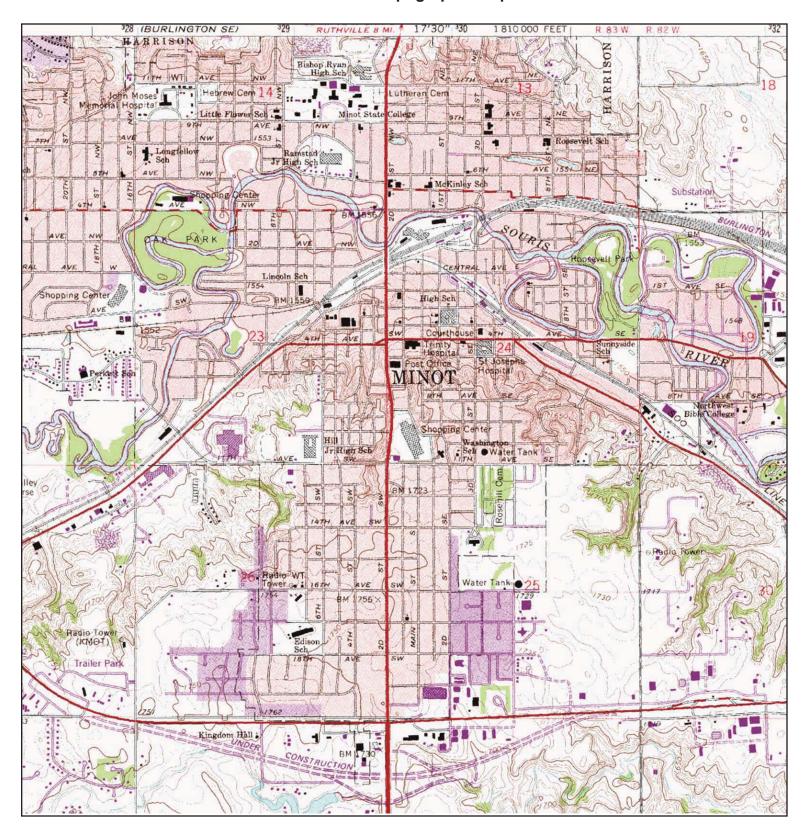
SERIES: 7.5 SCALE: 1:24000 SITE NAME: Minot Site 2

ADDRESS: 1st Street SW/1st Avenue SW

Minot, ND 58701

LAT/LONG: 48.2359 / -101.2941

CLIENT: TriMedia
CONTACT: Derek Senn
INQUIRY#: 3344483.10
RESEARCH DATE: 06/14/2012





TARGET QUAD NAME: MINOT MAP YEAR: 1979

PHOTOREVISED FROM: 1966

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Minot Site 2

ADDRESS: 1st Street SW/1st Avenue SW

Minot, ND 58701

LAT/LONG: 48.2359 / -101.2941

CLIENT: TriMedia
CONTACT: Derek Senn
INQUIRY#: 3344483.10
RESEARCH DATE: 06/14/2012

Minot Site 2

1st Street SW/1st Avenue SW Minot, ND 58701

Inquiry Number: 3344483.12

June 18, 2012

The EDR-City Directory Image Report



TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING. WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2012	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
2005	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1999	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1993	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1987	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1981	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1975	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1969	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory
1963	$\overline{\checkmark}$	$\overline{\checkmark}$	Polk's City Directory

RECORD SOURCES

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

FINDINGS

TARGET PROPERTY STREET

1st Street SW/1st Avenue SW Minot, ND 58701

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
1st St SW		
2012	pg A1	Polk's City Directory
2005	pg A2	Polk's City Directory
1999	pg A3	Polk's City Directory
1999	pg A4	Polk's City Directory
1993	pg A5	Polk's City Directory
1993	pg A6	Polk's City Directory
1987	pg A7	Polk's City Directory
1987	pg A8	Polk's City Directory
1981	pg A10	Polk's City Directory
1981	pg A9	Polk's City Directory
1975	pg A11	Polk's City Directory
1969	pg A12	Polk's City Directory
1969	pg A13	Polk's City Directory
1969	pg A14	Polk's City Directory
1963	pg A15	Polk's City Directory
1963	pg A16	Polk's City Directory

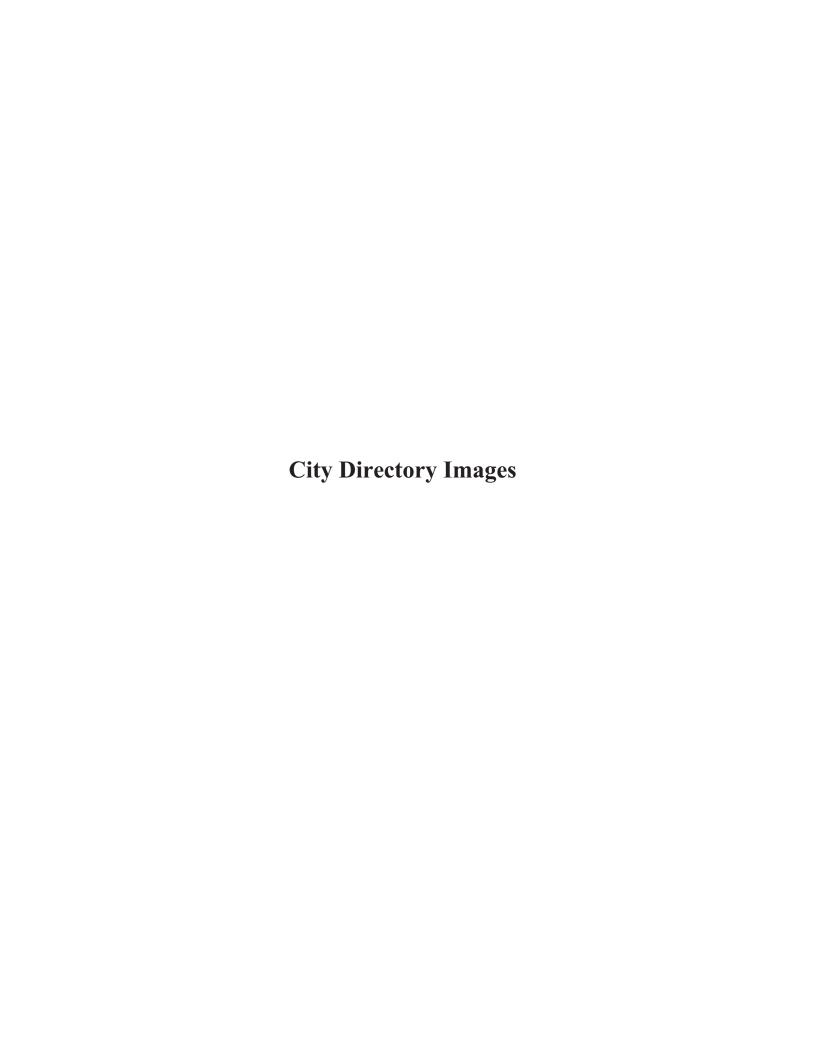
3344483-12 Page 2

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
1st Ave SW		
2012	pg. A17	Polk's City Directory
2005	pg. A18	Polk's City Directory
2005	pg. A19	Polk's City Directory
1999	pg. A20	Polk's City Directory
1993	pg. A21	Polk's City Directory
1993	pg. A22	Polk's City Directory
1987	pg. A23	Polk's City Directory
1981	pg. A24	Polk's City Directory
1975	pg. A25	Polk's City Directory
1969	pg. A26	Polk's City Directory
1963	pg. A27	Polk's City Directory
1963	pg. A28	Polk's City Directory

3344483-12 Page 3



BUSINESSES 14	HOUSEHOLDS 176
1ST ST SW (MINOT) • ZIP CODE 58701 CAR-RT C001 2 TOM'S COIN STAMP GEM BASEBA	
6 RAYMOND JAMES financial advisor Rothchild David G & June 9 10 JAMIE HAALAND optometrists od 1 @ Heinl Sayuri	701-839-4288 701-839-5000
3 Merck Charles D 22	701-839-1480
C VISION SOURCE optometrists of 20 BREMER BANK banks	701-852-3361 ent securities701-857-6223 701-857-6240
201 LEGAL SERVICES OF NORTH	701-837-1841 H DAKOTA attorneys
	701-852-3870
	701-852-3328
US FIRE MANAGEMENT OFFICE	
B1 CNV SERVICE CO serv 105 SENATOR KENT CONRAD G	
116 CONKLIN JULIE dental hygienists FAMILY DENTAL CLINIC dentists FERRELL TRANSPORT trucking MERIT CARE HEALTH CARE AC	701-839-1299 701-852-1036 CES physicians & surgeons
NESET CHERI dental hygienists B AMERIPRISE FINANCIAL finan	
D COPPERHEAD CORP oil land I E FERRELL NORTH AMERICA W bulk	701-857-6088 ntrols control sys/regulator
123 2 Prough Peggy 5 4 Billings David A 12 • ZIP CODE 58701 CAR-RT C004 1111 © Huey Aldon	701-839-9276
Huey Jamie 1115 ♥ Woods Corey J ▲	
1110 Doobler Dishard 1 20 A	701 020 0200

Polk's City Directory

1st St SW

2005 3740 No Current Listing BUSINESSES 14 HOUSEHOLDS 162 1ST ST SW (MINOT)-FROM 99 CENTRAL AVE W SOUTH ** 1ST ST NW INTERSECTS

* ZIP CODE 58701 CAR-RT COO1

2 TOM'S COIN STAMP GEM BASEBALL coin dirs supi & 701-852-45 etc701-852-4522 6 RAYMOND JAMES FINANCIAL SVC investment .701-857-6227 INVESTMENT CENTERS OF AMERICA financial advisory serv 701-857-6223
PETRICK & YOUNGS TAX SVC INC tax return
preparation/filing 701-852-6274
201 PRINGLE & HERIGSTAD attorneys ..701-852-0381
ISTAVE SWINTERSECTS. + 1ST AVE SW INTERSECTS
100 CNV SERVICE CO serv US SOCIAL SECURITY ADM tederal government 105 SENATOR BYRON DORGAN government offices 123 MINOT SENIOR HIGH SCHOOL schools ..701-858-6700 4 CENTER FOR FAMILY MEDICINE psychologists .701-858-6700 4 CHRISTENSEN THOMAS MD physicians & 4 KHAN SHAZIA MD physicians & surgeons701-858-6700 4 KNUTSON SCOTT MD physicians & su + 16 4 MIDHA VHAL MD physicians & surgeons ..701-858-6700 4 PATEL KHAN MD physicians & surgeons 4 RICKERIULIE psychologists701-858-6700 4 SAGRI MINA MD physicians & surgeons 0 4 SCHMIJAMES MD physicians & surgeons 00701-858-6700 700

Get Mailing Lists, Sales Leads, and

1	BUSINESSES 13 HOUSEHOLDS 189
1	1ST ST SW (MINOT)-FROM 99 CENTRAL
1	AVE W SOUTH + 1ST ST NW BEGINS
1	ZIP CODE 58701 CAR-RT C001
1	
1	2 Fitzpatrick Thomas E 19+
1	TOM'S COIN & STAMP GEM
1	BASEBALL book stores852-4522 6@Blume Harold A
	INVESTMENT MANAGEMENT & RES
ı	mamt coston sycs 839-4288
۱	ØRothchild David G839-4288
ı	10@Evans Shawn T
1	KILENE DONALD D optmtrst839-5000 Nyre Verne L 🗓+ 🏚
ı	NYRE BOB optmtrst
ı	©Pickerel Toni
ı	PRECISION EYE CARE COMPANY
	professnl equip 852-9410 ©Smith M 852-6117
	©Smith M
	@Wood R L
	WOOD R L ofcs clns of dntst 852-3939
	2 Russell Timothy I [6] 838-1590
	3 Merck Charles D 2+ 838-7447 4 Raynaas Jon P 4 852-2599
	4 Raynaas Jon P 4 852-2599 6 Not Verified
	8@Graham Ronald J
	9@Faulkner Nick852-6744
	9 Faulkner Neal R852-6744
	10 Not Verified
	20 FIRST AMERICAN BANK state commrcl
1	banks
	FIRST AMERICAN INSURANCE
	AGENCIES heatt mdcl svc pin
	©Hays Mark
	©Hays Mark
5	INVEST FINANCIAL CORPORATION
	mgmt cnsltng svcs
j	Larson Carol K [2]852-0381
)	ØMahoney Mitchell
:	ØNegaard Donald
4 4	OPetrik John J852-0381
	PRINGLE & HERIGSTAD PC legal svcs
0	852-0381
0	©Purdy Mark
2	©Sebby Jan M
	Vandal Leo E [3]
9	OWentz Thomas A Jr852-0381
	+ 1ST AVE SW INTERSECTS
16	100@Conrad Kent
4	Ind mnl wdlf cnsr852-0318
	104 SOCIAL SECURITY
	ADMINISTRATION admn soc mnpwr
	pgm852-3191
)5	105 DORGAN CONRAD SENATE
)5	OFFICE political orgnztns 852-0703 312 INTERNAL REVENUE SERVICE
	govt ofc 852-5946
y.	116 FAMILY DENTAL CLINIC dentists
1	839-1299
	HEALTHCARE ACCESSORIES med
	equip & sup
1	LUMBET LANG LDD miss production
	839-4338
	Lamont Robert J [2]
	I AMONT & SKOWRONEK PC legal svcs
	852-7002
6	Mayo Kevin R852-7002
6	MERCER ENGINEERING PC CORP eng sycs 839-1056
	Skowronek John [5] 852-7002
8	4
1	B AMEX FINANCIAL ADVISORS
	investment advice838-5322

1ST ST SW (M) cont'd
F BUMMER BARRY M ofcs hith prnrs
123 DIRECTEL busn svcs 857-6000
FAMILY PHARMACY drug store 852-4477
JOHNSON CAROLE phys 857-5753
ØKuster Charleen 839-2996
Martinsen Wayne 857-5753
Mattson Steven R 4
MINOT CENTER FOR FAMILY
MEDICINE medical clinic 858-6700
MINOT REGIONAL CHILD SUPPORT
ENFORCEMENT indvdl family svcs
N R P TELEPHONE ANSWERING
SERVICE busn svcs
TRINITY MENTAL HEALTH SERVICES
spty otpnt clns
U N D SCHOOL OF MED & HLTH
SCIENCES N W CAMPUS .858-6774 Widman Lawrence
Widman Lawrence 857-5753
2 MIRROR MIRROR SKIN & HAIR
CARE beauty shops852-6113
2 SAMARITAN CENTER THE indvdl
family svcs857-5998
701 ERICKSON DAVID acct 852-1040
801 GENTILE JOHN C dentist 838-1113
801 N W AREA HEALTH EDUCATION
CENTER colleges'univ 857-7694
+ 2ND AVE SW INTERSECTS
201@Nostdahl James E852-0381
217 Bloms Kelly J [2] 852-8748
218 ZION LUTHERAN CHURCH religious
orgs852-1872
+ 3RD AVE SW INTERSECTS
+ BURDICK EXPY W INTERSECTS
+ 5TH AVE SW INTERSECTS
+7TH AVE SW INTERSECTS
+ BEACON ST ENDS
+ 11TH AVE SW CONTINUES
ZIP CODE 58701 CAR-RT C021
1111 Not Verified
1.1.1 Tormod

Source
Polk's City Directory

1st St SW

1993

3 1ST ST SW -FROM CENTRAL AV SOUTH 1 WEST OF MAIN ST • ZIP CODE 58701 MAIN ST INTERSECTS 2 TOM'S COIN STAMP & GEM SHOP 852-4522 6 INVESTMENT MANAGEMENT & RESEARCH INC fin plng 839-4288 8 Not Verified 10 KILENE DONALD D optom 839-5000 WOOD REGINALD L dentist 852-3939 Apartments A 1 Boughey Lynn M 2 852-7062 2 Vacant 3 Merk Chuck D 2 838-7447 4 Kunkel Renelle N 2 5 Anderson Tillie 9+ 6 Nolan 2 7 Holmen Bonnie L 2 852-0334 8★Dillon B 9 Lloyd Mathew J 2 839-7769 10 Beckedahl Bryan J 2 839-7747 11 Morken 2 14 PARKING LOT 20 FIRST AMERICAN BANK WEST 852-3361 PRINGLE & HERIGSTAD lwyrs 852-0381

Polk's City Directory

1st St SW

1ST ST SW	-Contd	• 4TH AV SW INTERSECTS
Suites	MANN & ASSOCIATES C P A	TRINITY MEDICAL CENTER THE AV S W INTERSECTS
852-20	002	9-A
255 NEW	YORK LIFE INSURANCE CO ins-	• 11TH AV SW INTERSECTS
other	fin serv 838-0773 SE & PETRICK TAX SERVICE	1111 Haudan Mary 1 9+ @ 838-1442
852-6	274	1115 Davis Terry M & Tamae E 2 852-5338
20 FIRST AM	IERICAN INSURANCE	1119 Poehler Bessie A 9+ @ 838-9290 Poehler Richd J 838-9290
	ES 857-6227 SW INTERSECTS	1121 Sailer Brian L & Janell M 2 839-6317
100 U S FEI	DERAL BUILDING 839-4155	1201 Ryba Clarence M 5 © 838-5890 1203 Buee Esther E 2 838-9459
Rooms	ENERAL SERVICES ADMN	1207 Tudahl Brady L & Brenda I. 2
839-41		839-3294
103 U S	INTERIOR DEPT (FISH &	1211-1215 Vacant (2 Hses) • 13TH AV SW INTERSECTS
WIL NO	DLIFE SERV) 852-0318 DEPT HLTH & HUMAN SERVS	1301 Fraley Floyd R & Virginia P 9+ @
(SO	CL SECURITY ADMN) 852-3191	839-2642
	CONGRESS (SENATE) 852-0703	1302★Peterson Marlys E 839-2318 Peterson Eugene 839-2318
109 Vac		1304 Schneider Lisa A 2 838-1903
201 U S	PROBATION OFFICE 839-7960	Jundt Mark A 838-1903
204 U S	FEDERAL BUREAU OF	1304½★Myers Mike 838-6914 Lemon Lori 838-6914
	ESTIGATION (RES AGT) -5071	1306 JUNDT'S FULL SERVICE (STGE)
205 U S	DIST CT (REPORTER)	1311 Borud John A & Charlotte V 9+ ®
212 U S	DISTRICT COURT	838-0079 1314 NORTHWESTERN ELECTRIC INC elec
	S DIST COURT (LIBRARY) S JURY RM	contract 852-0324
216 U	S COURT LIBRARY (ADDL SP)	1319 Schmaltz Leo M & Yvonne F 9+ ⊚
217 U	S DIST CT (CLK) 839-6251	839-5316 1331 Martin Warren W & Bonita E 9+ ®
	S MAGISTRATE S MARSHAL 839 6278	838.3455
991 11	MARSHAL (ADDL SPACE)	1335 Kallias Larry J 9+ @ 839-5212 1341 Clott Jerald M & Joan M 9+ @
302 U	S DEPT OF ENVIRONMENTAL	838-8116
304 Va	TH 852-0250	• 14TH AV SW INTERSECTS
312 U	S INTERNAL REVENUE SERVICE	1 101 Christie Charles 838-1869
	FC)	1405 Vacant SOUTHWOOD CONDOMINIUM 839-1290
STREET O	CONTINUED	1411 Anderson Lillie 9+ @ 839-1659
116 Buildin	d	1413 Elder Olga W 9+ ⊗ 852-5450 1415 Holbach Bertha 9+ ⊗ 839-2458
A HEA	LTH CARE ACCESSORIES INC equip 852-4110	1417 Lindell Alan L 2 839-4800
BID	S FINANCIAL SERVICES INC fin	1419 Weishaar Albert & Ruby 6 @ 838-7194 1421 Ross Scott T 2 @ 838-6384
plan	ning conslts 838-5322 OFCS OF LAMONT SKOWRONEK	1423 Henderson Verna M 2 @ 838-5112
& DO	BROVOLNY 852-7002	1425 Holman Olga E ♥ ▼ ⊗ 838-3173
FAMIL	Y DENTAL CLINIC 839-1299	1427 Ostdahl Teri L 2 @ 839-0841 Johnson Larry W 839-0841
123 Vacant		1429 Akerlind Jennie 9 → © 839-8010
Vacan Vacan		1431 Brockey Irene D @ 839-1304
Rooms		1433 Haas Julius & Marion M 9+ 8 839-1290
300 V 304 V		1435 Pilch Jay & Delores 2 @ 839-2373
305 V		1437 Deckert Robt J & Kathy R 🕒 🕲
307 V		852-4360 1439 Leier Karen A 2 @ 852-4730
308 V 400 V		Leier Karen A 852-4730
406 V		1441 Killmer Earl G 2 @ 838-6489 1443 Grantier Edw A & Eliz M 9+ @
408 V	acant 7 Vacant (2 Businesses)	852-6388
	acant	1445 Murphy Nancy A 2 @ 839 1543
419 V	acant	1447 Johnson Violet L 9+ @ 838-1763 1449 Dixon Gladys Y 9+ @ 852-2748
420-5	03 Vacant (2 Businesses) 10 Vacant (2 Businesses)	1451 Not Verified
	acant	1453 Spear Viola S 7 @ 839-8758
507	/acant	1455 Keller Randal G 9 + © 838-1523 1457 Kenner Jeanine K 2 © 839-7235
	04 Vacant (6 Businesses) Vacant	Crandall David W 839-7235 1459 Lystvedt Sandra J 2 @ 839-0906
604	Vacant	1459 Lystvedt Sandra J 2 @ 839-0906 1461 Bloms Florence C 9+ @ 838-3885
606	Vacant	Plams Irene M 030:3000
712	12 Vacant (5 Businesses) Vacant	1463 Przymus Alex M & Jeanne F 🕒 🕲
800	Vacant	838-6436 1465 Johnson Ralph M & Clara A 3 9
804	Vacant 23 Vacant (2 Businesses)	838-0788
STREET	CONTINUED	rese blat Varified
		1517 Sorensen John W 4 @ 839-0105 5 1519 Vacant
200 PP4	Y'S CLEANERS & MINOT LAUNDRY	1505 Not Varified
INC	852-6161	1529 Sprenger Ludwig & Margie R
218 ZION	LUTHERAN CHURCH 852-1872	838-7965 1535 Howery Dort D & Doris A 19+ ®
3D A	V SW INTERSECTS NITY HOME & HOSPICE HEALTH	069 0403
857	5000	1541 Sowitch Frank J & Linda L 9+ ®
	NITY SERVICES BUILDING	838-0420

ST ST SE—Contd 1533*Mehl Connie Mrs 852-8514	10 Kilene Donald D optom 852-2171 Wood R Lynn dentist 852-3939
1534 La Fontaine Roger H © 839-5198	Apartments
1535 Selfors Rodney D ⊚ 839-4783	1 Goetz Peter P 852-2883
1540 Heath Mary H Mrs © 838-8805	2 Florence Evelyn R 839-1948
1541 Mc Coy Douglas J ⊚ 838-7680	3 No Return 4 Smiley S M 839-0289
16TH AV SE INTERSECTS	5 Anderson Tillie
1600 Sink Kath M Mrs ⊚ 838-0488	6 Scully Leone 839-1355
*Butterfield Jim L	
1601★Gulbranson Deleila A Mrs 838-7313	7*Hass Melanie J 839-0524
1608 Vacant	8 Park Lloyd E 852-6242 9 Kuntz Ray W 852-6616
1609 Weber Herbert H ⊚ 839-4708	10 No Return
1612 Lee Cyril M ⊚ 838-5573	11 Printz Jeff L 852-3540
1615 Gilbertson Robt A @ 852-1809	14 Parking Lot
1616 Vacant	20 First American Bank & Trust Of Minot
1617 Aardahl Mary L 852-4284	852-3361
1619 Aarhus Alma © 839-1829	Pringle & Herigstad lwyrs 852-0381
1620 Anderson Dennis H © 839-2766	250 Feldmann & Associates C P A
1621 Schriock Jerome F ⊚ 838-6525	
1624 Vacant	852-2002 255 Social Service Consultants Inc social
1627 Weishaar Willie © 839-3086	work 838-4449
1630 Olson Alvin F © 839-7231	260 Grosse & Petrick Tax Service 852-6274
1631 Berntsen Charles A © 839-2046	1ST AV SW INTERSECTS
1634 Zietz Gary C © 839-3901	100 Federal Building
1636 Wenzel Emma C ⊚ 838-2924	
1640 Baker Bruce © 838-6836	Rooms 003 U S General Services Admn 839-4155
1644 Burckhard Mary M Mrs © 838-8920	
17TH AV SE INTERSECTS	004 Vacant 103 U S Interior Dept Of Fish & Wildlife
1704 Bartsch Theo © 839-6382	Serv 852-0318
1705 Grina Jeff G ⊚ 838-8932	104 U S Social Security Admn 852-3191
1710 Juergens Curtis R © 839-7284	108 U S Agriculture Dept (Soil
1711 Getzlaff Rodney E © 852-4668	Conservation Serv) 838-0663
1715 Knoop Geo H © 838-5836	109 Storage
1718 Klein Raymond A © 838-4312	111 Storage
1719 Klein Pius © 852-1316	201 U S Probation Office
1722 Scott Robt ⊚ 852-1480 1723★Baker Robt B ⊚ 839-0771	204 Federal Bureau Of Investigation
1726 Clark Wayne M ⊚ 838-7438	852-5071
1727 Pokorny Barbara P © 838-1525	205 U S Dist Court Reporter
1730 Ogaard Raymond M © 838-7691	212 U S District Court
1731 Bakke Jerome L © 838-2390	213 U S Dist Court Library
1736 Mueller Melvin M 838-8089	214 U S Jury Rm
18TH AV SE INTERSECTS	216 U S Court Library (Addl Sp)
1801 Hagen T Melvin ⊚ 838-9326	217 U S Court Of Court Clerk 839-6251
1801 Hagen 1 Melvin © 800-9020	219 U S Magistrate
35	
3108 No Return	221 U S Marshal (Addl Space) 839-6278
3121 Storbeck Fred H © 838-4698	302 U S Health & Human Serv Dept
3301 Fettig Leonard © 839-6396	(Indian Health Serv) 852-0250
3309 Morlang Khris E	304 Vacant
3401 Under Constn	312 U S Internal Revenue Service (Ofc)
3601 Molina Lorretta B day care wkr	319 U S Senators Ofc
838-8922	STREET CONTINUED
Jan Marie Carlot Carlot	116 Downtown Red Owl gro 838-0524
3	
1ST ST SW —FROM CENTRAL AV	Building
SOUTH 1 WEST OF MAIN ST	Midwest Federal Savings Bank 852-1161
	Ruelle's Barber Service 838-9617
ZIP CODE 58701	Midwest Fed Saving Bank (Addl Space)
2 Tom's Coin Stamp & Gem Shop 852-4522	Bsmt Shirley Room Coffee Shop 839-5959
6 Great Plains Orthopedic & Ostomy Inc	Rooms
mastectomy orthopedics sups 839-4444	300 Midwest Fed (Addl Space) 00
8 Kilene Donald D (Ofc Space)	304 Midwest Federal (Addl Sp)

Polk's City Directory

1st St SW 1987

IDWEST FED SAV BLDG—Contd	4TH AV SW INTERSECTS
305 Midwest Federal (Addl Space)	404 Trinity Medical Center (School Of
307 Midwest Federal (Addl Sp)	Nursing) 857-5000
308 Midwest Federal (Addl Sp Rms 308-317)	5TH AV S W INTERSECTS
400 Northern Plains Life Insurance Co	9
852-0555	11TH AV SW INTERSECTS
400 Blue Cross Blue Shield Of North	1111 Haugen Mary L ⊚ 838-1442
Dakota 852-0555	1115 Bernhard Newton E ⊚ 838-1025
406 Midwest Federal (Addl Sp)	1119 Poehler Bessie A Mrs ⊚ 838-9290
408 Midwest Federal (Addl Sp)	1121★Oilund Roberta 838-5220
412 Midwest Federal (Addl Space)	1201 No Return
416 Baukol-Noonan Inc coal dirs whol	1203★Walker Brian P ⊚ 838-1868
852-2304	1207 Brown Carlise A 839-4900
417 Midwest Federal (Addl Sp)	1215 Ryba Clarence M ⊚ 838-5890
419 Midwest Fed (Addl Sp)	13TH AV SW INTERSECTS
420 Midwest Federal (Addl Sp)	1301 Fraley Floyd R ⊚ 839-2642
500 Delores' Skyrise Salon 839-1550	1302 Ensrude Eleanor 839-0428
503 Slorby Robt J lwyr 852-5636	1304★Assugres Rose
506 Eaton Van De Streek & Ward lwyrs	1304½ ★Bush Robt 852-1149
852-4837	1306 Jundt's Full Service (Stge)
510 Heidorn Gunther H phys 852-3400	1311 Borud John A ⊚ 838-0079
507 Dobson Raymond C ofc 839-8507	1314 Northwestern Progric Inc elec contract
508 Vacant	8520324
518 Midwest Insurance 852-6777	1319 Schmaltz Leo M © 839-5316
514 Soo Line Railroad 852-3119	1331 Martin Warren W @ 838-3455
516 Christian Science Reading Room	1335 Kallias Larry J ⊚ 839-5212
839-1515	1341 Clott Jerald M ⊚ 838-8116
512 Kotana Communications Inc tel	14TH AV SW INTERSECTS
answering serv sls 838-1446	1401 Murphy John D
516 Vacant	1405 Vacant
600 Doeksen-Gross Insurance Agents	1411 Southwood Condominium 852-4919
852-1258	Anderson Lillie Mrs ⊚ 839-1659
604 Midwest Federal (Ofc)	1413 Elder James @ 852-5450
604 Midwest Fed (Ofc)	1415 Holbach Bertha © 839-2458
606 Midwest Fed (Ofc)	1417 Lindell Allen L ◎ 839-4800
608 Midwest Fed (Ofc)	1419★Weishaar Albert 838-7194
610 Anderson & Dobrovolny lwyrs	1421 Larson Mark F 852-5768
852-4105	1423 Meske Henry ⊚ 838-8050
612 Prudential Insurance Co Of America	1425 Holman Leo E ⊚ 838-3173
The 852-3819	1427 Peterson Bernice Ann ⊚ 839-3847
614 New York Life Insurance Co	1429 Akerlind Jennie © 839-8010
838-0773	1431 No Return
702 Orthopedic Surgery Associates phys	1433 Haas Julius
852-1208	1435 Finneseth Anna O Mrs © 839-2373
702 Keck Stanley W phys 838-8208	1437 Erickson Selma C Mrs ⊚ 838-5231
702 Peterson Myron D phys 838-8208	1439 Southwood Condominium
702 Uthus David M phys	Gordon Dorothy Mrs © 839-1025
712 Midwest Fed Sav & Loan Bldg	1441 Milbrath Geo H
(Ofc) 12	1443 Grantier Edw ®
800 Hair By George 00 838-2306	1445 Becker Beryl G 852-4919
804 Seiffert Garnet E dentist 852-3766	1447 Johnson Violet ⊚ 838-1763
804 Hoffman Marvin D dentist 852-5599	1449 Dixon Gladys © 852-2748
REET CONTINUED	1451 Olson Geraldine © 839-4574
	1453 Spear Viola © 839-8758
5	1455 Keller Randal G ⊚ 838-1523
Brays Cleaners & Minot Laundry Inc	1457 Traube Frieda E ⊚ 852-0479
852-6161	1459 Kemp Irene N Mrs ⊚ 839-1688
Zion Lutheran Church 852-1872	1461 Bloms Florence C ◎ 838-3885
D AV SW INTERSECTS	1463★Przymus Alex M ⊚ 838-6436
Gate City Building 852-1371	1465 Bloms Arnold M @ 839-1857
Gate City Federal Savings Bank 852-1371	1515*Haiar Joseph P 838-7775
Trinity Services Building	1517 Vacant

Polk's City Directory

1st St SW

1981

1ST ST SW —FROM CENTRAL AV SOUTH 1 WEST OF MAIN ST

ZIP CODE 58701

- 2 James Allen Modeling School & Agency gift shop 839-8084
- 6 Vacant
- 8 Vacant
- 10 Kilene Donald D optom 852-2171

Carlson David C optom

- 1*Goetz Peter P 852-2883
- 2*Keller Shelly M 389-6487
- 4★Johnson Myra M 838-1666
- 6*Scully Leone 839-1355
- 10★Cockrum Frances E 838-9540
 - ★Dockter Warren N 839-5259
- 14 Parking
- 16 Vacant

1ST ST SW—Contd	204 II C Indian Health Com-
16a Zlevor Apartments	304 U S Indian Health Serv (Ofc Sp)
1★Bartholomew Jessie	307 US Int Rev Serv (Ofc)
838-4987	319 Vacant
2 Gjerde Bertha Mrs 838-7165	STREET CONTINUED
3★Massey James A	116 Jessen's Downstown Red Owl
4 Olson Anna Mrs 839-1770	gros 838-0524
20 American Bank & Trust Co	US Postal Serv Sub Sta No 3
852-3361	123 Midwest Federal Savings &
American Insurance Agency	Loan Building
852-3361	Midwest Federal Savings &
250 Feldman Jules P C certified	Loan Assn 852-1161
public accountants	Ruelle's Barber Service
852-2002	838-9617
255 Social Service Consultants	Tom's Coin Stamp & Rock
Inc social work 838-4449	Shop 852-4522
1ST AV SW INTERSECTS	Bsmt Shirley Room Coffee Shop
100 Federal Building	839-5959
Rooms	Rooms
003 U S Genl Services Admn	300 Northwest North Dakota
839-4155	Girl Scout Council 00
004 Vacant	852-5611
103 U S Fish & Wildlife Serv	304 Farhart Rasmuson Lian & Maxson P C 04
852-0318 104 US Soc Security Admn	852-2184
852-3191	305 Northern National Life
108 US Soil Conservation Serv	Ins Co Of Bismark
838-0663	852-2913
109 Vacant	307 Vacant
111 U S Game Mgment	308 Vacant
839-7418	310 Minot Lwyrs Lib
112 US Railroad Retirement	312 Eaton Van De Streek &
Bd 839-1016	Ward lwyrs 852-4837
02 US Dist Ct (Consultation	314 Midwest Federal
Rms)	(Appraisal Dept)
204 US Fed Bur Of	315 Evelyn's Beauty Shop
Investigation 852-5071	839-1550
205 US Dist Ct (Ofc)	316 Futuristic Financial
211 US Dist Ct Reporter	Systems ins & mut fund 852-5162
212 US Dist Ct 213 US Dist Ct Lib	317 Stamm R D Agency
214 US Jury Rm	852-2626
216 US Probation Ofcr	317 Occidential Life
218 US Dist Ct Clk	Insurance Of Ca
219 US Dist Atty	852-2626
220 U S Marshal 839-6278	408 Prudential Insurance Co
221 Vacant	852-3819
301 U S Indian Health Service	123 Blue Cross Blue Shield Of
852-0250	North Dakota 852-0555

IST ST SW -FROM CENTRAL AV SOUTH 1 WEST OF MAIN ST

ZIP CODE 58701

2 Store The gift shop 838-7938

6 Coons Thos D optom 838-2171 STREET CONTINUED

8 Carpet Garage carpet sls 838-6866

10 Overnight Parking Lot STREET CONTINUED

14a Busy Bee Shoe Repair Tim & Mike's Shoe Shine Parlor

16 Toivo's Jewelry 839-5288

16a Zlevor Apartments

1 Arndt Helen A Mrs 839-2327 2 Krueger Mary L

3 Gjerde Bertha Mrs 838-7165

4 Olson Anna Mrs 839-1770

20 Vacant Vacant

1ST AV SW INTERSECTS

100 Federal Building Rooms

003 U S Genl Services Adımn 839-4155

004 G E M Federal Credit Union 838-5303

103 U S Bur Of Sport Fisheries & Wildlife 838.0318

104 US Soc Security Admn 838-6191

108 US Soil Conservation Seerv 838-0663

109 Vacant

112 US Railroad Retirement Bd 839-1016

02 US Dist Ct (Consultationa Rms)

204 US Fed Bur Of

Investigation 839-52644 204 Federal Bureau Of Investigation 839-5264 4

205 US Dist Ct (Ofc)

211 US Dist Ct Reporter

212 US Dist Ct

213 US Dist Ct Lib

214 US Jury Rm

216 US Probation Ofcr

218 US Dist Ct Clk

219 US Dist Atty 221 US Dist Ct Prison 223 US Marshal 839 6278

301 Vacant 307 US Int Rev Service

319 Vacant

STREET CONTINUED

113 Anderson Block apts

1 * Burckhard Constance 838-1475

2 Vacant

3 Vacant

4 No Return

6 * Howie Wm 839-2453

8 Kretschmar Timothy C 839-4876

9 Zimmer Clara Mrs 838-4131

11 * Landy Willie 838-9340 12 Grubbs Claude S 838-1495

14 Rubbelke Genevieve K Mr

839-7177

16 * Avery Rod L 838-7468 17 Magyar Charles P 838-109

18 Athey Minnie A Mrs 839-4174

19 * Craney Edna Mrs 839-25 20 * Hoffer Marge 838-1640

21 * Domino Lou

22 * Putney Harold

23 * Barton Willard 838-1484

24 Jones Milton P

25 * Perkins Mary

26 * Lerberg Cynthia

27 * Steinke Irene Mrs 838-5151

28 Foster Dorothy E Mrs 838-3766

29 * Jorde Kevin 839-7290

30 * Williams Garry D 838-92

31 Breding Grace 839-3304

32 * Nelson Arlos

33 * Kuipers Janice 34 * Spain Ervin 839-2682

STREET CONTINUED

115 Anderson's D & S Bootery

838-2510

116 Jessen's Downstown Red Ow gros 838-0524

US Postal Serv Sub Sta No 117 Fab N Trim fabrics ret

839-5677 123 Midwest Federal Savings & Loan Building

Midwest Federal Savings & Loan Assn 839-2161 Ruelle's Barber Service

838-9617

MIDWEST FED SAV BLDG

1975

Tom's Coin Stamp & Rock Shop 838-6996

Bsmt Shirley Room Coffee Shop 839-5959

Paine Webber Jackson & Curtis Inc stock brokers

838-9121 Rooms

300 Northwest North Dakota Girl Scout Council 00 838-0518

304 Farhart Rasmuson Olson & Lian P C 04 838-2184

306 Vacant

307 International Business Machines (Br Ofc) 07 838-1803

123 Riehm-Deeter & Associates ins brokers 838-5115

310 Vacant

311 Vacant

312 Funke & Eaton lwyrs 838-9312

314 Ward County Abstract Co 838-2517

315 Evelyn's Beauty Shop 839-1550

316 Franklin Life Insurance Co 838-0913

317 Workman's Inc emp agcy 838-9675

400 Vacant

402 Vacant

404 New York Life Insurance Co 04 838-0773

406 Vacant

410 Vacant 10

414 U S Drug Enforcement Admn 838-5481

415 Vacant

416 State Vocational Rehabilitation 15 838-8205

417 Vacant

418 Corset Shoppe The 18 838-0602

419 Christian Science Reading Room 19 838-0775

420 Vacant

500 Amstutz Kenneth N phys 838-7521

500 Kaljot Victor phys 838-5422

505 Vacant

Dial 838-5404

1st St SW

1969

15 1704 Bartsch Theo ⊚ 839-6382 13a Gordon Block Apartments 1ST ST SW-Contd 1705 Goheen John W ⊚ 7 Gette Leona M Mrs 839-1614 21 Vacant 839-3069 22 Rivland Allan 8 Thompson Richard C 838-8789 1710 Juergens Curtis R @ 23 Lorenz Lloyd D 838-8493 9 Evenson Alpha 838-6055 839-7284 10 Varey Foster F 838-5259 STREET CONTINUED 24-29 Vacant 1711 Kastner Elmer J @ 30 Pallas Geo J 838-1165 32 Kelly Wm H 8 Harry's Tire Service dlrs 838-1823 1715 Knoop Geo H @ 838-5836 33 Myre Ben 1718 Klein Raymond A @ 14 Shaw & Co Inc real est 11 Vacant 838-4312 839-2645 11a Security Block apts Bsmt Hoffart Mike T 838-4312 1719 Klein Pius ⊚ 838-6373 14a Busy Bee Shoe Repair 1 Hansen Hazel R Mrs Swede's Shine Parlor shoe 838-4192 1722 Schlak Erling O ⊚ 2 Smith Leslie W 838-3545 shiners 838-4113 15 Northwest Sporting Good Inc 1723 Mehlhoff Mylo J ⊚ 3 Hellfeld June Mrs 4 Christenson Monica D Mrs 838-1727 839-5046 16 Vacant 838-1489 1726 Nelson Arth D ⊚ 838-7940 5 Plaisance Bertha F Mrs 16a Zlevor Apartments 1727 Smith Donald E @ 1 Arndt Helen A Mrs @ Mrs 839-7447 839-6039 2 Krueger Mary L Tiegen Harry 1730 Ogaard Raymond M @ 3 Estenson Emma Mrs Mitchell Lucille 838-2351 838-7691 4 Vacant 8 Lund Magdalene Mrs 1731 Bartlett Clyde I ⊚ 17 Central Office Supply 838-1076 838-6436 838-1412 9 Cuffe Marie 1736 Vacant 17a Vacant 10 Plaisance Nora C 838-1492 1801 Hagen Dale K ⊚ 838-9326 20 American Legion Auxiliary 11 Olson Anna W Mrs American Legion Club 839-1770 12 Perry Cleo C Mrs 3104 Newman Howard H @ Croll William G Post No 26 838-2771 (American Legion) 839-7511 1ST AV SW INTERSECTS 838-4675 14 Killmer Leona M Mrs 15 Haugen Ida J 839-7055 3209 Storbeck Fred H ⊚ 110 Federal Building 838-4698 16 Hendricks Blaine R 3213 Vacant Rooms 839-6223 003 U S Genl Services Admn 3301 Lee Rockie J Thompson May 838-8316 21 Knudson Stanley W 22 Paulson H Marie 838-8980 3601 Whitebody Sidney 839-4155 004 U S A Recruiting Ofc 838-7919 23 Mayhew Teresa H Mrs 3 103 US Soil Conservation IST ST SW —FROM CENTRAL AV SOUTH, 1 839-3850 Serv (Area Ofc) 838-0663 25 Knopfle Herbert R 104 U S Selective Serv Ward WEST OF MAIN ST 26 Anderson Elmer County Local Bd No 51 27 Hager Sebastian 839-3900 2 Vacant 28 Vacant 105 U S Soil Conservation 3 Watne Realty Co 839-2156 29 Vacant Serv 838-0019 6 Coons Thos D optom 838-0627 30 Balster Ronald 106 US Soc Security Admn Toivo's Jewelry 839-5288 31 Plaisance Everett T 838-6191 7 Mc Cannel Apartments 32 Regstad Palmer 108 U S Farmers Home 1 Bayhiff Rodney J 838-8410 2 Adams Mabel J 838-1454 33 Kraft Agnes G Admn 838-9618 34 Bussen Linus B 839-2648 US Congressmn (Ofc) 3 Birfeland Earl 35 Johnson Gary 838-8424 36 Teiken Irvin L 838-8511 4 Rostad Lillian Mrs 839-3409 112 US Railroad Retirement 5 Young Florence J Mrs 37 Simonson Alma C Bd 839-1016 838-1983 838-6829 201-02 USn Recruiting Ofc 6 Elliott Gertrude D Mrs 38 Olson Tyra 838-9612 838-2962 39 Rothschild Melinda 204 US Immigration Border 40 Boston Alex 41 Slatky Thos 839-3862 Patrol 839-4919 205 Federal Bur Of ING & HEATING, Inc. 42 Sorenson Borghild Investigation 839-5264 43 Van Fleet Dorcas 838-4889 TATING 211 US Dist Ct Reporter 44 Vacant 212 US Dist Ct STREET CONTINUED METAL INC. 213 US Dist Ct Lib

13 Thirteen Club The tavern

838-9942

214 US Jury Rm

FED BLDG-Contd

- 216 US Probation Ofcr
- 218 US Dist Ct Clk
- 219 US Dist Atty
- 221 US Dist Ct Prison
- 223 US Marshal 839-6278
- 301 US Bur Of Sport Fisheries & Wildlife 838-6696
- 307 Usmc Recruiting Ofc 839-2091
- 310 U S Int Rev Serv 838-0410
- 310-16 U S Int Rev Serv (Coll Dept) 838-9514
- 310 US Senator (Ofc) 838-4209

STREET CONTINUED

- 113 Anderson Block apts 1 Floew Mathilda G Mrs 838-3753
 - 2 Magyar Charles P 838-1095
 - 3 Seibel Rose
 - 4 Dickinson Mae
 - 5 Duffey Ferne L 839-5350
 - Vacant
 - 9 Jacobson Thora Mrs 838-5125
 - 11 Gahlhoff Sadie Mrs 839-3857
 - 12 Grubbs Claude S 838-1495
 - 14 Rubbelke Genevieve K 839-7177
 - 16 Krueger Carley 838-0185 17 Magyar Martha G
 - 838-1095
- 18 Athey Minnie A Mrs 839-4174
- 19 Kraney Edna Mrs
- 20 Breding Grace 839-3304
- 21 Krenzel Monica T 839-5430
- 22 Kretschmar Doug L 838-0043
- 23 Stewart Ruth M 838-1484
- 24 Vacant
- 25 Parres Elsa Mrs 839-2674
- 26 Wenz Fred P 838-1084
- 27 Vacant
- 28 Everson Ronald 838-0225
- 29 Meulen Edna B Mrs 839-3577
- 30 Rauch Lillian M 839-5888
- 31 Farstad Julia Mrs 838-4126
- 32 Grindberg Marie N Mrs 839-5294
- 33 Becker June N 838-1831
- 34 Erb Eline Mrs 838-1452

STREET CONTINUED

- 115 Spinning Wheel Yarn Shop 838-8729
- 116 Red Owl Stores Inc gros 838-0524 Uspo Sub Sta No 3
- 123 Minot Fed Sav & Loan Bldg Minot Federal Savings & Loan Assn 839-2161

Hobby House Coin Shop 838-9991

Bsmt Shirley Room Coffee Shop 839-5959

- Bsmt Associated Realty Co Inc
 - 838-1311 Rooms
 - 300 Northwest North Dakota Girl Scout
- Council 00 838-0518 123 Vacant
 - 304 Farhart & Rasmuson 04 838-2184
 - 304 Farhart Moody M 04yr 838-2184
 - 304 Rasmuson Mark B 04yr 838-2184
 - 306 Central Investment Inc 06al est & ins 839-2125
 - 307 International Business Machines (Br Ofc) 07 838-1803
 - 308 Vacant 08
 - 310 Ward County Abstract Co 10 939-2517
 - 310 Vacant 10
 - 311 Irene's Travel Agency 11 838-0378
 - 312 Funke & Eaton 12yrs 838-2933
 - 314 General Electric Credit Corp 14 838-6141
 - 312 Merle Norman Cosmetics 12 838-5515
- 3 Vacant
- 400 Goldia's Beauty Shop 00 838-8833
- 401 Franklin Life Insurance 01 838-0913
- 402 Vocational Rehabilitation Division 02 838-8205
- 404 New York Life Insurance Co 04 838-0773
- 406 National Insurance Co Of America 06fe ins 838-0371
- 410 Vacant 10
- 415 Partners Life Insurance Co 15 839-2187
- 416 National Guardian Life Ins Co 16 838-2155
- 417 Vacant 17
- 418 Corset Shoppe The 18 838-0602
- 419 Christian Science Reading Room 19 838-0775
- 420 National Life Sub Office
- 400 Bosard Mc Cutcheon Kerian & Schmidt 00yrs 839-7578
- 502 International Securities Corp 02 838-8219
- 504 Occidental Life Insurance Co 04 838-1758

MINOT FED SAV BLDG Contd	712 Minot Fed Sav & Loan
	Bdg (Ofc) 12
506 Great West Life	800 George's Sky Room
Assurance Co 06	Coiffures 00 838-2306
838-7574	804 Hoffman Marvin D
K Belcher Willis E optom	04ntist 839-3712
838-9220	804 Seiffert Garnet E
08 Hamilton Gordon L 08teo	04ntist 839-3766
839-1013	STREET CONTINUED
09 Permanent Sales Inc	DIRECT CONTINUED
09use furnishings	
838-1225	202 Minot Laundry & Dry
	Cleaners Inc 838-3420
510 Minot Foot Clinic 10	
838-3419	218 Zion Lutheran Church
510 Cockrell Thos W	838-5172
10diatrist 838-3419	Holen Clayton O 838-0964
510 Deckert Robt J 10diatrist	3D AV SW INTERSECTS
838-3419	300 Gate City Building
K Buttz Robt A lwyr	Gate City Savings & Loan
838-3160	Assn 838-1371
514 Borstad-Fitzmaurice 141	Mc Gee Van Sickle Hankla
properties 839-4626	Backes & Wheeler lwyrs
514 Dakota Oil Inc 14	839-2144
	314 Big Sky Ranch (Ofc) land co
839-4626	838-1341
515 Interstate Brands Corp	Fisher Motor Inc auto dlrs
(Northern Div) 15ol	838-1341
baked gds 838-0266	4TH AV SW INTERSECTS
516 Blue Cross Blue Shield	404 Trinity Hospital School Of
Of North Dakota 16	
838-7555	Nursing 838-4001
516 North Dakota Blue Cross-	420 Apartments
Blue Shield 16 838-7555	1 Dahl Minnie M 838-5861
516 North Dakota Physicians	2 Christianson Ragna
Service 16s	3 Kaiser Richd W 838-8715
600 Doeksen-Gross Insurance	4 Mikels John
	5 Overturf Steven
Agts 00 838-8258	5TH AV S W INTERSECTS
604 Weber Spaulding & Co	
04cts 839-2117	
608 National Insurance Co Of	616 State Farm Mutual Claim
America 08 838-0371	Office 838-4919
610 Palda Palda Peterson	Parent Barrieras
Anderson Tossett 10rs	
839-3105	11TH AV SW INTERSECTS
612 All American	12TH AV SW INTERSECTS
Management Corp 12	1111 Haugen Kenneth L ®
838-9126	The state of the s
614 Baukol-Noonan Inc 14al	838-1442
	Bsmt Vacant
dlrs whol 839-7304	1115 Poleschook Danl ⊚
232 Hart & Keek 02ys 838-8208	838-9665
02 Hart Geo M 02ys	1119 Reiser Chris E ⊚ 838-3086
838-8208	1121 Meyers Hattie C Mrs ⊚
02 Keck Stanley W 02ys	839-5932

1963

Hord Wm A 838-4631 1730 Apartments 1 Lang Robt E TE6-0184 2 Rood Phillip M TE5-3145 3 Hemmer James F 4 Kiepers Lynn E 833-3279 5 Bersie Eug M TE4-9298 6 Jaramillo Ralph TE8-4510 7 Lauderdale Ike TE8-4724 8 Smith Gary TE8-6089 9 Miller Gerald 10 Kowosto Victor J 11 Watts Danl A TE8-5868 12 Azure Andrew TE5-7217 13 Borkey Robt L Street continued 2611 No Return 2616 Under Constn Harrison av SW (RC) intersects 2801 Vacant 3209 Storbeck Fred H TE8-4673 3213 Nesson Dudley @ TE8-4679 1ST AVENUE SOUTHWEST-From Main west to 6th, 1 south of Central av and from 10th 250 ft east 13-15 Montana-Dakota Utilities Co TE2-1146 14 Coast to Coast Stores hdw TE7-0166 14a United Service Organization TE8-4515 15 First Avenue Building bsmt Gilmore Hse of Beauty The TE2-0132 Rooms: 201 Purdy Paul A dentist TE2-9212 202 DeMots Edw G dentist TE2-3214 203 Hartl Frank J dentist TE2-7228 Hartl Jas F dentist TE2-7228 204 Berger John E dentist TE2-5135 205-07 Funke & Eaton lwyrs 833-6112 and 833-3133 206 Smith Everett G Agcy ins

TE2-4221

1ST AV SW-Contd 15 First Av Bldg-Contd Room 206-Contd Franklin Life Insurance Co 832-4134 208 Pioneer Mut Life Ins Co TE2-8227 Kohnen Agency ins TE2-8227 301 First Investment Corp real est TE3-1114 302 Boutin Grover Agency 838-6116 New England Mutual Life Insurance 838-6116 Guaranteed Incomes ins 838-6116 303 Vandenoever Peter T dentist TE2-5114 304-05 Minot Dental Laby TE4-5210 306-08 Vacant 307 Minot Dental Laby (workrm) 401 North Dakota Hosp Serv Assn ins 835-8154 Blue Cross-Blue Shield 835-8154 402 Moen & Clifford oil explorations TE2-3237 Clifford Theo P lwyr 832-3237 403 State Vocational Rehabilitation TE2-9281 405-09 Martz Baldwin & Co acct TE4-1196 408 Kielhack & Fougner archts TE2-6118 Pettijohn Insurance Agcy TE7-0231 502 Truax-Traer Coal Co 833-1166 504-06 All American Life & Casualty Co 834-1107 Ramstad Agency ins 834-1107 505 Educators National Life Insurance Co 832-0209

Street continued 16-18 Anderson's D & S Bootery TE3-0110 16a Berg & Anderson Building Rooms: 1 Verry Ins Agcy TE2-6223 2 Waldron & Kenner lwyrs TE7-1118 3 Law Library 4 Livingston Realty TE8-6430 4a Kurth & Kurth Agents ins TE3-4216 5 Vacant 6 Vacant 7 Public Finance Corp TE8-4081 8 Northwestern National Life Insurance Co TE4-0283 9 Fran's Studio photog TE3-0249 11 Vacant 12 Pringle Agcy real est TE3-3222 14 Vacant Street continued 18b B&B Lunch TE8-4112 19 Clara's Kitchen restr TE2-7113 20 Ruelle Barber & Beauty Shop TE3-7217 20b Riverside Radio Shop repr TE3-9219 Perly's Fix It Shop repr 24 B & B Walgreen Drug TE2-2128 25 Union National Bank of Minot TE4-1161 1st SW intersects 100 American State Bank Building TE5-9274 American State Bank of Minot TE3-1161 American Ins Agcy TE3-1161 Rooms: 201 Holler Conrad L Ins Co's Agcy TE3-3217 TE3-2217 203 Iverson & Nyhus accts TE7-5114

1963

1ST AV SW-Contd 100 American State Bk Bldg-Contd Room 203-Contd Hardware Ins Agcy 834-5265 American Hdw Mut Ins Co TE4-5265 205 United Funds Inc stocks and bonds TE6-5236 Waddell & Reed Inc investment TE6-5236 207 Ward County Farm Bureau TE6-2208 Nodak Mutual Insurance TE6-2208 208 Vacant 209-11 Mar-Win Development Co oil TE4-7227 213 StPaul Fire & Marine Ins Co TE2-5110 StPaul Companies The ins TE2-5110 214 Pringle Herigstad Meschke Loder Mahoney & Purdy lwyrs 836-1191 Street continued 113 Gold Bond Gift Center TE6-2140 115 Woodmansee's Inc Business machs TE2-5215 117 Pantry The restr TE4-9243 119 Roosevelt Hotel Corp real est TE3-1141 Roosevelt Hotel TE3-1141 Jet Base Short-Way Inc. bus lines TE6-3209 121-23 Jamieson Co br stock brokers TE5-1111 Christian Science Reading Room 125 Town & Country Sewing Service TE4-9203 129 Gift House Stamps TE2-8192 11 2d SW intersects 200-20 Stearns Building Stearns Mtrs Inc garage TE2-8131

Stearns Investment Co TE2-8131 Stearns James W TE4-2120 Stearns Music Co coin operated mach TE4-2120 Hummel's Bee Line auto repr TE8-3204 Northwestern Bell Telephone Co (constn dept) Western Union Teleg Co mtce dept TE8-1223 Allen Electric contr Thorsrud Martin TE2-5115 Dix Distributing Co TE8-6520 Montgomery Ward & Co (auto serv) TE4-1121 Young Florence J Mrs TE2-4183 Eddie's Sales and Leasing trucks Rostad Lillian Mrs TE5-4209 3d SW intersects 302 Vacant 314 Vacant 317 Vacant 321 Vacant 323 Vacant 4th SW intersects Park av intersects 400 Great Northern Ry Co (pass sta) TE2-1121 406 R E A Express TE4-1149 5th and 6th SW intersects 701 Brenden Benj @ TE6-2202 809 Clifford Theo P @ TE7-4230 816 Smestad Dale L @ TE6-5102 820 Allen Wm H @ TE2-3196 821 Raberge Allan C @ 837-6184 824 Schreiner Ralph I @ 833-0109 825 Issel Carl J @ TE6-4109 13 901 Nichols James R @

	HOUSEHOLDS
1ST AVE SW (MINOT)	
+ 1ST ST NW INTERSECTS	
+ MAIN ST S INTERSECTS	
• ZIP CODE 58701 CAR-RT C001	
	GROUP insurance701-837-0795
10 MINOT PARKING AUTHORIT	Y parking stations & garages
************************	701-838-0045
11 LEGAL COUNSEL FOR INDIC	SENTS government offices-state
	701-857-7750
13 101 SECOND STORY social s	erv & welfare org701-838-0912
+ 1ST ST SW INTERSECTS	3
+ S BROADWAY INTERSECTS	
+ S BROADWAY CONTINUES	
+ 3RD AVE SW INTERSECTS	
+ SUMMIT DR INTERSECTS	
+ BURDICK EXWY W INTERSECTS	
• ZIP CODE 58701 CAR-RT C013	
	701 950 0259
	bassenger rail serv701-852-0358
+ 5TH AVE SW INTERSECTS	
+ 7TH ST SW INTERSECTS	
	1
808 Fistnen Roger T & Lori D 13	<u>↑</u> 701-838-7681

2005

1st Ave SW

SOUTH + 1ST AVE NW INTERSECTS 1ST AVE SW (MINOT)-FROM 2 1ST AVE SE WEST + MAIN ST S INTERSECTS ZIP CODE 58701 CAR-RT C001 10 MINOT PARKING AUTHORITY parking stations & garages701-838-0045 WOOD R L DDS dentists701-852-3939 13 Martz Shirley 4701-852-8793 O Podrygula Stephan701-852-9113 203 QUIK KLEAN SVC janitor serv701-852-9427 204 COMMUNICATION CORP advertising701-852-8667 304 ALBERTSON CONSULTING INC computer software701-839-7523 304 PREMIERE PAGES internet serv701-839-7953 406 M P & C INC nonclassified establishments701-852-8793 500 THOMAS & THOMAS attorneys701-852-1602 501 ARMSTRONG LAW FIRM attorneys701-838-9422 504 PSYCHOLOGICAL SERVICE PC mental health serv701-852-9113 17 US BANK banks701-857-0333 + 1ST ST SW INTERSECTS 100 FEDERAL BUREAU-INVESTIGATIO N federal government-police701-852-5071 US HEALTH & HUMAN SVC DEPT federal government701-852-0250 US MARSHAL SVC federal government-police701-839-6278

2005

P.O. Box 1806, 111 11th Ave. S.W.

1ST AVE SW Cont'd

US PROBATION & PAROLE OFFICE probation serv

.701-839-7960

- + 2ND ST SE INTERSECTS
- + 2ND ST NE CONTINUES
- + 3RD ST SW INTERSECTS
- ZIP CODE 58701 CAR-RT C023

305 Miller Gordon & Patricia 10701-858-0383

• ZIP CODE 58701 CAR-RT C013

400 AMTRAK government- railroads line701-852-0358

• ZIP CODE 58701 GAR RT 0023

3	HOUSEHOLDS 1
	1ST AVE SW (MINOT)-FROM 101 MAIN ST
	S WEST + 1ST AVE SE BEGINS
3	· ZIP CODE 58701 CAR-RT C001
3	
	10 MINOT PARKING AUTHORITY automobile
	parking
	13 DELORES SALON beauty shops. 839-1550
	FORUM COMMUNICATIONS COMPANY
3	K M C Y- T V tv broadcastg stns
,	Martz Baldwin 838-6614
	Podrygula Stephan852-9113
	Thomas Richard B 3852-1602
	OVandenoever Peter T838-3414
	201 PURDY PAUL ofcs clns of dntst 838-2412
	304 PATH PROFESSIONAL
	ASSOCIATION indvdl family svcs
	839-8887
5	403 STATE LEGISLATIVE OFFICE
5	admn soc mnpwr pgm857-7686 500@Balerud Lee838-2315
)	501 BALRUD LEE ATTORNEY AT LAW
	legal svcs
)	501 LAGERQUIST STEVE tax svcs
)	504 PSYCHOLOGICAL SERVICES PC
2	spty otpnt clns852-9113
)	17 U S BANK NA natl commrcl banks 852-0161
)	20 NEW YORK LIFE INSURANCE ins
	agts'svcs838-0773
7	21 Movchan Cari
2	+ 1ST ST SW INTERSECTS 100 302 U S HEALTH & HUMAN SERVICES
2	INDIAN HEALTH SERVICE home hith
•	care svcs
9	+ S BROADWAY INTERSECTS + 3RD ST SW BEGINS
	· ZIP CODE 58701 CAR-RT C013
3	302 Horn Paul H 9+
4	LAMOURE'S REMODELING sngl-fam
1	hsng cnstr
	PAUL'S WOODWORKS pnts vrnshs suppl 839-5575
	. ZIP CODE 58701 CAR-RT C023

		SW -FROM MAIN ST WEST 1
	SOUTH	OF CENTRAL AV
	· ZIP C	ODE 58701
	• MAIN	ST INTERSECTS
	Rooms	
	301 Vaca	nt
	15 FIRST	AVENUE BUILDING 852-3648
	Rooms	
		ORES' SALON 839-1550
	100	PRUDENTIAL INSURANCE ins &
		other fin serv 852-1051
		PURDY PAUL A dentist 838-2412
	202	MINOT PRIVATE PSYCHIATRIC
	000	CLINIC LTD 839-7100
		RIOUX BERCHMAN S phys 839-7100
	203	UNION TRAVEL BUREAU INC
	201	852-1091
8		THOMAS LAW FIRM 852-1602
	301	MINI COMPUTER SERVICES consulting & programming 839-7803
	302	UNITED STATES FIDELITY &
	002	GUARANTY ins 839-6639
	303	VANDENOEVER PETER T dentist
	000	838-3414
	305	Vacant
		Vacant
	402	A Z TAX SERVICE 839-5636
	403	PROTECTION & ADVOCACY
		PROJECT rights of people with
		dsblts 857-7686
	407	Vacant
	406	M P & C INC investments 852-8793

1993

408 NORTH AMERICAN LIFE & CASUALTY CO ins 839-4990

408 WADDELL & REED SECURITIES stock brokers 839-4990

500 BOUGHEY LAW FIRM legal council 838-2162

501 LAGERQUIST STEVE tax preparation 852-4595

504 PSYCHOLOGICAL SERVICES psychological serv 852-9113

STREET CONTINUED

17 FIRST BANK MINOT 852-0161 FIRST INSURANCE MINOT 852-1093

• 1ST ST SW INTERSECTS

· S BROADWAY INTERSECTS

• 3D ST SW INTERSECTS
302 PAUL'S WOODWORKS 839-5575
LA MOURE'S REMODELING & GLASS
SERVICE glass dlrs window & plate
838-6687

3344483.12 Page: A22

Polk's City Directory

1st Ave SW 1987

	3
ST AV SE—Contd	404 Thomas Law Firm 852-1602
430 Webster Sari 852-6027	406 United Way Of Souris Valley 839-2994
434★Huston David L 852-5181	408 North American Life & Casualty Co
15TH ST SE INTERSECTS	ins 839-4990
502★Mann Billy R 852-0488	408 Waddell & Reed Securities stock
507 Nelson Wm F ⊚ 852-4889	brokers 839-4990
510 Vacant	501 Minot Dental Laboratory 852-3176
512 Debowey Fred M © 852-6821	503 Minot Dental Laboratory (Addl Sp)
516 Bierdeman Albert © 839-7116	505 Minot Dental Laboratory (Addl Sp)
517*Berg Curtis L 838-2436	STREET CONTINUED
519 Richards Dempsey W © 839-3974	406 Soun's Valley United Way 839-2994
526 Jensen Helen Mrs © 838-6561	17 First Bank Minot 852-0161
16TH ST SE INTERSECTS	
601 Pullen Jerome A ⊚ 852-1971	an ar aw inmenances
605 Vacant	2D ST SW INTERSECTS
608★Sanford Janice M	3D ST SW INTERSECTS
609 Stavem Howard © 839-1894	302 Paul's Woodworks 839-5575
613 Vacant	La Moure's Remodeling & Glass Service
616 Lee Roger A 839-5294	838-6687
617 General Medical 838-6707	4TH ST SW INTERSECTS
Olson Rickey A @ 838-6707	SW PARK ST INTERSECTS
17TH ST SE INTERSECTS	400 Amtrak Railroad Inc pass sta 852-0358
700 Fix Albert © 838-8865	
700b Vacant	13
701 Johnson Clarence M @ 839-2925	804 Fisk Raymond A ◎ 838-9493
Vacant	808 Bailey Phyllis A @ 839-5189
704 Vacant	2*Puls Wm F 838-4441
705 Keller Daniel J @ 852-6549	809 Vacant
711 Vacant	810 Berg Oscar N © 838-3031
714 Oster Terry D © 838-3280	814 Sidener Michl G © 852-5703
715★Altendorf Keith M ⊚ 839-1789	815 Knodos
717 Nelson Ruth J Mrs © 839-4674	816 Langemo Daniel D © 852-4285
18TH ST SE INTERSECTS	820 Monicken Jay L © 838-4995
801 No Return	
	821 Larson Roger D ⊚ 839-2924 824 Bonebrake Richd M ⊚ 839-5395
809 Hartleib Charles B © 838-4388	
	825 Rudser Kathleen J Mrs © 838-3674
3	900 Thomas Lowell N © 852-3208
ST AV SW —FROM MAIN ST WEST 1	901 Erickson Harley O ⊚ 839-5676
SOUTH OF CENTRAL AV	904 Richards Ruth Mrs © 852-4564
	907★Langseth Darwin F ⊚ 838-2440
ZIP CODE 58701	908 Nordgaard Jeff L ⊚ 839-7734
Rooms	910 Vacant
101 Hutton E F & Co Inc stock broker	915 Reeves Elsie I Mrs © 838-0835
852-6256	918 Johnson Delorez M Mrs ⊚ 839-1454
403 Companions For Children Inc 838-5784	
5 First Avenue Building 852-3648	27
Rooms	1704 Buzzell L J ⊚ 838-4949
204 Odell-Wentz And Associates realtors	1705 Fryer Betty D Mrs ⊚ 838-0212
852-1756	1708 Nelson Wayne G ◎ 839-6044
100 No Return	1709 Waswick Timothy G ⊚ 838-8450
201 Purdy Paul A dentist 838-2412	18TH ST INTERSECTS
202 Minot Private Psychiatric Clinic Ltd	1800 Huus Ordean M ⊚ 838-4880
839-7100	1804★Pederson Dennis L ◎ 839-8694
202 Rioux Berchman phys 839-7100	1814 Elgie Michl C ◎
203 Union Travel Bureau Inc 852-1091	1821 Johnson Alvin K ⊚ 839-4113
301 Vacant	1824 Vacant
302 United States Fidelity & Guaranty ins	1900 Winkels Wm A ⊚ 839-5709
839-6639	1901 Callahan Tim J © 839-7314
303 Vandenoever Peter T dentist 838-3414	1904 Bossert Robt ⊚ 839-1309
304 Olson Sturdevant & Burns P C	1905 Stevens Wm R © 839-0562
attorneys at law 839-1740	1914 Brockell Edw R © 839-7946
401 Vacant	1915 Aitchison John M ⊚ 838-2838 1924 Nelson Craig A ⊚ 839-1849
402 A Z Tax Service 839-5636	

1981

	ST AV SE—Contd	
	1526 Jensen Vera Mrs © 838-6561	
	16TH ST SE INTERSECTS	
	1601 Pullen Jerome A ⊚ 852-1971	
	1605 Livingood Carol J Mrs ⊚	
	839-1612	
	1608 Rostad Edwin C ⊚ 838-9523	
	1609 Stavem Howard B ⊚	
	1613★Kuhn Blaine 839-2670	
	1616 Blansfield Wm F Jr ⊚	
	839-2342	
	1617 Olson Rickey A @ 838-6707	
	17TH ST SE INTERSECTS	
	1700 Fix Albert © 838-8865	
	1700b★Bock Jody Mrs	
	1701 Johnson Clarence M ⊚	
	839-2925	
	Murray Charlene 838-0166	
	1704 Bull Eber S ⊚ 838-0433	
	1705 Christianson Ida Mrs ⊚	
	839-3596	
	1711 Cleavenger Mabel Mrs	
	938-4219	
	1714 Oster Terry D 💿	
	1715 Anderson Orville M ⊚	
	838-8893	
	1717 Nelson Alf E ⊚ 839-4674	
18TH ST SE INTERSECTS		
	1801 Ziebath Edw J ⊚ 838-9333	
	1809 Hartleib Charles B	
	838-4388	

1ST AV SW -FROM MAIN ST WEST 1 SOUTH OF CENTRAL AV

ZIP CODE 58701 13 Vacant 15 First Avenue Building 852-3839 Total Image hair & skin care cntr 838-1032 ROOMS 201 Purdy Paul A dentist 838-2412 202 Kjos Lloyd A dentist 838-2639 203 Vacant

204 Vacant

205 Vacant				
206 Vacant				
207 Vacant				
208 Vacant				
301 Dental Lab (Sub Ofc)				
303 Vandenoever Peter T				
dentist 838-3414				
304 Minot Dental Laboratory				
852-3176				
306 Minot Dental Laby				
401 Vacant				
402 Vacant				
405 Otis Elevator Co				
406 Vacant				
408 Engineers Architects P C 838-3618				
501 North American Life &				
Casualty Co ins 839-4990				
United Investors stocks &				
bonds 839-4990				
Waddell & Reed Securities				
839-4990				
501 Old Line Life 839-4990				
503 Vacant				
505 United Fund Of Minot				
839-2994				
STREET CONTINUED				
17 First Bank Minot 852-0161				
Union Travel Bureau 852-1091				
100 American Bank & Trust Co				
Building				
201 Pringle & Herigstad				
852-0381				
And the second s				
an or our interpretations				
2D ST SW INTERSECTS 3D ST SW INTERSECTS				
302 Paul's Woodworks 839-5575				

4TH ST SW INTERSECTS SW PARK ST INTERSECTS 400 Amtrak Railroad Inc pass sta 852-0358

13 804 Fisk Raymond A @ 838-9493 808 Newman Martel J @ 839-5093 Myers Bertha Mrs 838-2742 809 Knudson Saml R ⊚ 838-0453 810 Berg Oscar N @ 838-3031

Polk's City Directory

1st Ave SW

1ST AV SE-Contd

1717 Nelson Alf E ⊚ 839-4674 18TH ST SE INTERSECTS

1801 Ziebarth Edward J @ 838-9333

1809 Hartleib Charles B @ 838-4388

IST AV SW -FROM MAIN ST WEST 1 SOUTH OF CENTRAL AV

ZIP CODE 58701

13 Montana-Dakota Utilities Co 838-1321

15 First Avenue Building 838-1361 Gilmore House Of Beauty 838-1032

Rooms

201 Purdy Paul A dentist 838-2412

202 Kjos Lloyd A dentist 838-2639

203 Hartl James F dentist 838-3928

204 Vacant

205 Vacant

206 Livingston Realty 838-6430

206 Smith Everett G Agency ins 838-3021

208 United Fund Drop

301 Vacant

303 Vandenoever Peter T dentist 838-3414

304 Minot Dental Laboratory 838-6176

306 Minot Dental Laby (LABY)

401 Bergem Raymond M dentist 838-8810

402 Vacant

403 Vacant

405 Lutheran Brotherhood Insurance 838-9363

406 Vacant

408 Kielhack & Fougner architests 838-3618

408 Architects-Planners-Associated 838-3618

501 North American Life & Casualty Co 838-4422

United Investors stocks &

bonds 839-5436 Waddell & Reed Securities 838-4422

502 M D W Associates Inc adv agcy 839-3313

506 Vacant

1975

505 N Central Area Health Planning Council 838-7561 Commission On Aging 838-7561

STREET CONTINUED

17 Union National Bank In Minot 838-9161

Union Insurance Agency 838-7093

Union Travel Bureau 838-7091 Metropolitan Life Insurance Co 838-4051

100 American State Bank Building American Bank & Trust Co 838-3361

> American Insurance Agency 838-3361

Rooms

214 Pringle & Herigstad lwyrs 838-0381

STREET CONTINUED

11

2D ST SW INTERSECTS 3D ST SW INTERSECTS

302 Paul's Woodworks 839-5575 4TH ST SW INTERSECTS SW PARK ST INTERSECTS

400 Amtrak Railroad Inc pass sta 838-0357

> Burlington Northern Railway Inc pass sta 838-0358

406 R E A Express 838-9148

804 Fisk Raymond A @ 838-9493

808 Newman Martel J @ 839-5093 Myers Bertha Mrs 838-2742

809 Knudson Saml R @ 838-0453

810 Berg Oscar N ⊚ 838-3031

814 Vacant

815 Dakota Equipment & Auto Leasing 838-2551 Heere Melvin V @ 838-2551

816 Smestad Dale L @ 839-5302

820 Monicken Jay L @ 838-4995

821 Larson Roger D ⊚ 839-2924

824 Schreiner Ralph I @ 838-2509

825 Rudser Ronald J @ 838-3674

900 Lund Arnold R @ 838-1844

901 ★ Erickson Harley O ⊚

839-5676

904 Richards Vancort H @ 838-3554

FIRST AVENUE BLDG	Metropolitan Life Insurance
—Contd	Co 838-4051
301 First Investment Corp real est 838-8514	Piper Jaffray & Hopwood Inc (Br) stock brokers 838-0311
302 Vacant	100 American State Bank
303 Vandenoever Peter T	Building
dentist 838-3414	American State Bank Of
304 Minot Dental	Minot 838-3361
Laboratory 838-6176	American Insurance Agency
	838-3361
306 Vacant	Rooms
307 Minot Dental Laby (Work Rm)	201 Holler Insurance Agency
401 Bergem Raymond M	838-2817
dentist 838-8810	203 Vacant
402 Clifford & Moen inv	207 Bldg Lib
838-1837	214 Pringle & Herigstad
403 Vacant	lwyrs 838-0381
406 Pyramid Life Insurance	STREET CONTINUED
Co 838-3529	
408 Architects-Planners-	11
Associated 838-3905	2D ST SW INTERSECTS
501 North American Life &	200 Stearns Building
Casualty Co 838-4422	Stearns Music Co coin
Waddell & Reed Securities	operated mach 838-0820
838-4422	Stearns James W 838-0820
502 Consolidation Coal Co	3D ST SW INTERSECTS
whol 838-3368	302 Paul's Woodworks 839-5575
506 Vacant	4TH ST SW INTERSECTS
505 Vacant	400 Burlington Northern
	Railway Inc pass sta
STREET CONTINUED	838-8221
16 Anderson's D & S Bootery	
shoe dlrs 838-2510	406 R E A Express 838-9148
16a Berg & Anderson Building	31 Cox Charles
Rooms	10
1 Nagel Service Agency	13
income tax serv 839-5636	804 Fisk Raymond A 838-9493
8 Westamerica Securities Inc	808 Newman Martel J @
839-4975	839-5093
STREET CONTINUED	Myers Bertha Mrs
18b Vacant	809 Knudson Saml R @
20 Ruelle Barber & Beauty Shop	838-0453
838-9617	810 Berg Oscar N ⊚ 838-3031
20a Vacant	814 Vardsveen Harold S
20b Riverside Radio Shop repr	838-3828
838-0519	815 Heere Melvin V ⊚ 838-2551
	816 Smestad Dale L 839-5102
24 B & B Walgreen Drug	820 Monicken Jay L © 838-4995
838-7033	821 Larson Roger D © 839-2924
25 Union National Bank In	024 Calaria Balak I
Minot 838-9161	824 Schreiner Ralph I ©
Union Insurance Agency	838-2509
838-7091	825 Metz Gerald L @ 838-3244
Union Travel Bureau	900 Lund Arnold R ⊚ 838-1844
838-7091	901 Rowe Paul H ⊚ 839-2409

1963

1st Ave SW

16 Hord Wm A 838-4631 1730 Apartments 1 Lang Robt E TE6-0184 2 Rood Phillip M TE5-3145 3 Hemmer James F 4 Kiepers Lynn E 833-3279 5 Bersie Eug M TE4-9298 6 Jaramillo Ralph TE8-4510 7 Lauderdale Ike TE8-4724 8 Smith Gary TE8-6089 9 Miller Gerald 10 Kowosto Victor J 11 Watts Danl A TE8-5868 12 Azure Andrew TE5-7217 13 Borkey Robt L Street continued 279 2611 No Return 3 2616 Under Constn Harrison av SW (RC) intersects 2801 Vacant 3209 Storbeck Fred H TE8-4673 3213 Nesson Dudley ⊚ TE8-4679 1ST AVENUE SOUTHWEST-From Main west to 6th, 1 south of Central av and from 10th 250 ft east 13-15 Montana-Dakota Utilifies Co TE2-1146 14 Coast to Coast Stores hdw 4242 1227 TE7-0166 14a United Service Organization TE8-4515 274 15 First Avenue Building 188 bsmt Gilmore Hse of Beauty The TE2-0132 Rooms: 201 Purdy Paul A dentist TE2-9212 202 DeMots Edw G dentist 9 TE2-3214 203 Hartl Frank J dentist TE2-7228 Hartl Jas F dentist TE2-7228 204 Berger John E dentist TE2-5135 205-07 Funke & Eaton lwyrs 833-6112 and

833-3133 206 Smith Everett G Agcy ins TE2-4221 1ST AV SW-Contd Street continued 15 First Av Bldg-Contd 16-18 Anderson's D & S Room 206-Contd Bootery TE3-0110 Franklin Life Insurance 16a Berg & Anderson Building Co 832-4134 Rooms: 1 Verry Ins Agcy TE2-6223 2 Waldron & Kenner lwyrs 208 Pioneer Mut Life Ins Co TE2-8227 Kohnen Agency ins TE7-1118 TE2-8227 3 Law Library 4 Livingston Realty TE8-6430 301 First Investment Corp real est TE3-1114 4a Kurth & Kurth Agents ins 302 Boutin Grover Agency TE3-4216 838-6116 5 Vacant New England Mutual 6 Vacant Life Insurance 7 Public Finance Corp 838-6116 TE8-4081 Guaranteed Incomes ins 8 Northwestern National Life 838-6116 Insurance Co 303 Vandenoever Peter T TE4-0283 dentist TE2-5114 9 Fran's Studio photog TE3-0249 304-05 Minot Dental Laby 11 Vacant TE4-5210 306-08 Vacant 12 Pringle Agcy real est 307 Minot Dental Laby (work-TE3-3222 rm) 14 Vacant 401 North Dakota Hosp Serv Street continued Assn ins 835-8154 18b B&B Lunch TE8-4112 Blue Cross-Blue Shield 19 Clara's Kitchen restr 835-8154 TE2-7113 402 Moen & Clifford oil 20 Ruelle Barber & Beauty explorations Shop TE3-7217 TE2-3237 20b Riverside Radio Shop repr Clifford Theo P lwyr TE3-9219 Perly's Fix It Shop repr 832-3237 24 B & B Walgreen Drug 403 State Vocational Rehabili-TE2-2128 tation TE2-9281 25 Union National Bank of Minot 405-09 Martz Baldwin & Co TE4-1161 acct TE4-1196 1st SW intersects 408 Kielhack & Fougner archts TE2-6118 100 American State Bank Building Pettijohn Insurance Agcy TE5-9274 TE7-0231 American State Bank of 502 Truax-Traer Coal Co Minot TE3-1161 833-1166 American Ins Agcy TE3-1161 504-06 All American Life & Casualty Co Rooms: 834-1107 Ramstad Agency ins 201 Holler Conrad L Ins Co's Agcy TE3-3217 TE3-2217 834-1107 505 Educators National Life 203 Iverson & Nyhus accts Insurance Co TE7-5114 832-0209

MATAL SELECTDICS

1963

1ST AV SW-Contd 100 American State Bk Bldg-Contd Room 203-Contd

> Hardware Ins Agcy 834-5265

American Hdw Mut Ins Co TE4-5265

205 United Funds Inc stocks and bonds TE6-5236

Waddell & Reed Inc investment TE6-5236

207 Ward County Farm Bureau TE6-2208

> Nodak Mutual Insurance TE6-2208

208 Vacant

209-11 Mar-Win Development

Co oil TE4-7227 213 StPaul Fire & Marine Ins

Co TE2-5110

StPaul Companies The ins TE2-5110

214 Pringle Herigstad

Meschke Loder Mahoney & Purdy lwyrs 836-1191

Street continued

113 Gold Bond Gift Center TE6-2140

115 Woodmansee's Inc Business machs TE2-5215

117 Pantry The restr TE4-9243

119 Roosevelt Hotel Corp real est TE3-1141

Roosevelt Hotel TE3-1141 Jet Base Short-Way Inc bus lines TE6-3209

121-23 Jamieson Co br stock brokers TE5-1111

Christian Science Reading
Room

125 Town & Country Sewing Service TE4-9203

129 Gift House Stamps TE2-8192

2d SW intersects 200-20 Stearns Building Stearns Mtrs Inc garage TE2-8131 Stearns Investment Co TE2-8131

Stearns James W TE4-2120

Stearns Music Co coin operated mach TE4-2120

Hummel's Bee Line auto repr TE8-3204

Northwestern Bell Telephone Co (constn dept)

Western Union Teleg Co mtce dept TE8-1223

Allen Electric contr Thorsrud Martin

TE2-5115 Dix Distributing Co TE8-6520

Montgomery Ward & Co

(auto serv) TE4-1121

Young Florence J Mrs

TE2-4183

Eddie's Sales and Leasing

trucks

Rostad Lillian Mrs TE5-4209

3d SW intersects

302 Vacant

314 Vacant

317 Vacant

321 Vacant

323 Vacant

4th SW intersects Park av intersects

400 Great Northern Ry Co

(pass sta) TE2-1121

406 R E A Express TE4-1149

5th and 6th SW intersects

701 Brenden Benj ⊚ TE6-2202 809 Clifford Theo P ⊚ TE7-4230

816 Smestad Dale L @ TE6-5102

820 Allen Wm H @ TE2-3196

821 Raberge Allan C 💿

837-6184 824 Schreiner Ralph I ⊚

833-0109 825 Issel Carl J © TE6-4109

13

901 Nichols James R @

RENTON LATHING CO

Minot Site 2

1st Street SW/1st Avenue SW Minot, ND 58701

Inquiry Number: 3344483.9

June 14, 2012

Certified Sanborn® Map Report



Certified Sanborn® Map Report

6/14/12

Site Name: Client Name: Minot Site 2 TriMedia

1st Street SW/1st Avenue SW 1002 Harbor Hills Drive Minot, ND 58701 Marquette, MI 49855

EDR Inquiry # 3344483.9 Contact: Derek Senn



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by TriMedia were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Minot Site 2

Address: 1st Street SW/1st Avenue SW

City, State, Zip: Minot, ND 58701

Cross Street:

P.O. # NA

Project: Minot Phase I s Certification # 2C5C-458B-BE43

Maps Provided:

1952	1907
1945	1904
1932	
1926	
1918	
1913	



Sanborn® Library search results Certification # 2C5C-458B-BE43

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress

✓ University Publications of America

✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

TriMedia (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1952 Source Sheets





Volume 1, Sheet 2

Volume 1, Sheet 4

1945 Source Sheets





Volume 1, Sheet 2

Volume 1, Sheet 4

1932 Source Sheets





Volume 1, Sheet 2

Volume 1, Sheet 4

1926 Source Sheets







Volume 1, Sheet 2

Volume 1, Sheet 4

Volume 1, Sheet 5

1918 Source Sheets



Volume 1, Sheet 8 Volume



Volume 1, Sheet 11



Volume 1, Sheet 12

1913 Source Sheets



Volume 1, Sheet 6



Volume 1, Sheet 7



Volume 1, Sheet 9



Volume 1, Sheet 10

1907 Source Sheets



Volume 1, Sheet 3



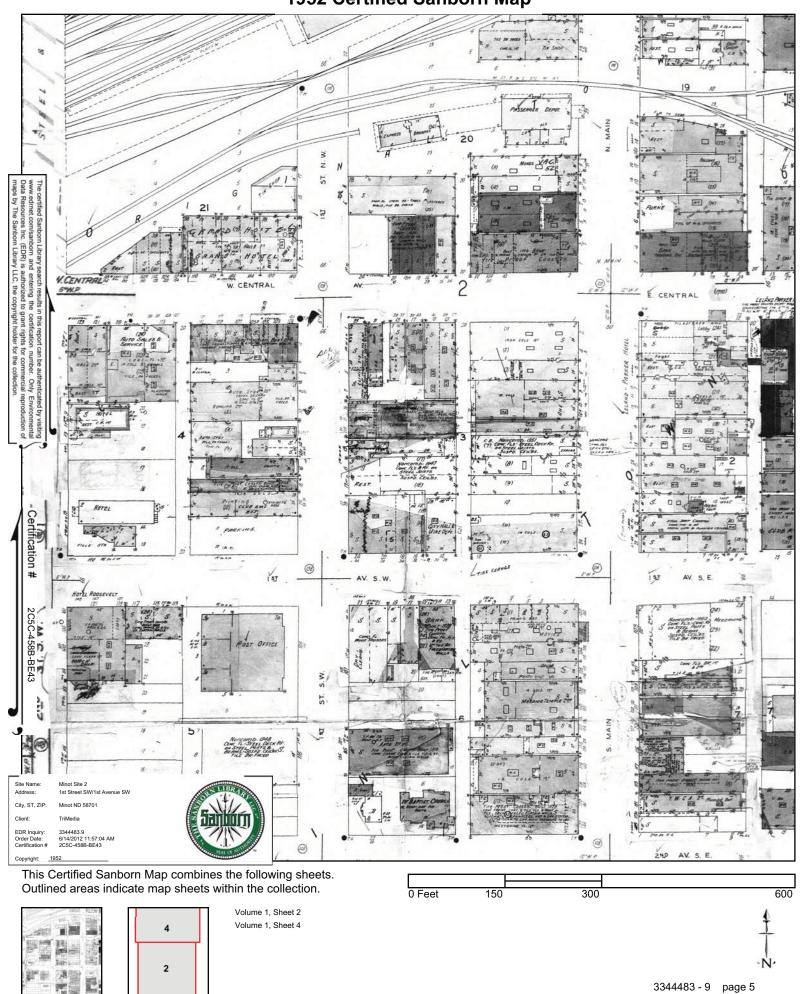
Volume 1, Sheet 4

1904 Source Sheets

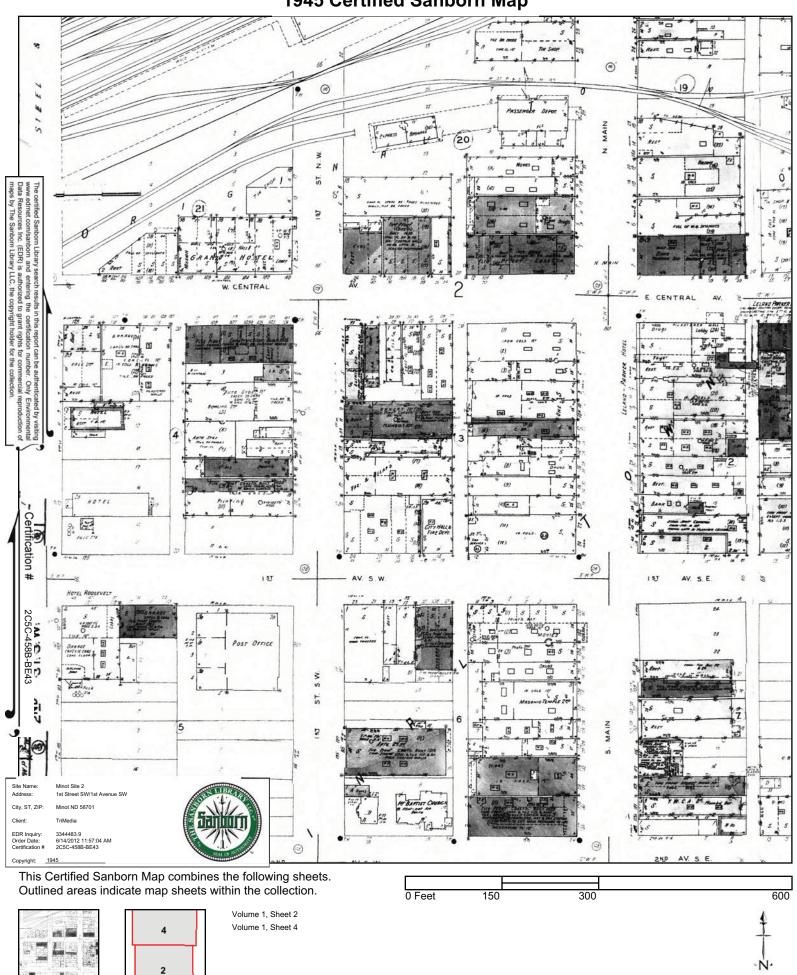


Volume 1, Sheet 2

1952 Certified Sanborn Map

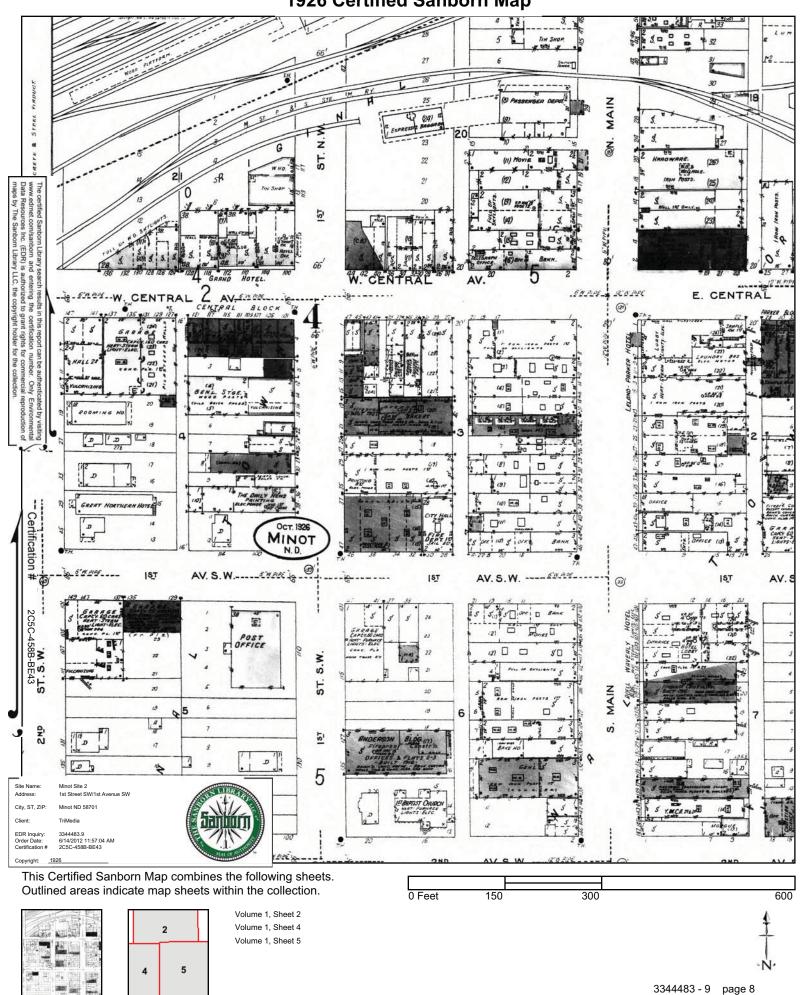


1945 Certified Sanborn Map

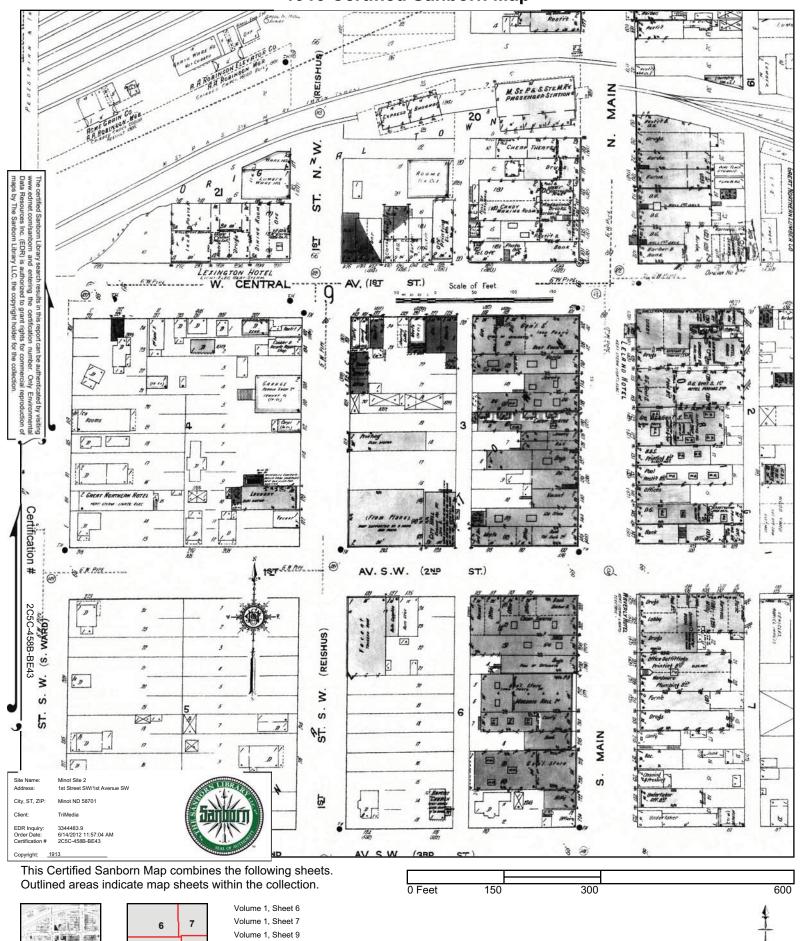


3344483 - 9 page 6





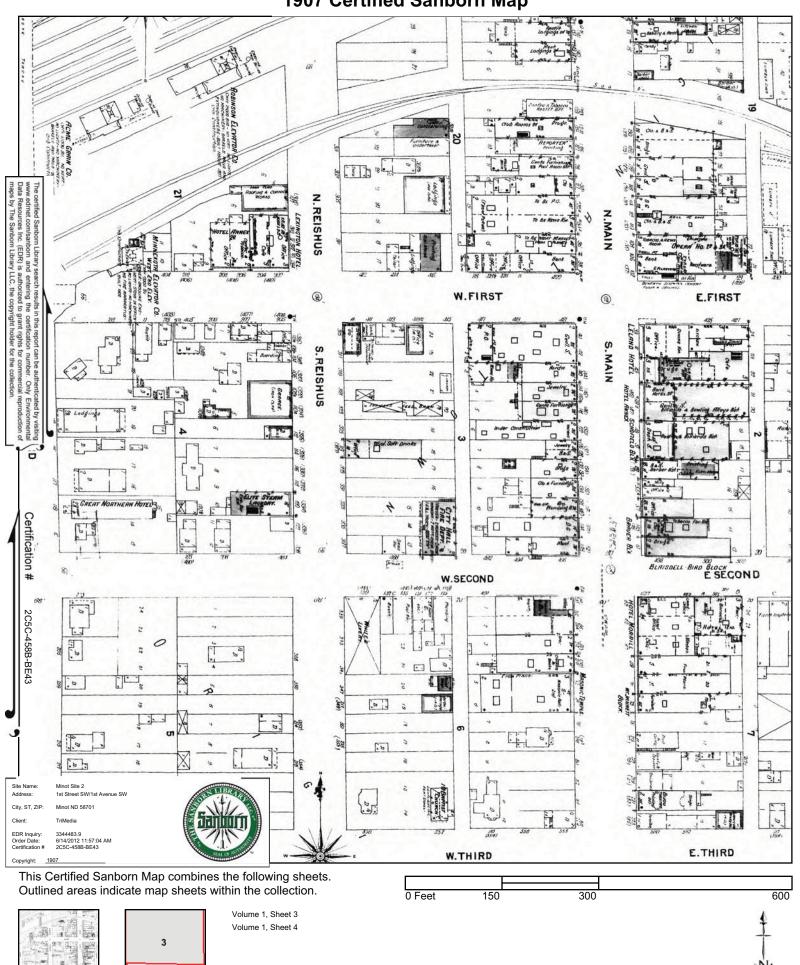




Volume 1, Sheet 10

10

3344483 - 9 page 10







ENVIRONMENTAL HEALTH SECTION
Gold Seal Center, 918 E. Divide Ave.
Bismarck, ND 58501-1947
701.328.5200 (fax)
www.ndhealth.gov

File: Hazardous Waste Correspondence - Consultant Request

February 11, 2013

John Grebs CDM Smith 1600 2nd Ave. SW - Suite 27 Minot, ND 587801

Dear Mr. Grebs:

This letter is written regarding a Limited Phase II Environmental Site Assessment Report dated January 28, 2013, conducted at 205 First Street SW, Minot, North Dakota.

Six soil borings were completed at this site to a depth of approximately eight (8) feet and soil samples collected for analysis. Continuous samples were collected from each boring and composited for analysis except for volatile organic constituents (VOCs), which were collected from the bottom each borehole. Groundwater was not encountered at any of the six borings. Naturally occurring arsenic in North Dakota soil tends to exceed EPA's regional screening levels (RSL) for residential and industrial soils.

The analytical results for the RCRA eight metals reflect naturally occurring concentrations, including arsenic.

Total petroleum hydrocarbons-gasoline range organics were detected in two borings at low part per million concentrations, below any state action levels. Total petroleum hydrocarbons-diesel range organics were detected in all six borings: one boring was in the low parts per million range; four borings were in the 50 parts per million range; and one boring exceeded the state Underground Storage Tank Program action level.

Various polycyclic aromatic hydrocarbons (PAHs) were detected in three of the six borings. PAHs in two of the borings exceeded EPA's regional screening levels for industrial and/or residential soils. The contaminants were in the low part per million range in all three borings.

VOCs were detected in two borings in the low part per billion range and did not exceed EPA's regional screening levels for residential or industrial soils.

Based on this Phase II Environmental Site Assessment, the Department concurs with your recommendation that no immediate remediation is required. This concurrence is contingent upon the contaminated soil being removed during future redevelopment of this site. Should the Department become aware of new information, or site condition's change, additional investigation or remediation could be required.

Should you have any questions regarding this letter, please feel free to contact me.

Sincerely,

Curtis L. Erickson, Manager Hazardous Waste Program

Division of Waste Management

CLE:lk

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

City of Minot

205 1st Street SW Minot, North Dakota

Community Development Block Grant Disaster Recovery Management Services

January 2013





Limited Phase II Environmental Site Assessment

205 1st Street SW Minot, North Dakota

January 28, 2013

Prepared for:
City of Minot
515 2nd Avenue SW
Minot, North Dakota 58702

Prepared by:
CDM Smith, Inc.
1600 2nd Avenue SW, Suite 27
Minot, North Dakota 58701



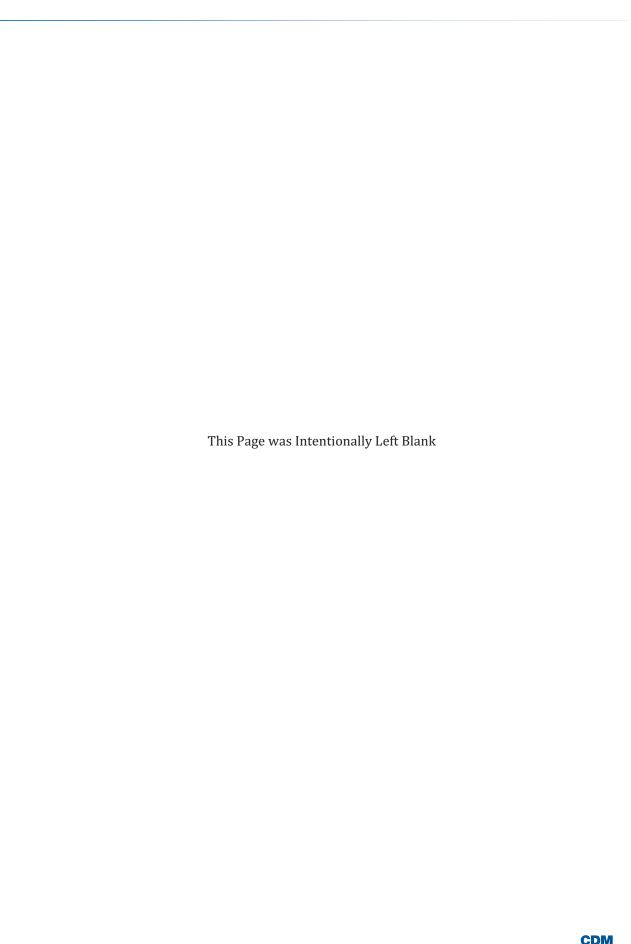




Table of Contents

Executive Su	ımmary	ES-1
Section 1	Introduction	1-1
Section 2	Site Location and Geologic Setting	2-1
Section 3	Summary of Phase I Assessment	
Section 4	Summary of Limited Phase II Assessment	4-1
Section 5	Results	5-1
	RCRA 8 Metals	5-1
	PAHs	
	TPHs	5-2
	VOCs	5-2
	Percent Moisture	5-2
Section 6	Discussion	6-1
	6.1 Primary Contaminants	6-1
	6.2 Extent of Contamination	
	6.3 Sources of Observed Contamination	6-1
	RCRA 8 Metals	
	PAHs	6-1
	TPHs	6-1
	VOCs	6-2
Section 7	Conclusions and Recommendations	
	7.1 Geology and Hydrogeology	7-1
	7.2 Extent of Contamination	7-1
	7.3 Recommendations	7-1
Section 8	References	8-1

List of Figures

Figure 1. Site Location Map Figure 2. Soil Boring Locations

List of Tables and Exhibits

Table 1. Analytical Results	
Exhibit 1. Summary of Detected PAHs Results5	5-2



Appendices

Appendix A Boring Logs

Appendix B Field Notes and Photo Log Appendix C Analytical Data Report

Acronyms

% Percent

AET American Engineering Testing, Inc.

bgs Below ground surface

CDM Smith CDM Smith Inc.

DRO Diesel range organics

EPA U.S Environmental Protection Agency

ESA Environmental Site Assessment

GRO Gasoline range organics

LUST Leaking underground storage tank

mg/kg Milligrams per kilogram

PAH Polycyclic aromatic hydrocarbons

PID Photoionization detector

ppm Parts per million

REC Recognized environmental concern

RCRA Resource Conservation and Recovery Act

RSL Regional Screening Levels

Site 205 1st Street SW, Minot, North Dakota

SOW Scope of Work

TPH Total petroleum hydrocarbons

TriMedia Environmental and Engineering Services, LLC

μg/kg Micrograms per kilogram

USCS Unified Soil Classification System

USGS U.S. Geological Survey

UST Underground storage tank
VOC Volatile organic compounds



Executive Summary

This document presents procedures and protocols used during the completion of a Section 128 (a) – Limited Phase II Environmental Site Assessment (ESA) to determine the presence of environmental concerns identified in the Phase I ESA at 205 $1^{\rm st}$ Street SW, Minot, North Dakota (Site). The Site is currently operated as a surface parking lot and will be redeveloped as a three-story parking garage with the possible addition of apartments on top at a later date.

CDM Smith Inc. (CDM Smith) conducted this work as part of the agreement with the City of Minot for Community Development Block Grant Disaster Recovery Management Services. The work was conducted in accordance with the 205 1st Street SW Phase II ESA Scope of Work (SOW) dated December 18, 2012 except where noted. Field work at the Site was coordinated with field investigations conducted for a separate limited Phase II ESA investigation at 5 Central Avenue West, Minot, North Dakota for the same client.

The purpose of the limited Phase II ESA was to evaluate the recognized environmental concerns (REC) outlined in the Phase I ESA report. The RECs included potential onsite sources associated with the former automobile repair and painting shop. Additionally, CDM Smith reviewed the text of the Phase I ESA, and recommended that the site be investigated intrusively for potential impacts related to a laundry and dry cleaning shop that was formerly located immediately across the street from and west of the Site, at 200 1st Street SW. The location is hydrogeologically side-gradient to the Site, and was included in the state Leaking Underground Storage Tank (LUST) database. According to the Phase I ESA, the site cleanup was completed as of July 17, 1993.

The underlying geology of the area consists of Cenozoic Era Tertiary System with Paleocene Series. A review of surface geology of Minot indicates that the Site is located on Quaternary age river terrace deposits which consist of planar bedded sands and gravels with abundant cobbles and boulders (Anderson 2006). Soil borings from this assessment show that gravelly sand is located from the ground surface (beneath the asphalt) to approximately 8 feet below ground surface. Some bands of lean clay were noted in four boreholes, and also trace cobble or boulders were encountered. Groundwater was not encountered in any boreholes.

Six locations were sampled for subsurface soil. The results indicated no or minor impacts to soils from Resource Conservation and Recovery Act (RCRA) metals (arsenic), polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH) – diesel range organics (DRO), TPH – gasoline range organics (GRO), and volatile organic compounds (VOC). Arsenic detections are most likely naturally occurring and were widespread throughout the Site at similar concentrations. VOCs were below the U.S. Environmental Protection Agency's (EPA) Regional Screening Levels (RSL) for residential and industrial soils. TPH-GRO results were below the actionable limit of 100 parts per million (ppm) TPH for underground storage tank (UST)/LUST program, which is the assumed screening criterion to be used as there is no RSL for TPH. There was one exceedance of the assumed screening criteria for TPH-DROs which occurred in one of the boreholes targeting the former automobile repair and paint shop. Exceedances over either EPA RSLs for residential or industrial soils were detected for three PAHs in one of the boreholes targeting the former automobile repair and paint shop. Exceedances over EPA RSLs for either residential soils or residential and industrial soils were detected for five PAHs in one borehole which was placed to provide even coverage of the Site and was not targeting any specific



REC. None of these exceedances greatly exceed the RSLs and are the likely result of anthropengic activities common to any urban area.

Based on the information obtained during this limited Phase II ESA, it does not appear that the detected analytes are a significant indicator of contamination. The detections appear to be isolated detections or similar to background levels. Given the Site's current use as a parking lot, it is recommended that no immediate action take place given the low number of exceedances and relatively low concentrations. Future redevelopment of the Site will include construction of a three-story parking garage with the possible addition of apartments on top at a later date. The entire existing parking lot will be excavated to a depth of at least 8 feet below ground surface (bgs) and the contaminated material will be removed at that time.



Introduction

The purpose of the limited Phase II Environmental Site Assessment (ESA) was to evaluate the recognized environmental concerns (REC) identified in the Phase I ESA at 205 1st Street SW, Minot, North Dakota (Site) and determine whether a release of hazardous substances has occurred at the Site; and in this case, if contamination has migrated onsite from potential offsite sources. A REC identified in the Phase I ESA was associated with the former automobile repair and painting shop previously located in the southeast corner of the Site. In addition to the former automobile repair and painting shop, the Phase I ESA documented an off-site laundry and dry cleaning shop adjacent to the site. The Scope of Work (SOW) dated December 18, 2012, called for collecting soil samples from six borings located on the Site. Two of the six locations are approximately within the boundary of the former automobile and repair shop and two are located along the property line immediately adjacent to the former laundry and dry cleaning shop. The remaining two locations are spaced within the balance of the Site for general site investigative purposes and/or to establish background concentrations.

At each sample location, continuous samples were collected and a photoionization detector (PID) was used to screen the sample for the potential presences of volatile organic compounds (VOC). If an elevated PID reading was found, one grab sample for all constituents was collected at the depth of the highest reading. If an elevated reading was not found, the sample was composited using a decontaminated stainless steel spoon and bowl, except for VOCs. VOCs were collected from the bottom of the borehole. Samples were analyzed by Test America, Arvada, Colorado. All utilities were located utilizing the North Dakota One-Call system prior to conducting any subsurface investigations.





Site Location and Geologic Setting

The Site is located at 205 1st Street SW, Minot, North Dakota (**Figure 1**). It is approximately 0.96 acres in size and is zoned as a central commercial zone (C-3) (City of Minot 2010). The Site lies at an average elevation of approximately 1600 feet above mean seal level (TriMedia 2012). The Souris River is located approximately 1,400 feet north of the Site. The Site consists of a surface parking lot that will be redeveloped into a three-story parking garage with the possible addition of apartments on top at a later date. Adjacent properties consist of surface parking lots and commercial, medical, residential, and retail properties. (TriMedia 2012).

TriMedia Environmental and Engineering Services, LLC (TriMedia) described the underlying geology of the area to consist of Cenozoic Era Tertiary System with Paleocene Series. The soil type is characterized as well drained, deep loam with moderate infiltration rates. A review of surface geology of Minot indicates that the Site is located on Quaternary age river terrace deposits which consist of planar bedded sands and gravels with abundant cobbles and boulders (Anderson 2006).

Soil borings from this assessment show that gravelly sand is located from the ground surface (beneath the asphalt) to approximately 8 feet below ground surface (bgs). Bands of lean clay were noted in SB-1, SB-2, SB-3, and SB-5 at varying depths, but thicknesses were no more than approximately 2 feet. Trace cobbles or boulders were encountered in several boreholes which varied from siltstone, limestone, quartzite, concrete, and either scoria or brick, as noted in the boring logs. Boring logs from this assessment are included in **Appendix A** and photos of core are included in **Appendix B**.

Groundwater was not encountered in any borehole. The frost depth varied between approximately 3 and 4 feet. The topography of the Site is a slight to moderate slope down to the north. The assumed local groundwater flow is to the north based on the general topographic gradient and the location of the Souris River (TriMedia 2012).





Summary of Phase I Assessment

TriMedia performed a Phase I ESA (June 6, 2012) and documented the current Site conditions. Historical sources of the Site include Sanborn Maps from 1904, 1907, 1913, 1918, 1926, 1932, 1945, and 1952; and aerial photographs from 1966, 1974, 1982, 1984, 1992, 1995, 2005, and 2006. These historical sources show that the Site from 1904 to 1918 consisted of a church, several commercial buildings, and residential dwellings. Between 1913 and 1918, one of the commercial buildings became an automobile repair shop. The 1932 Sanborn Map showed the automobile repair shop was also listed as offering painting services. Between 1932 and 1945, the automobile repair and paint shop became a merchandise warehouse. Between 1945 and 1952, the warehouse was converted to an automobile sales and services. All aerial photographs between 1966 and 2006 show the Site as a surface parking lot (TriMedia 2012).

TriMedia identified one REC, the former automobile repair and paint shop, on the Site. In addition, CDM Smith reviewed the text of the Phase I ESA, and recommended that the site be investigated intrusively for potential impacts related to a laundry and dry cleaning shop that was formerly located immediately across the street from and west of the Site, at 200 1st Street SW. The leaking underground storage tanks (LUST) database indicated that site cleanup for the laundry and cleaning shop was completed as of July 17, 1993 (TriMedia 2012).

In addition to the dry cleaning site, environmental data sources were reviewed and the Phase I documented one Resource Conservation and Recovery Act (RCRA) generator, four RCRA nongenerators, one mine, and several underground storage tanks (UST) and LUSTs that were within the ASTM E 1527-05 search radius around the Site (TriMedia 2012). These sites were not identified as RECs during the Phase I ESA.





Summary of Limited Phase II Assessment

Field work commenced at the Site on January 6, 2013, and concluded on the same day. Field work at the Site was coordinated with field investigations conducted for a separate limited Phase II ESA investigation at 5 Central Avenue West, Minot, North Dakota for the same client. Field notes and photos are included in **Appendix B**. Utility clearances were conducted prior to any intrusive subsurface work. One week prior to beginning drilling and sampling activities, the North Dakota One-Call System and appropriate utility companies were contacted to locate and mark buried utilities. Prior to commencement of drilling, borehole locations were checked by the drilling subcontractor (American Engineering Testing, Inc. [AET]) and CDM Smith personnel to verify if there were any utilities at proposed locations.

The field investigation followed the procedures stated in the 205 1st Street SW Phase II SOW except where noted in this report and included the sampling of subsurface soil to determine potential contamination from site related or offsite related activities. A total of six boreholes were completed to a depth of 8 feet bgs. Boring locations were identified in the field using aerial photographs and final borehole locations were confirmed by measuring locations from stationary landmarks. The final borehole locations are shown on **Figure 2**. Locations SB-1 was moved approximately 15 feet west of the original location due to a large snow pile obstructing the location of SB-1. SB-2 was moved approximately 25 feet east of its original location to create even coverage of the former automobile repair and paint shop after movement of the SB-1 location. Location SB-4 was moved approximately 25 feet northwest of the original location due to an underground utility and uneven slope.

Subsurface soil samples were collected and analyzed for chemicals which may have been associated with the automobile repair and paint shop or the laundry and cleaning shop. The data quality objectives for soil sampling were to provide analytical data sufficient to determine whether soils at the Site have been impacted by operations at the Site and/or from operations surrounding the Site. Soil samples were analyzed for RCRA 8 metals (metals), polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH) – gasoline range organics (GRO), TPH – diesel range organics (DRO), VOCs, and percent moisture.

The subsurface soil samples were collected using a direct push (Geoprobe) drilling rig with 2 ¼ inch core barrel. All recovered soil was initially screened in the field for organic vapors using the PID. Screening took place immediately after the opening of the soil liner sleeves. Screening results were noted on the boring logs in **Appendix A**. Because there were no elevated PID readings or other indications of contamination (i.e., odor or staining) noted in any of the borings, the sample was composited using a decontaminated stainless steel trowel and bowl, except for VOCs. VOCs were collected from the bottom of the borehole from within the soil liner sleeve. (If an elevated PID reading had been found, one grab sample for all constituents would have been collected from the depth with the highest reading.) A deviation from this collection process was that the bottom of the borehole was composited with the rest of the borehole material prior to VOCs collection at SB-4. Sampling equipment (stainless steel trowel and bowl) were decontaminated after each use using distilled water and a non-phosphate detergent (Alconox) and then rinsed with distilled water.



The lithology of the soil retrieved from each boring was logged in accordance with the Unified Soil Classification System (USCS). Logging information was recorded on the boring logs included in **Appendix A**.

Excess soil generated during sampling was placed in the boreholes. If there was not enough soil remaining, filter pack sand was used to fill the remaining void space in the borehole to the surface. A cold asphalt patch was used to restore the surface.



Results

All samples were analyzed for RCRA 8 metals, PAHs, TPHs (GROs and DROs), VOCs, and percent moisture. Analytical results are provided in **Table 1** and complete analytical data packages are provided in **Appendix C**. Following receipt of the analytical data packages, the data were reviewed and validated to determine its usability. The data were determined to be useable. The data validation and usability summary is included with the data packages in **Appendix C**.

In the data tables, a "J" qualifier after the numerical concentration indicates that the result is less than the analytical method reporting limit (RL) but greater than or equal to the minimum detectable level (MDL) and the concentration is an approximate value.

RCRA 8 Metals

Several metals were detected in the subsurface soil samples. These metals include arsenic, barium, cadmium, chromium, lead, and mercury. The detected results are shown in **Table 1** and summarized below.

- Arsenic was detected in all six subsurface soil samples. The concentrations ranged from 6.9 milligrams per kilogram (mg/kg) (SB-3) to 12 mg/kg (SB-4).
- Barium was detected in all six subsurface soil samples. The concentrations ranged from 100 mg/kg (SB-4) to 240 mg/kg (SB-1).
- Cadmium was detected in all six subsurface soil samples. The concentrations ranged from 0.23 J mg/kg (SB-6) to 0.37 J mg/kg (SB-1 and SB-3).
- Chromium was detected in all six subsurface soil samples. The concentrations ranged from 11 mg/kg (SB-1 and SB-6) to 28 mg/kg (SB-5).
- Lead was detected in all six subsurface soil samples. The concentrations ranged from 3.5 mg/kg (SB-6) to 32 mg/kg (SB-3).
- Mercury was detected in all six subsurface soil samples. The concentrations ranged from 0.025 mg/kg (SB-4) to 0.094 mg/kg (SB-3).

PAHs

PAHs were detected in subsurface soil samples from SB-1, SB-2, and SB-3. These detections are summarized in Exhibit 1. The complete list of PAHs analyzed for in soil samples are shown in **Table 1**.



Exhibit 1. Summary of Detected PAHs Results

Analyte	SB-1 (μg/kg)	SB-2 (μg/kg)	SB-3 (µg/kg)	
Acenaphthylene	-	-	140 J	
Anthracene	-	-	250 J	
Benzo[a]anthracene	-	150 J	1000 J	
Benzo[a]pyrene	-	130 J	1000 J	
Benzo[b]fluoranthene	-	270	1500	
Benzo[g,h,i]perylene	-	85 J	660 J	
Chrysene	-	150 J	1000 J	
Dibenz(a,h)anthracene	-	-	180 J	
Fluoranthene	-	230 J	2200	
Indeno[1,2,3-cd]pyrene	-	-	530 J	
Phenanthrene	93 J	100 J	1100 J	
Pyrene	130 J	230 J	2500	

μg/kg = micrograms per kilogram

TPHs

The complete list of results for TPHs analyzed for in soil samples are shown in **Table 1**. TPH-DROs were detected in all six subsurface soil samples. The concentrations ranged from 1.2 J mg/kg (SB-5) to 270 mg/kg (SB-1). TPH-GROs were detected in only two subsurface soil samples. The concentrations were 0.47 J mg/kg at SB-1 and 0.6 J mg/kg at SB-2.

VOCs

The complete list of results for VOCs analyzed for in soil samples are shown in **Table 1**. Three VOCs were detected in subsurface soil samples.

2-butanone (MEK) and acetone were detected in the soil sample collected from SB-2 at 5.8 J μ g/kg and 13 J μ g/kg, respectively.

Methylcyclohexane was detected in the soil sample collected from SB-4 at 0.41 J $\mu g/kg$.

Percent Moisture

Percent moisture was analyzed for all subsurface soil samples. The complete list of results for percent moisture for soil samples are shown in **Table 1**. The percent moisture ranged from 4.8 percent (%) (SB-4) to 12% (SB-3).



Discussion

6.1 Primary Contaminants

The contaminants detected for subsurface soils included metals (arsenic, barium, cadmium, chromium, lead, and mercury), PAHs (acenaphthylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene, and pyrene), TPHs (DROs and GROs), and VOCs (2-butanone (MEK), acetone, and methylcyclohexane).

6.2 Extent of Contamination

This section describes the extent of contamination and those contaminants with concentrations above the Environmental Protection Agency's (EPA) Regional Screening Levels (RSLs) for residential and industrial soil. In addition, TPHs do not have an EPA RSL. A TPH limit of 100 ppm was used as that is the limit which typically requires action under the North Dakota Department of Health's UST/LUST program. Although there is no UST/LUST involved at the Site, it is assumed that the 100 ppm limit would be used for cleanup action.

6.3 Sources of Observed Contamination

RCRA 8 Metals

Six metals were detected in all six subsurface soil samples. The metal that exceeded the EPA RSLs for residential and industrial soil was arsenic in all six samples. Concentrations of arsenic ranged between 6.9 mg/kg and 12 mg/kg. The U.S. Geological Survey (USGS) Professional Paper 1270 was reviewed to determine the expected metals concentrations in soil, and the average concentration for arsenic in this part of North Dakota is approximately 10 mg/kg (USGS 1984). Therefore, the arsenic concentrations detected are within the range of expected background concentrations.

PAHs

Twelve PAHs were detected in three subsurface soil samples. Benzo[a]anthracene concentrations in two samples (SB-2 and SB-3) were at or exceeded the RSL for residential soil (150 μ g/kg) but not the RSL for industrial soil (2,100 μ g/kg). Benzo[a]pyrene concentrations in two samples (SB-2 and SB-3) exceed the RSL for residential soil (15 μ g/kg) and exceeded the RSL for industrial soil (210 μ g/kg) in one sample (SB-3). Benzo[b]fluoranthene concentrations in two samples (SB-2 and SB-3) exceed the RSL for residential soil (150 μ g/kg) but not the RSL for industrial soil (2,100 μ g/kg). The dibenz(a,h)anthracene concentration in one sample (SB-3) exceeds the RSL for residential soil (15 μ g/kg) but not the RSL for industrial soil (210 μ g/kg). The indeno[1,2,3-cd]pyrene concentration in one sample (SB-3) exceeds the RSL for residential soil (150 μ g/kg) but not the RSL for industrial soil (2100 μ g/kg). All other detected PAHs do not exceed EPA RSLs for residential or industrial soils.

TPHs

TPH-DROs were detected in all six subsurface soil samples. The TPH-DROs concentrations exceed the UST/LUST limit of 100 ppm in one instance (SB-1). TPH-GROs were detected in only two subsurface soil samples. All TPH-GROs concentrations were below the UST/LUST limit of 100 ppm.



VOCs

Two VOCs (2-butanone (MEK) and acetone) were detected in SB-2. Both detected VOCs were below EPA RSLs for residential and industrial soils. One VOC (methylcyclohexane) was detected in SB-4. There are no EPA RSLs for residential or industrial soils for methylcyclohexane.



Conclusions and Recommendations

The conclusions provided in this section are based on the results of this limited Phase II ESA. The Site is located at 205 1st Street SW, Minot, North Dakota. The Site consists of a surface parking lot. Media investigated during this limited Phase II ESA included subsurface soil.

7.1 Geology and Hydrogeology.

Soil borings from this assessment show that gravelly sand is located from the ground surface (beneath the asphalt) to approximately 8 feet bgs. Bands of lean clay were noted in SB-1, SB-2, SB-3, and SB-5 at varying depths, but thicknesses were no more than approximately 2 feet. Trace cobbles or boulders were encountered in several boreholes which varied from siltstone, limestone, quartzite, concrete, and either scoria or brick, and the occurrences are noted in the boring logs. Groundwater was not encountered during this investigation, but the assumed local groundwater flow is to the north based on the general topographic gradient and the location of the Souris River (TriMedia 2012).

7.2 Extent of Contamination

As discussed in Section 6, Site contaminants found in the subsurface soil include six metals, twelve PAHs, TPH-DROs, TPH-GROs, and three VOCs. Of the six metals, arsenic was the only metal to exceed the EPA RSLs for residential and industrial soils. Based on information gathered from USGS Professional Paper 1270, the arsenic concentrations are within the range of expected background concentrations (USGS 1984).

The PAHs were detected in three subsurface soil samples, but only five exceed the EPA RSLs for residential soils or both the residential and industrial soils criteria at two locations (SB-2 and SB-3). Benzo[a]anthracene, benzo[a]pyrene, and benzo[b]fluoranthene concentrations exceed the EPA RSL for residential soils at locations SB-2 and SB-3. In addition, benzo[a]pyrene also exceed the industrial soils criteria at SB-3. The dibenz(a,h)anthracene and indeno[1,2,3-cd]pyrene concentrations exceed the EPA RSLs for residential soils at only SB-3.

TPH-DROs were detected at all six locations, but only exceed the assumed UST/LUST limit of 100 ppm at location SB-1. TPH-GROs were detected at two locations, but did not exceed the UST/LUST limit. Several VOCs were detected at two locations, but none exceeds the EPA RSLs.

7.3 Recommendations

Based on the information obtained during this limited Phase II ESA, it does not appear that the detected analytes are a significant indicator of contamination. The detections appear to be isolated detections or similar to background levels. None of these exceedances greatly exceed the RSLs and are either minor in nature, naturally occurring, or the likely result of anthropengic activities common to any urban area. Given the Site's current use as a parking lot, it is recommended that no immediate action take place given the low number of exceedances and relatively low concentrations. Future redevelopment of the Site will include construction of a three-story parking garage with the possible addition of apartments on top at a later date. The entire existing parking lot will be excavated to a depth of at least 8 feet bgs and the contaminated material will be removed at that time.





References

Anderson, F.J. 2006. *Surface Geology of the Minot Quadrangle, North Dakota*. North Dakota Geological Survey Map no. 24K Minot –sg, 1:24,000 scale. Accessed on January 16, 2013. Available at: https://www.dmr.nd.gov/ndgs/surfacegeo/surfacemapsnew.asp.

City of Minot. 2010. *Zoning Map*. Accessed on January 17, 2013. Available at http://www.minotnd.org/index.php?option=com_content&view=article&id=11&Itemid=102.

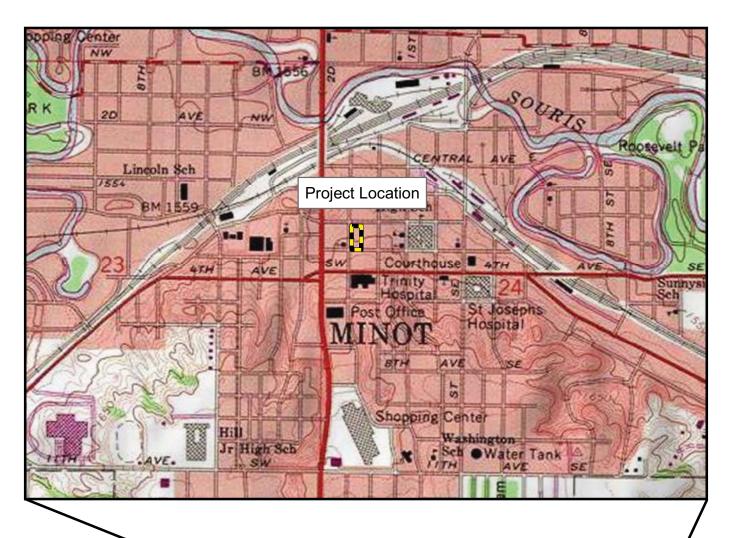
TriMedia Environmental and Engineering Services, LLC (TriMedia). 2012. *Phase I Environmental Site Assessment: 205 1st Street SW, Minot, ND 58701*. TriMedia Project Number 2012-102. August 6.

U.S. Geological Survey (USGS). 1984. *Elementary Concentration in Soils and Other Surficial Materials of the Conterminous United States*, U.S. Geological Survey Professional Paper 1270.



This Page was Intentionally Left Blank





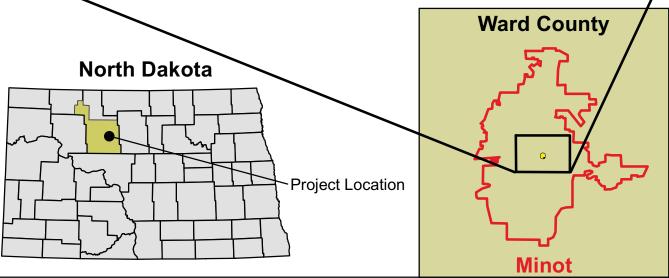


Figure 1: Site Location Map





205 1st Street SW Minot, North Dakota

Topographic Map

0 0.2 0.4 Miles

Source: USGS 7.5-Minute



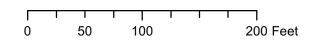
Figure 2: Soil Boring Locations



205 1st Street SW Minot, North Dakota

Aerial Photography: Bing Maps





SAMPLE SB-1 (0113-SB1-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re	covery Act Me	tals	•	•		•	•
Arsenic	7440-38-2	8.4	mg/Kg		1.9	1.6	0.39
Barium	7440-39-3	240	mg/Kg		0.96	190,000	15,000
Cadmium	7440-43-9	0.37	mg/Kg	J	0.48	800	70
Chromium	7440-47-3	11	mg/Kg		1.4	NA	NA
Lead	7439-92-1	27	mg/Kg		0.77	800	400
Selenium	7782-49-2	ND	mg/Kg		0.83	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.15	5,100	390
Mercury	7439-97-6	0.065	mg/Kg		0.017	43	10
Total Petroleum Hydrocarbon	s	•	•	•			•
DRO (C10-C28)	NA	270	mg/Kg		4.3	NA	NA
GRO (C6-C10)	8006-61-9	0.47	mg/Kg	J	1.3	NA	NA
Polycyclic Aromatic Hydrocark	ons			l			
1-Methylnaphthalene	90-12-0	ND	ug/Kg		59	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		100	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		55	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		90	NA	NA
Anthracene	120-12-7	ND	ug/Kg		90	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		110	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		110	210	150
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		140	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		85	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		210	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		140	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		100	210	15
Fluoranthene	206-44-0	ND	ug/Kg		190	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		95	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		120	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		160	18,000	3,600
Phenanthrene	85-01-8	93	ug/Kg	J	1700	NA	NA
Pyrene	129-00-0	130	ug/Kg	J	1700	17,000,000	1,700,000
Volatile Organic Compounds			0/0			17,000,000	1,700,000
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg	UJ	0.54	38,000,000	8,700,000
	79-34-5	ND		UJ	0.64	2,800	560
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	79-00-5	ND	ug/Kg ug/Kg	UJ	0.92	5,300	1,100
1,1,2-Trichloroethane	76-13-1	ND	ug/Kg	UJ	0.47	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg	UJ	0.22	17,000	3,300
1,1-Dichloroethene	75-34-3	ND	ug/Kg	UJ	0.62	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg	UJ	0.78	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg	UJ	0.76	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg	UJ	0.63	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg	UJ	0.54	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg	UJ	0.47		
1,2-Dichloroethane	107-06-2	ND	ug/Kg	UJ	0.73	9,800,000 2,200	1,900,000 430
1,2-Dichloropropane	78-87-5	ND	ug/Kg	UJ	0.73	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg ug/Kg	UJ	0.57	4,700 NA	NA
1,4-Dichlorobenzene	106-46-7	ND		UJ	0.81	12,000	2,400
1,4-Dioxane	123-91-1	ND ND	ug/Kg	UJ	59	17,000	4,900
			ug/Kg				
2-Butanone (MEK) 2-Hexanone	78-93-3 591-78-6	ND ND	ug/Kg	UJ UJ	1.9 5.1	200,000,000	28,000,000
z-nexanone	721-10-0	טאו	ug/Kg	UJ	3.1	1,400,000	210,000



SAMPLE SB-1 (0113-SB1-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL	
Volatile Organic Compounds (Continued)								
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	ug/Kg	UJ	4.5	53,000,000	5,300,000	
Acetone	67-64-1	ND	ug/Kg	UJ	5.6	630,000,000	61,000,000	
Benzene	71-43-2	ND	ug/Kg	UJ	0.49	5,400	1,100	
Bromoform	75-25-2	ND	ug/Kg	UJ	0.24	220,000	62,000	
Bromomethane	74-83-9	ND	ug/Kg	UJ	0.52	32,000	7,300	
Carbon disulfide	75-15-0	ND	ug/Kg	UJ	0.44	3,700,000	820,000	
Carbon tetrachloride	56-23-5	ND	ug/Kg	UJ	0.66	3,000	610	
Chlorobenzene	108-90-7	ND	ug/Kg	UJ	0.56	1,400,000	290,000	
Chlorobromomethane	74-97-5	ND	ug/Kg	UJ	0.31	680,000	160,000	
Chlorodibromomethane	124-48-1	ND	ug/Kg	UJ	0.59	3,300	680	
Chloroethane	75-00-3	ND	ug/Kg	UJ	0.93	61,000,000	15,000,000	
Chloroform	67-66-3	ND	ug/Kg	UJ	0.3	1,500	290	
Chloromethane	74-87-3	ND	ug/Kg	UJ	0.8	500,000	120,000	
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg	UJ	0.58	2,000,000	160,000	
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg	UJ	1.3	NA	NA	
Cyclohexane	110-82-7	ND	ug/Kg	UJ	0.42	29,000,000	7,000,000	
Dichlorobromomethane	75-27-4	ND	ug/Kg	UJ	0.23	1,400	270	
Dichlorodifluoromethane	75-71-8	ND	ug/Kg	UJ	0.54	400,000	94,000	
Ethylbenzene	100-41-4	ND	ug/Kg	UJ	0.7	27,000	5,400	
Isopropylbenzene	98-82-8	ND	ug/Kg	UJ	0.62	11,000,000	2,100,000	
Methyl acetate	79-20-9	ND	ug/Kg	UJ	2.9	1,000,000,000	78,000,000	
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg	UJ	0.35	220,000	43,000	
Methylcyclohexane	108-87-2	ND	ug/Kg	UJ	0.44	NA	NA	
Methylene Chloride	75-09-2	ND	ug/Kg	UJ	1.7	960,000	56,000	
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg	UJ	1.1	NA	NA	
o-Xylene	95-47-6	ND	ug/Kg	UJ	0.64	3,000,000	690,000	
Styrene	100-42-5	ND	ug/Kg	UJ	0.66	36,000,000	6,300,000	
Tetrachloroethene	127-18-4	ND	ug/Kg	UJ	0.62	110,000	22,000	
Toluene	108-88-3	ND	ug/Kg	UJ	0.72	45,000,000	5,000,000	
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg	UJ	0.41	690,000	150,000	
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg	UJ	0.7	NA	NA	
Trichloroethene	79-01-6	ND	ug/Kg	UJ	0.24	6,400	910	
Trichlorofluoromethane	75-69-4	ND	ug/Kg	UJ	1.1	3,400,000	790,000	
Vinyl chloride	75-01-4	ND	ug/Kg	UJ	1.4	1,700	60	

mg/Kg - milligram per kilogram

ug/Kg – microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND – not detected

NA – not available



TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Rec	overy Act Met	als					
Arsenic	7440-38-2	9.7	mg/Kg		2	1.6	0.39
Barium	7440-39-3	190	mg/Kg		0.99	190,000	15,000
Cadmium	7440-43-9	0.32	mg/Kg	J	0.5	800	70
Chromium	7440-47-3	14	mg/Kg		1.5	NA	NA
Lead	7439-92-1	23	mg/Kg		0.8	800	400
Selenium	7782-49-2	ND	mg/Kg		0.86	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.16	5,100	390
Mercury	7439-97-6	0.063	mg/Kg		0.016	43	10
Total Petroleum Hydrocarbons			0. 0				
DRO (C10-C28)	N/A	51	mg/Kg		4.2	NA	NA
GRO (C6-C10)	8006-61-9	0.6	mg/Kg	J	1.3	NA	NA
Polycyclic Aromatic Hydrocarbo			0, 0				
1-Methylnaphthalene	90-12-0	ND	ug/Kg		60	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		100	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		55	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		91	NA	NA
Anthracene	120-12-7	ND	ug/Kg		91	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	150	ug/Kg	J	1800	2,100	150
Benzo[a]pyrene	50-32-8	130	ug/Kg	J	1800	210	15
Benzo[b]fluoranthene	205-99-2	270	ug/Kg	J N	1800	2,100	150
Benzo[g,h,i]perylene	191-24-2	85	ug/Kg	J	1800	2,100 NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg	N IN	210	21,000	1,500
Chrysene	218-01-9	150	ug/Kg) 01 M	1800	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND		J	100	210,000	15,000
Fluoranthene	206-44-0	230	ug/Kg	J	1800	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg	J	96		
	193-39-5	ND	ug/Kg		120	22,000,000 2,100	2,300,000 150
Indeno[1,2,3-cd]pyrene	-		ug/Kg			-	
Naphthalene	91-20-3	ND 100	ug/Kg		170	18,000	3,600
Phenanthrene	85-01-8	100	ug/Kg	J	1800	NA	NA
Pyrene	129-00-0	230	ug/Kg	J	1800	17,000,000	1,700,000
Volatile Organic Compounds	la. 55 6	ND	111		0.64	22 222 222	0.700.000
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg	UJ	0.61	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/Kg	UJ	0.72	2,800	560
1,1,2-Trichloroethane	79-00-5	ND	ug/Kg	UJ	1	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg	UJ	0.53	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg	UJ	0.25	17,000	3,300
1,1-Dichloroethene	75-35-4	ND	ug/Kg	UJ	0.7	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg	UJ	0.88	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg	UJ	0.86	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg	UJ	0.71	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg	UJ	0.61	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg	UJ	0.53	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg	UJ	0.83	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg	UJ	0.65	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg	UJ	0.57	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	ug/Kg	UJ	0.92	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg	UJ	66	17,000	4,900
2-Butanone (MEK)	78-93-3	5.8	ug/Kg	J	24	200,000,000	28,000,000
2-Hexanone	591-78-6	ND	ug/Kg	UJ	5.8	1,400,000	210,000



TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds (C	ontinued)						
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	ug/Kg	UJ	5.1	53,000,000	5,300,000
Acetone	67-64-1	13	ug/Kg	J	24	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg	UJ	0.55	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg	UJ	0.27	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg	UJ	0.59	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg	UJ	0.5	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg	UJ	0.74	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg	UJ	0.64	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg	UJ	0.35	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg	UJ	0.67	3,300	680
Chloroethane	75-00-3	ND	ug/Kg	UJ	1	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg	UJ	0.34	1,500	290
Chloromethane	74-87-3	ND	ug/Kg	UJ	0.91	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg	UJ	0.66	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg	UJ	1.5	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg	UJ	0.47	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg	UJ	0.26	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg	UJ	0.61	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg	UJ	0.79	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg	UJ	0.7	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg	UJ	3.2	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg	UJ	0.4	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg	UJ	0.5	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg	UJ	1.9	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg	UJ	1.2	NA	NA
o-Xylene	95-47-6	ND	ug/Kg	UJ	0.72	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg	UJ	0.74	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg	UJ	0.7	110,000	22,000
Toluene	108-88-3	ND	ug/Kg	UJ	0.81	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg	UJ	0.46	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg	UJ	0.79	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg	UJ	0.27	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg	UJ	1.2	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg	UJ	1.6	1,700	60

mg/Kg - milligram per kilogram

ug/Kg – microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA - not available



SAMPLE SB-3 (0113-SB3-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re	*						
Arsenic	7440-38-2	6.9	mg/Kg		1.9	1.6	0.39
Barium	7440-39-3	200	mg/Kg		0.96	190,000	15,000
Cadmium	7440-43-9	0.37	mg/Kg	J	0.48	800	70
Chromium	7440-47-3	12	mg/Kg		1.4	NA	NA
Lead	7439-92-1	32	mg/Kg		0.76	800	400
Selenium	7782-49-2	ND	mg/Kg		0.82	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.15	5,100	390
Mercury	7439-97-6	0.094	mg/Kg		0.021	43	10
Total Petroleum Hydrocarbons	;						!
DRO (C10-C28)	N/A	48	mg/Kg		4.5	NA	NA
GRO (C6-C10)	8006-61-9	ND	mg/Kg		0.37	NA	NA
Polycyclic Aromatic Hydrocarb	ons		<i>G, G</i>				
1-Methylnaphthalene	90-12-0	ND	ug/Kg		63	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		110	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		58	33,000,000	3,400,000
Acenaphthylene	208-96-8	140	ug/Kg	J	1800	NA	NA
Anthracene	120-12-7	250	ug/Kg	J	1800	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	1000	ug/Kg	J	1800	2,100	150
Benzo[a]pyrene	50-33-3	1000	ug/Kg	J	1800	210	150
Benzo[b]fluoranthene	205-99-2	1500	ug/Kg	J N	1800	2,100	150
Benzo[g,h,i]perylene	191-24-2	660	ug/Kg	J	1800	2,100 NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg	U IU	220	21,000	1,500
Chrysene	218-01-9	1000	ug/Kg	J	1800	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	180	ug/Kg	J	1800	210,000	15,000
Fluoranthene	206-44-0	2200	ug/Kg	J	1800	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		100	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	530	ug/Kg	J	1800	2,100	150
Naphthalene	91-20-3	ND	ug/Kg	,	170	18,000	3,600
Phenanthrene	85-01-8	1100	ug/Kg	J	1800	NA	NA
Pyrene	129-00-0	2500	ug/Kg	,	1800	17,000,000	1,700,000
Volatile Organic Compounds			w.6/6		1000	17,000,000	1,700,000
1,1,1-Trichloroethane	71-55-6	ND	ug/Vg	UJ	0.5	38,000,000	8,700,000
· ·	<u> </u>		ug/Kg				
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	79-34-5 79-00-5	ND ND	ug/Kg	UJ	0.59 0.85	2,800 5,300	560 1,100
1,1,2-Trichloroethane	76-13-1	ND	ug/Kg	UJ	0.43	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg ug/Kg	UJ	0.43	17,000	3,300
1,1-Dichloroethene	75-34-3	ND		UJ	0.57	1,100,000	-
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg	UJ		490,000	240,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg	UJ	0.72 0.7		49,000
1,2-Dibromo-3-Chloropropane	96-12-8		ug/Kg			99,000	22,000
1,2-Dibromo-3-Chioropropane	106-93-4	ND ND	ug/Kg ug/Kg	UJ	0.58 0.5	69 170	5.4 34
1,2-Dichlorobenzene	95-50-1		1				
1,2-Dichloroethane	107-06-2	ND ND	ug/Kg	UJ	0.43 0.67	9,800,000	1,900,000
1,2-Dichloropropane	78-87-5	ND	ug/Kg	UJ	0.53	2,200 4,700	430 940
			ug/Kg			-	
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg	UJ	0.46	NA 12.000	NA 2.400
1,4-Dichlorobenzene	106-46-7	ND	ug/Kg	UJ	0.75	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg	UJ	54	17,000	4,900
2-Butanone (MEK)	78-93-3	ND	ug/Kg	UJ	1.8	200,000,000	28,000,000
2-Hexanone	591-78-6	ND	ug/Kg	UJ	4.7	1,400,000	210,000



SAMPLE SB-3 (0113-SB3-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	(Continued)						
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	ug/Kg	UJ	4.2	53,000,000	5,300,000
Acetone	67-64-1	ND	ug/Kg	UJ	5.2	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg	UJ	0.45	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg	UJ	0.22	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg	UJ	0.48	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg	UJ	0.4	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg	UJ	0.61	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg	UJ	0.52	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg	UJ	0.29	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg	UJ	0.55	3,300	680
Chloroethane	75-00-3	ND	ug/Kg	UJ	0.86	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg	UJ	0.28	1,500	290
Chloromethane	74-87-3	ND	ug/Kg	UJ	0.74	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg	UJ	0.54	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg	UJ	1.2	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg	UJ	0.38	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg	UJ	0.21	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg	UJ	0.5	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg	UJ	0.64	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg	UJ	0.57	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg	UJ	2.6	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg	UJ	0.33	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg	UJ	0.4	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg	UJ	1.5	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg	UJ	1	NA	NA
o-Xylene	95-47-6	ND	ug/Kg	UJ	0.59	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg	UJ	0.61	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg	UJ	0.57	110,000	22,000
Toluene	108-88-3	ND	ug/Kg	UJ	0.66	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg	UJ	0.38	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg	UJ	0.64	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg	UJ	0.22	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg	UJ	1	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg	UJ	1.3	1,700	60

mg/Kg - milligram per kilogram

ug/Kg – microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA - not available



SAMPLE SB-4 (0113-SB4-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re	_		Omes	Qualifier	Detection Limit	ma. son Rsc	Res. Son RSE
Arsenic	7440-38-2	12	mg/Kg		1.9	1.6	0.39
Barium	7440-39-3	100	mg/Kg		0.94	190,000	15,000
Cadmium	7440-43-9	0.26	mg/Kg	J	0.47	800	70
Chromium	7440-47-3	13	mg/Kg	,	1.4	NA	NA NA
Lead	7439-92-1	4.2	mg/Kg		0.75	800	400
Selenium	7782-49-2	ND	mg/Kg		0.81	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.15	5,100	390
Mercury	7439-97-6	0.025	mg/Kg		0.02	43	10
Total Petroleum Hydrocarbon		0.020	6/6		0.02	43	10
DRO (C10-C28)	N/A	20	m = // =	I	4.2	NIA	NIA.
GRO (C6-C10)	8006-61-9	39 ND	mg/Kg mg/Kg		4.2 0.34	NA	NA
		ND	ilig/ kg		0.54	NA	NA
Polycyclic Aromatic Hydrocark				ı			I
1-Methylnaphthalene	90-12-0	ND	ug/Kg		110	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		190	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		100	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		170	NA	NA
Anthracene	120-12-7	ND	ug/Kg		170	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		200	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		200	210	15
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		260	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		160	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		400	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		270	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		190	210	15
Fluoranthene	206-44-0	ND	ug/Kg		360	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		180	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		220	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		310	18,000	3,600
Phenanthrene	85-01-8	ND	ug/Kg		170	NA	NA
Pyrene	129-00-0	ND	ug/Kg		120	17,000,000	1,700,000
Volatile Organic Compounds							
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.45	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/Kg		0.53	2,800	560
1,1,2-Trichloroethane	79-00-5	ND	ug/Kg		0.77	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.39	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.18	17,000	3,300
1,1-Dichloroethene	75-35-4	ND	ug/Kg		0.52	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.66	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.64	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg		0.52	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg		0.45	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg		0.39	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg		0.61	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg		0.48	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg		0.42	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	ug/Kg		0.68	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg		49	17,000	4,900
2-Butanone (MEK)	78-93-3	ND	ug/Kg		1.6	200,000,000	28,000,000
2-Hexanone	591-78-6	ND	ug/Kg		4.3	1,400,000	210,000
			J, 10			1, 100,000	



SAMPLE SB-4 (0113-SB4-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	(Continued)						
Acetone	67-64-1	ND	ug/Kg		4.7	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.41	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.2	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.44	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.37	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.55	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.47	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.26	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.5	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.78	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.25	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.67	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.49	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.1	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.35	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.19	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.45	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.59	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.52	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		2.4	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.3	220,000	43,000
Methylcyclohexane	108-87-2	0.41	ug/Kg	J	4.4	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg		1.4	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		0.91	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.53	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.55	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg		0.52	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.6	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.34	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.59	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.2	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		0.91	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.2	1,700	60

mg/Kg - milligram per kilogram

ug/Kg - microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA – not available



SAMPLE SB-5 (0113-SB5-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re	ecovery Act Me	tals					
Arsenic	7440-38-2	7.1	mg/Kg		2.1	1.6	0.39
Barium	7440-39-3	170	mg/Kg		1	190,000	15,000
Cadmium	7440-43-9	0.27	mg/Kg	J	0.51	800	70
Chromium	7440-47-3	28	mg/Kg		1.5	NA	NA
Lead	7439-92-1	4.4	mg/Kg		0.82	800	400
Selenium	7782-49-2	ND	mg/Kg		0.88	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.16	5,100	390
Mercury	7439-97-6	0.031	mg/Kg		0.018	43	10
Total Petroleum Hydrocarbon	S	•					•
DRO (C10-C28)	N/A	1.2	mg/Kg	J	4	NA	NA
GRO (C6-C10)	8006-61-9	ND	mg/Kg		0.34	NA	NA
Polycyclic Aromatic Hydrocarl	oons	1					
1-Methylnaphthalene	90-12-0	ND	ug/Kg		12	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		20	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		11	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		18	NA	NA
Anthracene	120-12-7	ND	ug/Kg		18	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		21	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		21	210	150
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		28	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		17	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		42	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		29	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		20	210	15,000
Fluoranthene	206-44-0	ND	ug/Kg		38	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		19	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		23	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		33	18,000	3,600
Phenanthrene	85-01-8	ND	ug/Kg		18	NA	NA
Pyrene	129-00-0	ND	ug/Kg		13	17,000,000	1,700,000
Volatile Organic Compounds	1		8/8			17,000,000	1,700,000
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.49	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND			0.58	2,800	560
1,1,2-Trichloroethane	79-34-3	ND	ug/Kg ug/Kg		0.83	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.43	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.43	17,000	3,300
1,1-Dichloroethene	75-34-3	ND	ug/Kg		0.56	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.71	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.69	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg		0.57	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg		0.49	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg		0.43	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg ug/Kg		0.66	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg ug/Kg		0.52	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg ug/Kg		0.45	4,700 NA	NA
1,4-Dichlorobenzene	106-46-7	ND	•		0.74	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg		53	17,000	4,900
		 	ug/Kg				
2-Butanone (MEK) 2-Hexanone	78-93-3 591-78-6	ND ND	ug/Kg ug/Kg		1.7 4.6	200,000,000	28,000,000
2-11EXALIUNE	231-10-0	טוו	ug/ Ng		4.0	1,400,000	210,000



SAMPLE SB-5 (0113-SB5-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	(Continued)						
Acetone	67-64-1	ND	ug/Kg		5.1	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.44	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.22	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.47	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.4	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.6	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.51	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.28	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.54	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.84	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.27	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.73	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.53	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.2	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.38	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.21	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.49	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.63	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.56	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		2.6	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.32	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg		0.4	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg		1.5	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		0.98	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.58	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.6	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg		0.56	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.65	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.37	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.63	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.22	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		0.98	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.3	1,700	60

mg/Kg - milligram per kilogram

ug/Kg – microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA - not available



SAMPLE SB-6 (0113-SB6-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re			Omes	Qualifici	Detection Limit	ma. son nsc	Res. Son RSE
Arsenic	7440-38-2	7.8	mg/Kg		1.8	1.6	0.39
Barium	7440-39-3	130	mg/Kg		0.9	190,000	15,000
Cadmium	7440-43-9	0.23	mg/Kg	J	0.45	800	70
Chromium	7440-47-3	11	mg/Kg	,	1.3	NA	NA
Lead	7439-92-1	3.5	mg/Kg		0.72	800	400
Selenium	7782-49-2	ND	mg/Kg		0.77	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.14	5,100	390
Mercury	7439-97-6	0.028	mg/Kg		0.018	43	10
Total Petroleum Hydrocarbon					0.010	43	10
DRO (C10-C28)	N/A	57	ma/Ka		4.1	NA	NA
GRO (C6-C10)	8006-61-9	ND	mg/Kg mg/Kg		0.34	NA NA	NA NA
		ND	1116/116		0.54	IVA	INA
Polycyclic Aromatic Hydrocarl		ND	///-	I	F.F.	F2 000	16.000
1-Methylnaphthalene	90-12-0	ND	ug/Kg		55	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		93	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		51	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		83	NA	NA 17 000 000
Anthracene	120-12-7	ND	ug/Kg		83	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		98	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		98	210	15
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		130	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		78	NA	NA 1.500
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		200	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		130	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		93	210	15
Fluoranthene	206-44-0	ND	ug/Kg		180	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		88	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		110	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		150	18,000	3,600
Phenanthrene	85-01-8	ND ND	ug/Kg		83	NA	NA
Pyrene	129-00-0	ND	ug/Kg		59	17,000,000	1,700,000
Volatile Organic Compounds	ı				ı		ı
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.44	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/Kg		0.52	2,800	560
1,1,2-Trichloroethane	79-00-5	ND	ug/Kg		0.75	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.38	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.18	17,000	3,300
1,1-Dichloroethene	75-35-4	ND	ug/Kg		0.5	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.64	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.62	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg		0.51	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg		0.44	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg		0.38	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg		0.59	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg		0.47	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg		0.41	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	ug/Kg		0.66	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg		48	17,000	4,900
2-Butanone (MEK)	78-93-3	ND	ug/Kg		1.6	200,000,000	28,000,000
2-Hexanone	591-78-6	ND	ug/Kg		4.1	1,400,000	210,000



SAMPLE SB-6 (0113-SB6-2051ST-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 205 1st Street SW, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	s (Continued)						
Acetone	67-64-1	ND	ug/Kg		4.6	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.4	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.19	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.42	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.36	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.53	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.46	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.25	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.48	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.75	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.25	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.65	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.47	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.1	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.34	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.19	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.44	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.57	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.5	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		2.3	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.29	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg		0.36	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg		1.4	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		0.88	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.52	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.53	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg		0.5	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.58	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.33	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.57	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.19	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		0.88	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.1	1,700	60

mg/Kg - milligram per kilogram

ug/Kg - microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA – not available



Appendix A

Boring Logs



						DRIL	LING	G LOG						HOLE NO. 58-1	
		PANY NAME Federal	Procura	ris Cor	poration		-				CONTRACTOR	AET		SHEE	ET 1 SHEETS
	3. PRO.		á .		b5 15	+5	- Phase	I	4. LOCA	NON 2	05 1	FF 51	_		
	5. NAME	OF DRILLER			hultz	CAE		-	B. MANI	FACIUR	ers designa	TION OF DRILL			
	7. SIZES AND S	ANDTYPES	OF DRILLING	L	2 1/4		Garre!		HOLE	LOCATION B-	erebe 6	SU			
-		·									VATION (Elevati	on top of hole)	,	,	
						•		-	O. DATE	SIARTE	D_	115.	DATE COMP		<u> </u>
	2 OVER	SURDEN TH	CKNESS		,			٦,	1/6/13 1/6/13						
	ia. DEPT	H-DRILLED #	VYO ROCK .		<u> </u>			_ .	e ruber	NA STION OF	. DOJE				
		L DEPTH OF						\perp		90	0		·		
			81	<i>‡</i>							er of core so				
!	a. GEOT	HECHNICAL:	Samples		DIST	JRBED	UN	DISTU	RBED	19. TC	OTAL NUMBER	OF SPUT SPO	ion samples		
	O SAMP HEMICA	LES FOR ANALYSIS	S RCRA METALS	VOCs	SVOCs	TPH	pH	Per	j is	Herbs	RADs	Triaxial Permeabilit	y of a	lines	ILTOTAL CORE
			+	X		$ \chi $,			X		%
	PISPOS FROLE	STION	BACKFIL	reb	MONITORING	(STE	耶 _n i	D. SIG		OF INSI	- /	<u> </u>	<u></u>		
)		×	_					m	icho	ref J	risch	P		
	DEPTH	, <u> </u>					1.88	D	•			S CORE RECOVERY	3 .	MARKS	:
	5 .		,	. c.	OF MATERIALS		12	D NING D TS		TECH PLE/ BOX NO. 8.	SAMPLE NO.	RECOVERY g.		h.	`.
		Black	gravelly	sond	tary las	phaf	0.5	•							
		4		es.I		7		<u> </u>	·			· ·	Frozen	40	5′ <u>-</u>
		dry.	Sme ic	A Obi	Sa angu	lary	0.5	•					suspect	G//	_
)	一) /			מורג / שווח	(۱۹۱۳)						i i			
	=														
	1	ch	1. 1	3	<u> </u>		0.5					44	·		
	, \exists	ر وسو	ury, lei	M:,	black in c	000								1.0	
		clay 5 ti	11		,	. ,						' .	Priller a	A an	end I =
	上;			d one	, slightly	misf	0.6					2'3"	to F 4PH		-
		Pilit gi		~ gim)	ל "ני" ל	1	0,0		· .	•		43	H BI JE'		
	: =	int J	741 13C						•						
	\exists	,	,					.							=
	· 二	Some Cl	y at v	y bei	Hem		-								
				•		* 5			٠.,				.1.		
	一十	Compa	d	l de	1. 6.	الما	20								
	\exists	Conyosi	it soup	Cy 10	ly Fran	VUT 7	M								크
			-										•		
	=		٠.												
j	UECT												HOLE	NO.	

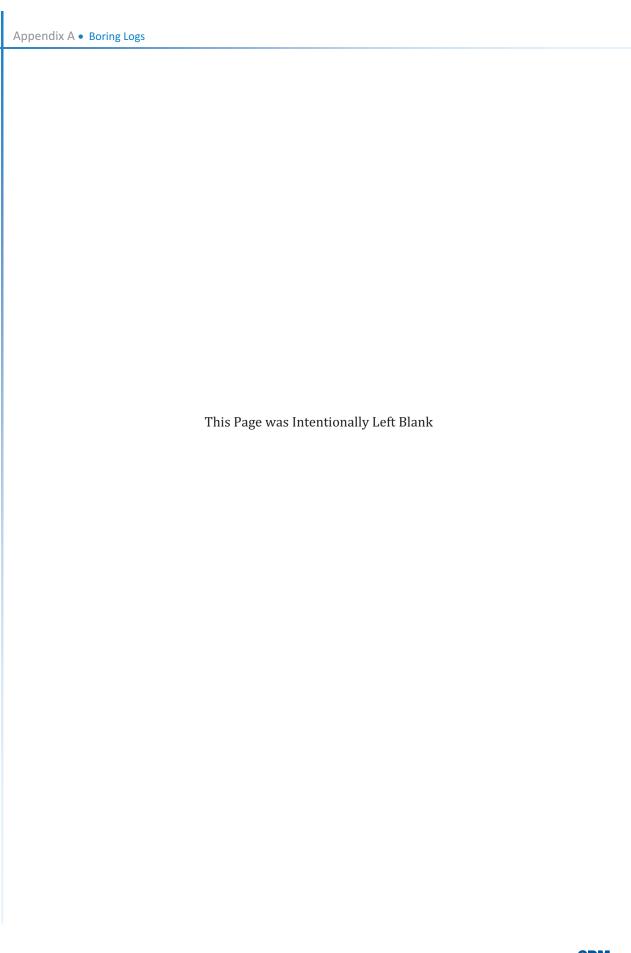
			DRIL	LING	LOC	3	7 v.			B-2
1. COMPANY NAME CIM Federa	l Programs Co	provation			2.0	RILLING SUI	CONTRACTO	"AET		HEET I
3. PROJECT 20	- / / -	Phase.	Π		4. 0	OCATION 2	OS IST			
5. NAME OF DRILLE	<u> </u>		FI)	6. M	ANUFACTUR	ER'S DESIGNA	SE CO		
7. SZES AND TYPES AND SAMPLING E		2 1/41	core	borrel	8. H	OLE LOCATIO	"5B-8	_		
					9. St	IRFACE ELE	VATION (Eleval			
					10. 0	ATESTARTE	ED	111.	DATE COMPLETED	
				<u> </u>	-	1/6/	13		1/6/1-	3
12. OVERBURDENTI	(ICINESS				15. 0	EPIH GROU	NOWATER EN	CODMIENED		
13. DEPTH DRILLED					16. D	RECTION O	FHOLE 9	30		
14. TOTAL DEPTH OF	HOLE & CL				17. 17	OTAL NUMBI	ER OF CORE 8	oxes		
18. GEOTHECHNICAL	SAMPLES	DIST	URBED	UNI	SERVISK	D 10. TO	OTAL NUMBER	OF SPUT SPO	ON SAMPLES	
20. SAMPLES FOR	ARCRA	1			Druk!	1	· 	Trisulat	- Order Projection	SILTOT
20. SAMPLES FOR CHEMICAL AVALYSIS	ARCRA VOC	SVOCs	TPH	pH	Pest/ PCBs	Herbs	RADs	Triaxiai Permeability	-Ottlef Physical	recov
	XX		X						X	
22 DISPOSITION OF HOLE	BACKFILLED	MONITORING	(SLE	iFn 2		URE OF INS			,	
·	X				. •	Mics	hael	Fise	her	
DEPTH	DESCRIPTION	NOF MATERIALS		房	Day G			4 CORE RECOVERY	REMARK	s ·
b.	SECORIF IQ	C. ,		陽	iiis co	EOTECH SAMPLE/ RE BOX NO. 8.	SAMPLE NO	s. RECOVERY	.h₀	
= Aspha	17	,		0,2						
1 - 300.01	le sad at						*************************	· managagaga ya wa		
	ly sardy soil, sub angular c	ran to light	6 man	0.6			}		Frozen down	\ A
2-3°°	- are authorized (lasts, t	ne grai	4					3.5 G	
[]						İ			•	
3-		٠								
3 some i	ne noxidation			0.2		İ		47		
4 - some e	sorbore likely		. •	1				F'	Dopped bt	Got.
]] in ht st	my, growelly so	and							* *## · * * *	
5		I schli.	له لا يسم	. 0.2		,				
Black,	gravelly ken cl	45 , 513""	ניסוי קיניייי	e ""						
r 一 · · · ·		ی یا م	J						Believe this is	
. –	en of tol orange			, o.a				2.594	lettre TW 0	N 971
ter five	sand, angular g	nows, dry, to	race grave	(•	(ease)		
			٠					66		
8-7-		0 11	16 .							•
1 -1 '		I'm hat	f-om	Ī	- 1	·				
= suple o	composite, Vocs	LAM DOL	10101			Į.				
= snyle (composite, Vocs	1800 001	1011							
- I sayle	composite, Vocs	1.84 m	10.11							

			DRILI	ING	10)G					HOLE NO.		
1. COMPANY NAME		•					4 to elle				713-	3	
	Programs Cor	poration	<u> </u>					CONTRACTOR	AET	· · · · · ·	OF /	SHEETS	
20		Phase	IJ.		. •	L LOCAT	d	05 15	1.5+				
S. NAME OF DRILLER	Byron S	chultz	(AE)	[]	٥	6. MANUFACTURERS DESIGNATION OF DRILL GEOPTOBE 6606							
7. SIZES AND TYPES	OF DRILLING JUIPMENT	214	ll core	barre	_ 8	a. HOLELOCATION SB-3							
		<u> </u>			9	SURFA	CE ELEV	ATION (Elevation	in top of hole)				
					٦,	O DATE	STARTE	D	111.	DATE COMPLET	ED		
					7	16	/13	}		1/6/1	3		
12. OVERBURDENTH	CKNESS				15	5. DEPTI	i GROUI	NOWATER ENC	DUNTERED		•		
13. DEPTH DRILLED I	NTO ROCK	<u> </u>			16	. OREC	TION OF	HOLE 900)	· · · · · · · · · · · · · · · · · · ·			
14. TOTAL DEPTH OF	A. TOTAL DEPTH OF HOLE C.						NUMBE	R OF CORE BO		<u> </u>			
18. GEOTHECHNICAL	8/	1 heri	JRBED	1 1954	HUTEK						<u></u>		
10. GEOTHECHNICAL	3AMPUED .	· Dist)NBEU	CINE	AG+UF	(669	10. TC	TAL NUMBER (OF SPUT SPO	ON SAMPLES			
20, SAMPLES FOR CHEMICAL ANALYSIS	SECRA VOCE	SVOCs	ТРН	pH	Pest	1	Heibs	RADs	Triaxiai Permesbiik	-Cattle Physic	SIT RECO	OVERY	
			1			1.					\neg	0/	
20 BIGOODIYANI	4 1	1401/CD01/C			~~~							<u>%</u>	
OF ROLE	BYCKLIFTED	MONITORING WELL	(SPEER	5 7	3, ŞIG	MICKE	OF INSP		1 -	_ /			
				ł			110	ichay	di	sky			
DEPTH	DESCRIPTION	OF MATERIALS		of El	DING	GEO	ECH E/ OXNO.	ANALYTICAL	* CORE RECOVERY	REMA	RKS		
.	_	•		SCREEN.	ilts D	l .	BÖX NO. B.	ſ.		,h	•	· ·	
二 /海州	gray, gravelly	and, sul	newbo	0.	,					No apphalt	recove,	e/ _	
- dry	Fine grained		9	0.1								<u>-</u>	
	che bound	- July 19	J				ļ				-	=	
an con	clay, brown color e surface, stiff	Fidre	ויי ליין									-	
14 - 304/K	SIF _	/-							·		•	_	
	em of silt star			0.1	Ì				Ì	Form to	36	, <u> </u>	
3 - growe/	ly sand, light	to dark be	SPA STA						istaell.		, , ,		
	war, fine grain	ea,	•						4'10"				
	they conso	•					.		┺──				
= Driller	roles easy /	s push fi	m/M	0.2					•		•		
5-3.5"	16 6.2, like	'Fillest	÷			·							
- Caph	wed in core.		. *									크	
6	y, black, oni	, נו	_ tti .										
I lean de	y, black, one	st, soft, t	cappes	0.2									
	gray, han clay												
= SINIM	anist, soft	ייין ויכ אוואיייייין איייייייייייייייייייייייייי	ww.						1'10"				
8 - Purhial	brick of boffer	i.									•		
	,		ú	1			.					듸	
- I some c	somposite, voc	s tem 6	10thorn						.			=	
\exists							. [
=												=	
OJECT		***************************************			<u>.</u>			· · · · · · · · · · · · · · · · · · ·		HOLE NO).		

			· · · · · · · · · · · · · · · · · · ·			DRIL	LIN	GL	OG				HOLE NO. 58-4		
	1. COMPAN		Procura	ms Con	coration			•	2 ORIL	UNG SUB	CONTRACTOR	AET	<u> </u>	SHEET 1 OF SHEETS	
()	3. PROJEC	_			f Phas	eII		. •	4. LOCATION 205 ld 57						
() j	5. NAMEO	FORKLER			Schult				B. MANU	FACTURE	REDESIGNAT	DOC GG	05		
	7. SZES AN AND SAN	PUNG EQ	F DRILLING UIPMENT		2 1/4"	coeb	aste		. HOLE	LOCATIO	SE				
									9. SURFACE ELEVATION (Elevation top of hole)						
									to DATE	STARTE	<u>२</u>	11.	DATE COMPLET	(7 7	
•	12. OVERBU	ROEN THIS	CKNESS						5. DEPT	H GROUN	DWATER ENC	OUNTERED		<u> </u>	
	13. DEPTH	ORILLED IN	TO ROCK		<u> </u>			1	6. DIRE	CTION OF	7 77 1	5			
	14. TOTAL O	EPTH OF I	IOLE &	. /			····	,	7. TOTA	L NUMBE	R OF CORE BO				
	18. GEOTHE	CHNICAL S			DIST	VRBED		UNDISTU	RBED	10. TO	TAL NUMBER	OF SPUT SPOO	ON SAMPLES		
	20. SAMPLE	SFOR	6 RCRA		SVOCs	T T	1	B	·,		RADs	Triaxial Permeability	-Other Physics	71 TOTAL CORE	
	CHEMICAL A	nacysis	A RCRA METALS	VOCs	31001	TPH	ρH	ß	3 ·	Heibs	KAUS	Permeability	-Outer Frilyac		
	22 Dicaser	1011	\times	X	ACMITORIA!	X		72 64	TALL IS	E OF INSP	ECTOR			- %	
	22, DISPOSIT	ION	BACKFII	TED	MONITORING	OTH (SPEC	iPY)	_ 23. 30				- A	1		
			X		· <u>· · · · · · · · · · · · · · · · · · </u>		<u>.</u>		. /		had	Fise		·	
	DEPTH		DES	CRIPTION	OF MATERIALS		SC R	FIELD REENING ESULTS 12.	CORE	TECH IPLE/ BOX NO.		RECOVERY	REMAI		
	b.	19H 05	phalf	<u>e.</u>			- 1		-	e	1.	g.	,h.		
\ / 	∥, ‡.	ו ווס			gravelly:	. 1	(<i>D.</i> / ;				}	**	Ξ	
		$H^{\prime\prime\prime}_{J}$ by 1 .	ght gray	to tany	gravery:	im/								=	
	[a-=]	ovy, a	ng hilar,	conse i	# Pine	•					·		Frost at	3FI =	
]]	Q ¹ 1 coré	likht gro	as hard	rock, gav	ite?L	-likoly	Contr	e te				Driller note	rost sofwell	
	3		CALLA	can mal	olion, gran	vel la son	1	1					drilling, all	most estwel	
	∥.,∃′	warse,	Salarga	ar, slig	htly mois	ey's	'					3'7"		=	
					-silf/like		المحال	Conc	ete	*		~	<u>-</u>		
	[-]	Y" Sear	of 64	d sitt	dirt? or	ン う			Į.						
	1 -1						al .)-{	3					=	
	[6.7]	1tght	gray h	light be	owy grai	iely sm	11								
	וַ 📙 📗	fr. col	Var. So	ne iten	ohidation	000	0								
	[>-],	his to a	ngular	cust)					1						
- 1	le = 1	d of ±	: 115 Car	brance.	ct bottom				,			2'6"			
	1 "			. •						.]				
1) <u> </u>	Devlay 116	, surfill	1/ Vocs	From to	posite									
					અના	- VIII				.				=	
	-												2 (AL - AL - AL - AL - AL - AL - AL - AL	Ξ	
ין													HOLE NO	~	

			DRIL	LING	LOG			HOLE NO.		
1. COMPANY NAME	Programs Co	moration		•	2 ORIL	IING SUB	CONTRACTOR	AET	• :	SHEET 1 OF SHEETS
3 PROJECT	205 157	/	ase I		4. LOC	NOTE -	205 157			
5. NAME OF DRILLER		chalt-	(A)		6. MAN	JFACTURE.	RS DESIGNAT	ON OF DRILL	- · · · · · · · · · · · · · · · · · · ·	
7. SIZES AND TYPES O AND SAMPLING EQ		2/4	Core	Garne)	8. HOLE	LOCATIO	M 4	3-5		
	<u> </u>				9. SURF	ACE ELEV	ATION (Elevatio			
					10. DAT	ESTARTE	D	11.	DATE COMPLET	
12, OVERBURDEN THE	CKNESS				15. DEP	TH GROUP	13 NOWATER ENC	OUNTERED	1/6/	/3
							/	V4	<u> </u>	
13. DEPTH DRILLED IN	TO ROCK				16. DIRE	CTION OF	HOLE	00		
14. TOTAL DEPTH OF I	HOLE 81				17. 107/	AL NUMBE	R OF CORE 90	XES		•
18. GEOTHECHNICAL	SAMPLES	DIST	URBED	UNDO	CERRUTE	19. TO	ITAL NUMBER (OF SPUT SPOO	ON SAMPLES	
20, SAMPLES FOR CHEMICAL ANALYSIS	S RCRA VOC	s svocs	TPH	pH	Pest/ PCBs	Herbs	RADs	Triaxiai Permeability	PAH	PILTOTAL CO
OF BRIDGE PRINCIPES	X X		X			· · · · · · · · · · · · · · · · · · ·				\dashv .
7 DISCOCITION	00	MONITORING	OTHE	D 22	SIGNATUR	E CE INCE	ECTOR		X	. 9
DISPOSITION OF ROLE	EVCKLITTED	MONITORING	(SPEC	Ph			/	Fin.	1	
	X				. 3	Mec	had	de	hes	
DEPTH	DESCRIPTIO	NOF MATERIALS	;	SCREEN RESUL	ING SA	TECH VPLE/ BOX NO.	SAMPLE NO.	% CORE RECOVERY	REMA	RKS
b		c. ;		d.		e.	l,	. S .	,h,	, ·
= 8".ag		•		0.1						
- twh	light gray	gravelles	Widn	`						<u></u>
= angula	light gray, v dus for, con	re erailal	con							. !
	40 17 7 44	ex y all a	Univ	.]				·		<u>-</u>
]	. 1	12116 h	ard ca L						Frest at	31
	er and grave lor, baks lik	· marten	z :	0.1			2'0" >		•	. ;
4 - Bock to	Lifore	- 1	•				50	7		
= Uppo 8	" is sandy,	lean day, h	رال	0.1		1				
5 - dry, Li	sht bown in	961								<u> </u>
]_										
C - light for	non-durkgo	ay, grave	ly sand.							
= course,	angular, dry	, for quarte	ite abb	g						
7							OLCH S			
	slightly one			0.1			3'6"	7		
6			1 11.	'						· · · · ·
coultry	te sagle, Vo	Cs trom	botta	1		.				•
=									•	<u>.</u>
\exists	."		•				·			
\neg										

			LIN	3 LC	LOG 2. DRILLING SUBCONTRACTOR AET						SB-6				
	YMY NAME Federal	Progra	ris Com	coration			2	2. ORULUI	NG SUB	CONTRACTOR	AET		SHI OF	EET 1 SHEET	
3. PRO.				St Pl	10.50	it.	4	4. LOCATION 205 ST ST							
5. NAME	OF DRILLER			nultz	(AE	77	6.	8. MANUFACTURER'S DESIGNATION OF DRILL. GEODIC LE 6600							
7. SIZES AND S	AND TYPES C			2 /4" co	re bas	re(8.	HOLEL		N .	<u> 6601</u>	<i></i>			
- : - :	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						9.	SURFAC	ZE ELEV	SB- ATION (Elevati	on top of hole)			 -	
		· · · · · · · · · · · · · · · · · · ·			-			O. DATE/	FABTE		14	. DATE COM	PLETED	·	
								. 1,	16/1	3		1.	16/1	3	
12. OVER	BURDEN THI	CKNESS					15	5. DEPTH	GROUP	IDWATER EN					
13. DEPT	H DRILLED IN	TO ROCK		<u> </u>			16	DIRECT	ION OF	LIFUE	00				
14, TOTA	. DEPTH OF I	HOLE	5/				17	7. TOTAL	NUMBE	R OF CORE S			•		
18. GEOT	HECHNICAL S		•	DIST	URBED	U	NDISTUR	18ED	19. TO	TAL NUMBER	OF SPUT SP	DON SAMPLE	s		
		Y - 722221		<u> </u>					_		1 = 1 - 1 - 1		Hysical	Di TOTAL	
CHEMICA CHEMICA	LES FOR ANALYSIS	METALS	VOCs	SVOCs	TPH	pH	Pest/ PCB:	-	Herbs	RADs	Triaxiai Permeabă	ky Other	Physical	PI TOTAL OF	
		X	X		X						M] \			
2 DISPO	NOITE	BACKFIL	TED	MONITORING	(SPEC	ir _y	23. SIG	NATURE	OFINSP	ECTOR				<u> </u>	
		1					1	1	he-	hael	4	h.			
)			l s	EID :	•		-			REMARKS		
DEPTH b.	ľ	DES		OF MATERIALS	•	SCE B5	EENING SUTS	GEOT SAMP CORE B			RECOVERY	1 '			
	711.C	asola /	6.				ч.	•		. (,	S.		h.	······	
	ं ज	· · · · · · /		was slight fine gained sand to less about		, 0.	[I:]	ļ.							
L	Chyes :	sand, da	A bou	was sight	راز ۱۹۰۹ و										
	50H, 5h	baya br	clasts, l	fine gaine	d										
9 -	1 1 1	dia	c) Blue	sand to	nce d	4									
	C CONTO	age const	d count	1 to sale	ablac		İ					-1	, ,	0/	
3—	9	·'J'					,	•				Trast	to 3	,	
=		of silf sl				0,			•		4Ft				
4-	dill be	Je whi	ite, N	n gravelly	sw.		-		.	, , ,					
	France C	oldles c	ant Si	ie a widet	in An	0.	2					}			
5-7	1811 of	His	<u>ን</u>	in oxidat	r .				İ		1				
\vdash	•			•	1		.								
٦ ــــــــــــــــــــــــــــــــــــ					1				.						
゛ヸ		g g g g g	u · c	طسم طري	1				ĺ	•					
、	New bo	Hom, 4	of	pink rock,						٠.	3011				
' ¬	hody!	likely li	mesten	ر : ا		0.7	2				28"			•	
	Sme 9	s befor	8, 500	ive by sand										•	
' =	_		·						.					•	
\exists	Compesi	le Journ	m, v	ocs from	n both	M				-					
		•				1							•	•	
-												l			

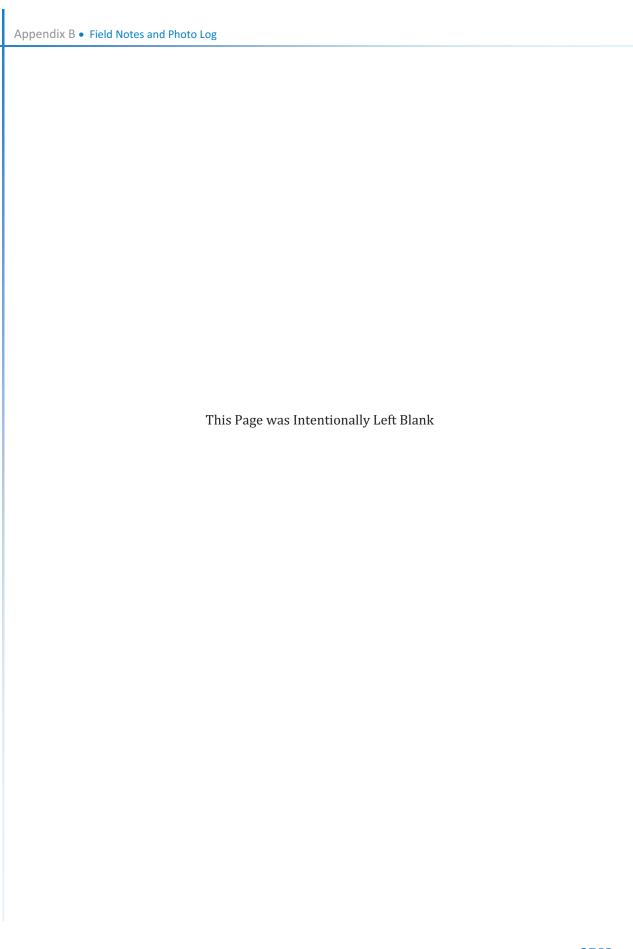




Appendix B

Field Notes and Photo Log





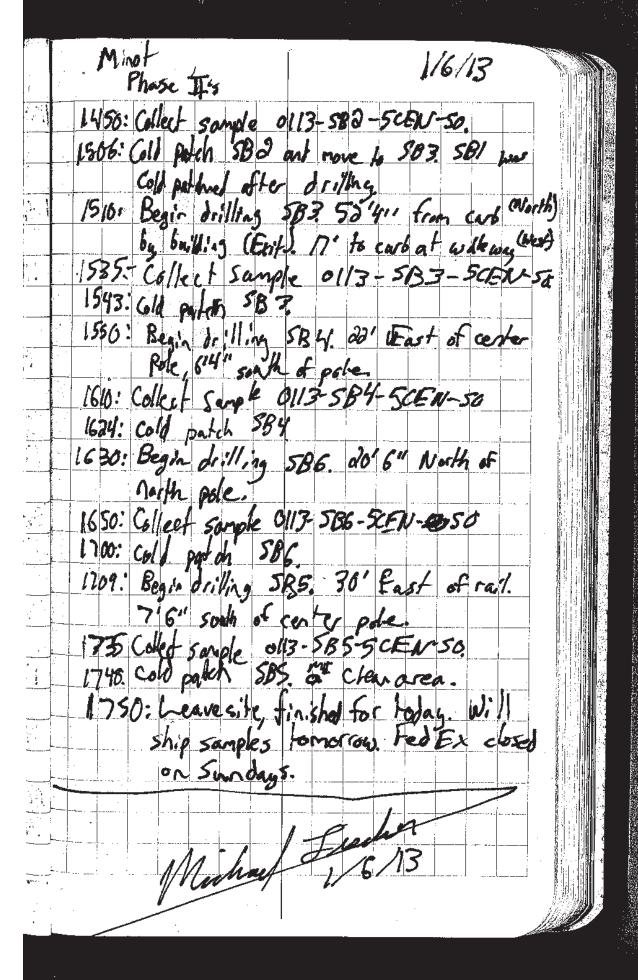


Minot 1/6/13 Phase II's Author: Michael Fischer (MSF) Onsite: MJF, Gordon Horn (ODM snith)
Byran Schultz (AET) Weather: Partly Cloudy, high of 27%, all lasks! Soil borings PPE: Level D 0810: Arrive at 2051st St. Conduct site with, and check utilities. 6836: Examine SBI. location Location under pile of snow. Moved to left in side guest sail Approximately 8 At east of gate, 577

north of guard Gal.

0840: Conduct site Health and surfety meeting. Gordon leaves to get hard hat Prill rig warming up. 6855: Begin drilling at SRI. 0100: To depth 8ft 0930: Collect Souple 0113-581-205157-68 1000: Begin drilling at SB2 9 ft east of ord corner 1265 1, 7 A north of corner post. 1625- Collect sample 0113-5BA-205157-50 1645: Move to 583. 1055: Besin drilling \$B3. Rete Muphs with the hot to know that it's show up tarking let developer Mihal Franke

Minot Phase I's 1/6/13 1120 · Collect sample 0113- 503-205 157-50 SB-84 is 425' north of wille power po 15' east. Pete Murphy leaves. 1142: Begin drilling 8 B4 583 is 66'10" north or South good sail, 40'4" east of west cail. 1215: Collect 0/13-504-265/57-50. VOCS acutolog composited collected Bottom are placed in comperife bowl prior to USC suple collection 1223: Byron cold patches SBI - 584 Move to SB6. 7218" North of west pole. 14' Ext of we 1227: Begin drilling SBG. 1255. Collect 0113 - 205 157-50. Byran call patches hole 1368: Begin drilling 5B5 19:4" south north force, 11' 4" east of wall sence. 1330: Collect sample 6113 584585-205151-50 1335: Move to 5 Central Ave site Conduct steak 1350: Selap and begin doiling SB1. \$7.5' East of was fail, 477 north of rail 1406: Robert Haverson own lots, show up Discussed willities and leaves. 1415: Collect sample 0113-581-5CEN-50.
1430: Begin drilling SBD 25' East ofrail 500 with of cail Michael Fish



City of Minot 205 1st Street SW, Minot, ND Photo Log

Date:

January 6, 2013

Filename:

205 1st St_SB-1 (2).JPG

Borehole: SB-1

Direction: North

Photo Description: Prior to positioning geoprobe, borehole locations were cleared of utilities.



Date:

January 6, 2013

Filename:

205 1st St_SB-1 (9).JPG

Borehole: SB-1

Direction: N/A

Photo Description:

Typical soil encountered at 205 1st Street SW was a gravelly sand. Refer to boring logs for complete USCS classification





City of Minot 205 1st Street SW, Minot, ND Photo Log

Date:

January 6, 2013

Filename:

205 1st St_SB-2 (8).JPG

Borehole: SB-2

Direction: N/A

Photo Description:

Occasional bands of lean clay were also encountered in SB-1, SB-2, SB-3, and SB-5 at varying depths (center of photo). Also in SB-2 (shown), a 2"-3" seam of red orange, very dry clay was noted.



Date:

January 6, 2013

Filename:

205 1st St_SB-4 (7).JPG

Borehole: SB-4

3D-4

Direction: N/A

Photo Description:

Trace cobbles were encountered in several boreholes. The example shown is from SB-4 and was likely concrete.





City of Minot 205 1st Street SW, Minot, ND Photo Log

Date:

January 6, 2013

Filename:

205 1st St_SB-5 (13).JPG

Borehole: SB-5

Direction: N/A

Photo Description: After completion of drilling, the surface was restored using a cold asphalt patch.



Date:

January 6, 2013

Filename:

205 1st St_SB-6 (1).JPG

Borehole: SB-6

Direction: Northeast

Photo Description:

Final borehole locations were confirmed by measuring locations from stationary landmarks.





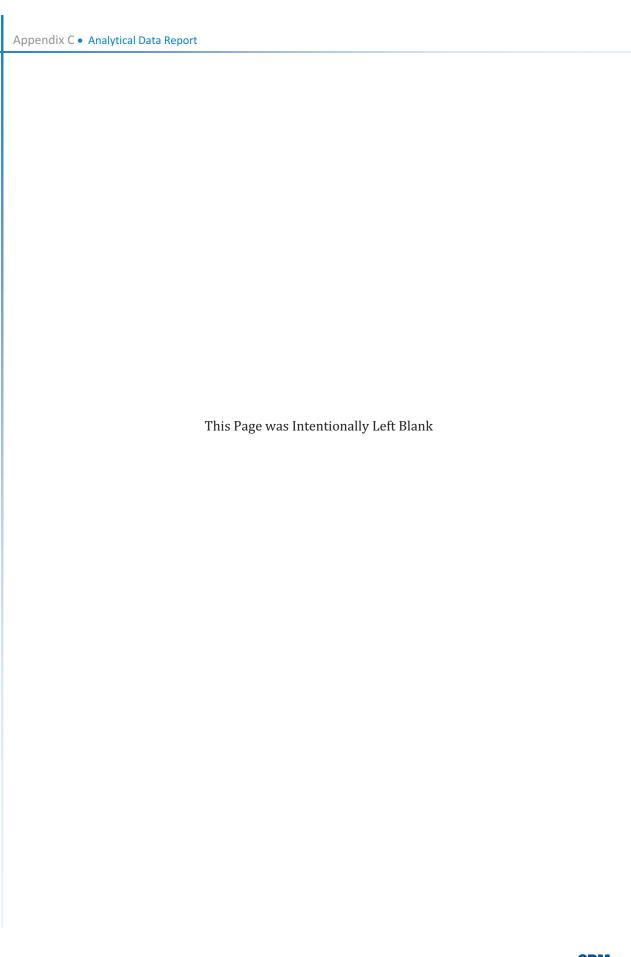
Appendix C

Analytical Data Report

The following paragraph is the data validation and usability summary of data for the limited Phase II ESAs conducted at two sites for the same client (205 1st Street SW, Minot, North Dakota and 5 Central Avenue West, Minot, North Dakota).

Twelve sediment samples were received intact and properly preserved on January 8, 2013 by Test America in Arvada, Colorado. All holding times were met with the exception of the GC/MS volatile analysis for three samples, 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO, and 0113-SB3-2051ST-SO. It should be noted that one of these samples was received past the 48 hour holding time and the other two were received within two hours of holding time expiration. The laboratory promptly prepared samples 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO, and 0113-SB3-2051ST-SO, so that the holding time exceedances were no more than three hours past the method specified holding time for sample preparation by EPA Method 5035. The volatiles results for the samples prepared past the holding time are reported as estimated values and are qualified with a "UJ" or "J". All method blanks and laboratory control samples were within acceptance criteria for all analytical methods. The surrogate recoveries for diesel range organics, gasoline range organics, volatile organic compounds, and semivolatile organic analyses were all within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries and relative percent differences (RPD) met acceptance criteria, with the exception of diesel range organics and mercury analysis. Both MS and MSD recoveries for diesel range organics and the MSD recovery for mercury were outside recovery limits, while the RPD failed for both methods. It is suspected that matrix interference may have led to the failures in spike recoveries and precision, therefore the diesel range organics and mercury results of the sample used to prepare the MS/MSD, 0113-SB1-2051ST-SO, are reported as estimated values with a "J" qualifier. There were three samples; 0113-SB2-2051ST-SO, 0113-SB3-2051ST-SO, 0113-SB6-5CEN-SO; where benzo[b]fluoranthene and benzo[k]fluoranthene could not be resolved due to matrix interference. The laboratory quantitated the unresolved peaks and reported the results as benzo[b]fluoranthene. The laboratory reported benzo[k]fluoranthene as not detected, acknowledging that the compound could be present. The results for benzo[b]fluoranthene and benzo[k]fluoranthene were qualified "JN" and "UJN", respectively, to qualify them as tentatively identified and estimated values. The data has been qualified as indicated and found to be 100% useable.







2

3

5

7

10

12

13



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street Arvada, CO 80002 Tel: (303)736-0100

TestAmerica Job ID: 280-37602-1

Client Project/Site: MINOT (RENTALINFR.IMAGINELMI)

For:

CDM Smith, Inc. 125 South Wacker Drive Suite 600 Chicago, Illinois 60606

Attn: John Grabs

Authorized for release by: 1/10/2013 3:44:51 PM

Kae Yoder Project Manager II

kae.yoder@testamericainc.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: CDM Smith, Inc.
Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	5
Detection Summary	6
Method Summary	10
Sample Summary	11
Client Sample Results	12
Surrogate Summary	45
QC Sample Results	47
QC Association	61
Chronicle	67
Chain of Custody	73
Receint Checklists	76

5

8

10

12

13

14

Case Narrative

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

3

Job ID: 280-37602-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: CDM Smith, Inc.

Project: MINOT (RENTALINFR.IMAGINELMI)

Report Number: 280-37602-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

Please note that Non-Detect (ND) results have been evaluated down to the Method Detection Limit (MDL) and should be considered ND at the MDL.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 1/8/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 5.0° C, 5.2° C and 5.4° C.

GC/MS VOLATILES - SW846 8260B

The 5035 prep for samples 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO and 0113-SB3-2051ST-SO, requesting VOC 5035/8260B analysis, was performed outside the recommended 48 hour sample holding time. The samples were received with insufficient time remaining for the laboratory to perform the prep within the holding time. It is TestAmerica's policy to analyze all samples within holding times; however, the laboratory cannot guarantee that hold times will be met when samples are received with less than half the hold time remaining.

The method required MS and MSD analysis could not be performed for prep batches 280-154981 and 280-154985, due to insufficient sample volume submitted by the client. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

No other anomalies were encountered.

GC/MS SEMIVOLATILES - SW846 8270C - PAHs

Due to the nature of the sample matrix, samples 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO, 0113-SB3-2051ST-SO, 0113-SB4-2051ST-SO and 0113-SB6-2051ST-SO required dilutions prior to analysis. The reporting limits have been elevated accordingly. The laboratory noted that the sample extracts were viscous, and analysis at less diluted concentrations would jeopardize the integrity of the instrument.

Surrogate recoveries have been "D" flagged in samples 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO, 0113-SB3-2051ST-SO, 0113-SB4-2051ST-SO and 0113-SB6-2051ST-SO, as the recoveries obtained are calculated from diluted samples and are not considered reliable.

Compounds Benzo(b)fluoranthene and Benzo(k)fluoranthene were unresolved in several samples due to matrix interferences. It can be noted that these compounds were adequately resolved in associated standards, indicating the instrument is achieving separation. The combined peak was reported as Benzo(b)fluoranthene, while Benzo(k)fluoranthene was reported as undetected even though it may be present. Associated results have been "K" flagged.

No other nomalies were encountered.

TestAmerica Denver

Case Narrative

Client: CDM Smith, Inc.

TestAmerica Job ID: 280-37602-1 Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Job ID: 280-37602-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

GASOLINE RANGE ORGANICS - SW846 8015C

No anomalies were encountered.

DIESEL RANGE ORGANICS - SW846 8015C

The MS/MSD performed on sample 0113-SB1-2051ST-SO exhibited percent recoveries and RPD data outside the control limits. The LCS was within control limits.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

The serial dilution performed on sample 0113-SB1-2051ST-SO indicates that physical and chemical interferences are present for Lead.

No other anomalies were encountered.

3

Definitions/Glossary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

MS or MSD exceeds the control limits

RPD of the MS and MSD exceeds the control limits

TestAmerica Job ID: 280-37602-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
Н	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
001101	

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Somi VOA	

GC Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	
Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\tilde{\pi}	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB1-2051ST-SO

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	93	J	1700	90	ug/Kg	5	₽	8270C	Total/NA
Pyrene	130	J	1700	64	ug/Kg	5	₽	8270C	Total/NA
GRO (C6-C10)	0.47	J	1.3	0.35	mg/Kg	1	₽	8015C	Total/NA
DRO (C10-C28)	270		4.3	0.73	mg/Kg	1	₽	8015C	Total/NA
Arsenic	8.4		1.9	0.64	mg/Kg	1	₩	6010B	Total/NA
Barium	240		0.96	0.073	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.37	J	0.48	0.040	mg/Kg	1	₽	6010B	Total/NA
Chromium	11		1.4	0.056	mg/Kg	1	₩	6010B	Total/NA
Lead	27		0.77	0.26	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.065		0.017	0.0055	mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: 0113-SB2-2051ST-SO

Client Sample ID: 0113-S	nt Sample ID: 0113-SB2-2051ST-SO							Lab Sample ID: 280-37602-2				
_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type			
Acetone	13	JH	24	6.3	ug/Kg	1	₩	8260B	Total/NA			
2-Butanone (MEK)	5.8	JH	24	2.2	ug/Kg	1	₩	8260B	Total/NA			
Benzo[a]anthracene	150	J	1800	110	ug/Kg	5	₩	8270C	Total/NA			
Benzo[a]pyrene	130	J	1800	110	ug/Kg	5	₽	8270C	Total/NA			
Benzo[b]fluoranthene	270	JK	1800	140	ug/Kg	5	₩	8270C	Total/NA			
Benzo[g,h,i]perylene	85	J	1800	85	ug/Kg	5	₩	8270C	Total/NA			
Chrysene	150	J	1800	140	ug/Kg	5	₽	8270C	Total/NA			
Fluoranthene	230	J	1800	190	ug/Kg	5	₩	8270C	Total/NA			
Phenanthrene	100	J	1800	91	ug/Kg	5	₩	8270C	Total/NA			
Pyrene	230	J	1800	64	ug/Kg	5	₩	8270C	Total/NA			
GRO (C6-C10)	0.60	J	1.3	0.35	mg/Kg	1	₩	8015C	Total/NA			
DRO (C10-C28)	51		4.2	0.72	mg/Kg	1	₽	8015C	Total/NA			
Arsenic	9.7		2.0	0.66	mg/Kg	1	₽	6010B	Total/NA			
Barium	190		0.99	0.076	mg/Kg	1	₩	6010B	Total/NA			
Cadmium	0.32	J	0.50	0.041	mg/Kg	1	₽	6010B	Total/NA			
Chromium	14		1.5	0.058	mg/Kg	1	₽	6010B	Total/NA			
Lead	23		0.80	0.27	mg/Kg	1	₽	6010B	Total/NA			
Mercury	0.063		0.016	0.0051	mg/Kg	1	₩	7471A	Total/NA			

Client Sample ID: 0113-SB3-2051ST-SO

<u> </u>								<u> </u>	
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	140	J	1800	95	ug/Kg	5	₩	8270C	Total/NA
Anthracene	250	J	1800	95	ug/Kg	5	₽	8270C	Total/NA
Benzo[a]anthracene	1000	J	1800	110	ug/Kg	5	₽	8270C	Total/NA
Benzo[a]pyrene	1000	J	1800	110	ug/Kg	5	₽	8270C	Total/NA
Benzo[b]fluoranthene	1500	JK	1800	150	ug/Kg	5	₽	8270C	Total/NA
Benzo[g,h,i]perylene	660	J	1800	89	ug/Kg	5	₽	8270C	Total/NA
Chrysene	1000	J	1800	150	ug/Kg	5	₩	8270C	Total/NA
Dibenz(a,h)anthracene	180	J	1800	110	ug/Kg	5	₽	8270C	Total/NA
Fluoranthene	2200		1800	200	ug/Kg	5	₽	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	530	J	1800	120	ug/Kg	5	₽	8270C	Total/NA
Phenanthrene	1100	J	1800	95	ug/Kg	5	₽	8270C	Total/NA
Pyrene	2500		1800	68	ug/Kg	5	₽	8270C	Total/NA
DRO (C10-C28)	48		4.5	0.76	mg/Kg	1	₽	8015C	Total/NA
Arsenic	6.9		1.9	0.63	mg/Kg	1	₽	6010B	Total/NA
Barium	200		0.96	0.073	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.37	J	0.48	0.039	mg/Kg	1	₽	6010B	Total/NA

TestAmerica Denver

Lab Sample ID: 280-37602-3

Detection Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB3-2051ST-SO (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12		1.4	0.055	mg/Kg	1	₩	6010B	Total/NA
Lead	32		0.76	0.26	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.094		0.021	0.0070	mg/Kg	1	₽	7471A	Total/NA

lient Sample ID: 0113-SB4	I-2051ST-SO			Lab Sample IL): 280-37602 - 4
Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type

Prep Type
Total/NA
Total/NA
Total/NA
Total/NA
Total/NA
Total/NA
Total/NA
Total/NA
_

Client Sample ID: 0113-SB3-5CEN-SO

Lab Sample ID: 280-37602-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.2	4.6	0.54	ug/Kg		₩	8260B	Total/NA
DRO (C10-C28)	0.90 J	4.0	0.68	mg/Kg	1	₩	8015C	Total/NA
Arsenic	6.9	1.9	0.62	mg/Kg	1	₽	6010B	Total/NA
Barium	140	0.94	0.072	mg/Kg	1	₽	6010B	Total/NA
Cadmium	0.24 J	0.47	0.039	mg/Kg	1	₽	6010B	Total/NA
Chromium	9.3	1.4	0.055	mg/Kg	1	₩	6010B	Total/NA
Lead	3.8	0.75	0.25	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.023	0.023	0.0073	mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: 0113-SB4-5CEN-SO

Lab Sample ID: 280-37602-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		1.9	0.64	mg/Kg		₩	6010B	Total/NA
Barium	97		0.96	0.073	mg/Kg	1	₽	6010B	Total/NA
Cadmium	0.25	J	0.48	0.039	mg/Kg	1	₩	6010B	Total/NA
Chromium	7.6		1.4	0.056	mg/Kg	1	₽	6010B	Total/NA
Lead	3.2		0.77	0.26	mg/Kg	1	₽	6010B	Total/NA
Selenium	0.84	J	1.3	0.83	mg/Kg	1	₩	6010B	Total/NA
Mercury	0.022		0.019	0.0062	mg/Kg	1	\$	7471A	Total/NA

Client Sample ID: 0113-SB6-5CEN-SO

Lab Sample ID: 280-37602-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	29	JK	350	28	ug/Kg		₩	8270C	Total/NA
Phenanthrene	23	J	350	18	ug/Kg	1	₽	8270C	Total/NA
Pyrene	33	J	350	13	ug/Kg	1	₽	8270C	Total/NA
DRO (C10-C28)	2.2	J	4.2	0.70	mg/Kg	1	₽	8015C	Total/NA
Arsenic	14		1.8	0.59	mg/Kg	1	₽	6010B	Total/NA
Barium	140		0.90	0.068	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.36	J	0.45	0.037	mg/Kg	1	₽	6010B	Total/NA
Chromium	9.2		1.3	0.052	mg/Kg	1	₽	6010B	Total/NA
Lead	7.8		0.72	0.24	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.023		0.021	0.0070	mg/Kg	1	₽	7471A	Total/NA

TestAmerica Denver

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-8

Lab Sample ID: 280-37602-9

Lab Sample ID: 280-37602-10

Lab Sample ID: 280-37602-11

Lab Sample ID: 280-37602-12

Client Sample ID: 0113-SB5-5CEN-SO

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	1.0	J	4.0	0.68	mg/Kg	1	₽	8015C	Total/NA
Arsenic	6.6		2.0	0.66	mg/Kg	1	₽	6010B	Total/NA
Barium	150		1.0	0.076	mg/Kg	1	₽	6010B	Total/NA
Cadmium	0.25	J	0.50	0.041	mg/Kg	1	₽	6010B	Total/NA
Chromium	7.9		1.5	0.058	mg/Kg	1	₽	6010B	Total/NA
Lead	3.7		0.80	0.27	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.023		0.018	0.0058	mg/Kg	1	φ.	7471A	Total/NA

Client Sample ID: 0113-SB6-2051ST-SO

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	57	4.1	0.70	mg/Kg	1	₩	8015C	Total/NA
Arsenic	7.8	1.8	0.59	mg/Kg	1	₽	6010B	Total/NA
Barium	130	0.90	0.068	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.23 J	0.45	0.037	mg/Kg	1	₽	6010B	Total/NA
Chromium	11	1.3	0.052	mg/Kg	1	₩	6010B	Total/NA
Lead	3.5	0.72	0.24	mg/Kg	1	₩	6010B	Total/NA
Mercury	0.028	0.018	0.0059	mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: 0113-SB5-2051ST-SO

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	1.2	J	4.0	0.68	mg/Kg	1	₩	8015C	Total/NA
Arsenic	7.1		2.1	0.68	mg/Kg	1	₩	6010B	Total/NA
Barium	170		1.0	0.078	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.27	J	0.51	0.042	mg/Kg	1	₽	6010B	Total/NA
Chromium	28		1.5	0.060	mg/Kg	1	₽	6010B	Total/NA
Lead	4.4		0.82	0.28	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.031		0.018	0.0057	mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: 0113-SB1-5CEN-SO

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.9	J	5.4	1.7	ug/Kg	1	₩	8260B	Total/NA
Phenanthrene	17	J	330	17	ug/Kg	1	₩	8270C	Total/NA
Pyrene	21	J	330	12	ug/Kg	1	₽	8270C	Total/NA
DRO (C10-C28)	8.0		4.0	0.68	mg/Kg	1	₽	8015C	Total/NA
Arsenic	6.3		1.9	0.64	mg/Kg	1	₽	6010B	Total/NA
Barium	110		0.96	0.073	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.24	J	0.48	0.039	mg/Kg	1	₽	6010B	Total/NA
Chromium	8.9		1.4	0.056	mg/Kg	1	₽	6010B	Total/NA
Lead	3.7		0.77	0.26	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.020		0.017	0.0054	mg/Kg	1	\$	7471A	Total/NA

Client Sample ID: 0113-SB2-5CEN-SO

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		1.9	0.63	mg/Kg	1	₩	6010B	Total/NA
Barium	110		0.95	0.073	mg/Kg	1	₽	6010B	Total/NA
Cadmium	0.26	J	0.48	0.039	mg/Kg	1	₽	6010B	Total/NA
Chromium	9.9		1.4	0.055	mg/Kg	1	₽	6010B	Total/NA
Lead	3.9		0.76	0.26	mg/Kg	1	₩	6010B	Total/NA

TestAmerica Denver

Page 8 of 76

0

5

7

0

10

12

13

14

Detection Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB2-5CEN-SO (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fa	c D	Method	Prep Type
Mercury	0.022		0.016	0.0053	mg/Kg		1 ☆	7471A	Total/NA

Λ

5

C

Q

9

10

12

13

Method Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
'471A	Mercury (CVAA)	SW846	TAL DEN
/loisture	Percent Moisture	EPA	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

3

4

7

8

_

10

12

13

Sample Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-37602-1	0113-SB1-2051ST-SO	Solid	01/06/13 09:30	01/08/13 09:00
280-37602-2	0113-SB2-2051ST-SO	Solid	01/06/13 10:25	01/08/13 09:00
280-37602-3	0113-SB3-2051ST-SO	Solid	01/06/13 11:20	01/08/13 09:00
280-37602-4	0113-SB4-2051ST-SO	Solid	01/06/13 12:15	01/08/13 09:00
280-37602-5	0113-SB3-5CEN-SO	Solid	01/06/13 15:35	01/08/13 09:00
280-37602-6	0113-SB4-5CEN-SO	Solid	01/06/13 16:10	01/08/13 09:00
280-37602-7	0113-SB6-5CEN-SO	Solid	01/06/13 16:50	01/08/13 09:00
280-37602-8	0113-SB5-5CEN-SO	Solid	01/06/13 17:35	01/08/13 09:00
280-37602-9	0113-SB6-2051ST-SO	Solid	01/06/13 12:55	01/08/13 09:00
280-37602-10	0113-SB5-2051ST-SO	Solid	01/06/13 13:30	01/08/13 09:00
280-37602-11	0113-SB1-5CEN-SO	Solid	01/06/13 14:15	01/08/13 09:00
280-37602-12	0113-SB2-5CEN-SO	Solid	01/06/13 14:50	01/08/13 09:00

6

7

8

9

10

12

13

RL

MDL Unit

D

Prepared

Client: CDM Smith, Inc.

Analyte

trans-1,2-Dichloroethene

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichloroethene

trans-1,3-Dichloropropene

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Result Qualifier

ND H

ND H

ND H

ND H

ND H

ND H

ND H

ND H

Client Sample ID: 0113-SB1-2051ST-SO

Date Collected: 01/06/13 09:30 Date Received: 01/08/13 09:00

Lab Sample ID: 280-37602-1 **Matrix: Solid**

Analyzed

Percent Solids: 93.5

Dil Fac

Allalyte	ixesuit	Qualifier	IXL.	WIDE	Oilit		riepareu	Allalyzeu	Dillac
Acetone	ND	H	21	5.6	ug/Kg	\	01/08/13 11:07	01/08/13 14:45	1
Benzene	ND	Н	5.2	0.49	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Bromoform	ND	Н	5.2	0.24	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Bromomethane	ND	Н	10	0.52	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	1
2-Butanone (MEK)	ND	Н	21	1.9	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Carbon disulfide	ND	Н	5.2	0.44	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Carbon tetrachloride	ND	Н	5.2	0.66	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	1
Chlorobenzene	ND	Н	5.2	0.56	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Chlorobromomethane	ND	Н	5.2	0.31	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Chlorodibromomethane	ND	Н	5.2	0.59	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	1
Chloroethane	ND	Н	10	0.93	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Chloroform	ND	Н	10	0.30	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Chloromethane	ND	Н	10	0.80	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
cis-1,2-Dichloroethene	ND	Н	2.6	0.58	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
cis-1,3-Dichloropropene	ND	Н	5.2	1.3	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Cyclohexane	ND	Н	5.2	0.42	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,2-Dibromo-3-Chloropropane	ND	Н	10	0.63	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,2-Dibromoethane	ND	Н	5.2	0.54	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,2-Dichlorobenzene	ND	Н	5.2	0.47	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,3-Dichlorobenzene	ND	Н	5.2	0.50	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,4-Dichlorobenzene	ND	Н	5.2	0.81	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Dichlorobromomethane	ND	Н	5.2	0.23	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Dichlorodifluoromethane	ND	Н	10	0.54	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,1-Dichloroethane	ND	Н	5.2	0.22	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,2-Dichloroethane	ND	Н	5.2	0.73	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,1-Dichloroethene	ND	Н	5.2	0.62	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,2-Dichloropropane	ND	Н	5.2	0.57	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,4-Dioxane	ND	Н	520	59	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Ethylbenzene	ND	Н	5.2	0.70	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
2-Hexanone	ND	Н	21	5.1	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Isopropylbenzene	ND	Н	5.2	0.62	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Methyl acetate	ND	Н	10	2.9	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Methylcyclohexane	ND	Н	5.2	0.44	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Methylene Chloride	ND	Н	5.2	1.7	ug/Kg	₩.	01/08/13 11:07	01/08/13 14:45	1
4-Methyl-2-pentanone (MIBK)	ND	Н	21	4.5	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Methyl tert-butyl ether	ND	Н	21	0.35	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
m-Xylene & p-Xylene	ND	Н	2.6	1.1	ug/Kg	φ	01/08/13 11:07	01/08/13 14:45	1
o-Xylene	ND	Н	2.6	0.64	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
Styrene	ND	Н	5.2	0.66	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1
1,1,2,2-Tetrachloroethane	ND	Н	5.2	0.64	ug/Kg	☼	01/08/13 11:07	01/08/13 14:45	1
Tetrachloroethene	ND	Н	5.2	0.62	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	1
Talaasa			- 0	0.70		244	04/00/40 44:07	04/00/40 44:45	

TestAmerica Denver

01/08/13 14:45

01/08/13 14:45

01/08/13 14:45

01/08/13 14:45

01/08/13 14:45

01/08/13 14:45

01/08/13 14:45

01/08/13 14:45

5.2

2.6

5.2

5.2

5.2

5.2

5.2

5.2

0.72 ug/Kg

0.41 ug/Kg

0.70 ug/Kg

0.78 ug/Kg

0.76 ug/Kg

0.54 ug/Kg

0.92 ug/Kg

0.24 ug/Kg

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

₽

₽

Client: CDM Smith, Inc.

Vinyl chloride

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

01/08/13 14:45

01/08/13 11:07

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND H

Client Sample ID: 0113-SB1-2051ST-SO	Lab Sample ID: 280-37602-1
Date Collected: 01/06/13 09:30	Matrix: Solid

Date Received: 01/08/13 09:00 Percent Solids: 93.5 Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac ₩ Trichlorofluoromethane ND H 10 1.1 ug/Kg 01/08/13 11:07 01/08/13 14:45 1,1,2-Trichlorotrifluoroethane ND H 21 01/08/13 11:07 01/08/13 14:45 0.47 ug/Kg

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 127	01/08/13 11:07	01/08/13 14:45	
Dibromofluoromethane (Surr)	93		75 - 121	01/08/13 11:07	01/08/13 14:45	1
1,2-Dichloroethane-d4 (Surr)	86		58 - 140	01/08/13 11:07	01/08/13 14:45	1
Toluene-d8 (Surr)	102		80 - 126	01/08/13 11:07	01/08/13 14:45	1

5.2

1.4 ug/Kg

Client Sample ID: 0113-SB2-2051ST-SO Lab Sample ID: 280-37602-2

Date Collected: 01/06/13 10:25

Date Received: 01/08/13 09:00

Matrix: Solid
Percent Solids: 92.3

Date Received: 01/08/13 09:00 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Percent Soli Analyzed	ds: 92.3 Dil Fac
Acetone	13	J H	24	6.3	ug/Kg	<u> </u>	01/08/13 11:07	01/08/13 15:45	1
Benzene	ND	Н	5.9	0.55	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Bromoform	ND	Н	5.9	0.27		₩	01/08/13 11:07	01/08/13 15:45	1
Bromomethane	ND	H	12	0.59	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
2-Butanone (MEK)	5.8	J H	24	2.2	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Carbon disulfide	ND	Н	5.9	0.50	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Carbon tetrachloride	ND	Н	5.9	0.74	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Chlorobenzene	ND	Н	5.9	0.64	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Chlorobromomethane	ND	Н	5.9	0.35	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Chlorodibromomethane	ND	Н	5.9	0.67	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
Chloroethane	ND	Н	12	1.0	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Chloroform	ND	Н	12	0.34	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Chloromethane	ND	Н	12	0.91	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
cis-1,2-Dichloroethene	ND	Н	2.9	0.66	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
cis-1,3-Dichloropropene	ND	Н	5.9	1.5	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Cyclohexane	ND	Н	5.9	0.47	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
1,2-Dibromo-3-Chloropropane	ND	Н	12	0.71	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,2-Dibromoethane	ND	Н	5.9	0.61	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,2-Dichlorobenzene	ND	Н	5.9	0.53	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
1,3-Dichlorobenzene	ND	Н	5.9	0.57	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,4-Dichlorobenzene	ND	Н	5.9	0.92	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Dichlorobromomethane	ND	Н	5.9	0.26	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Dichlorodifluoromethane	ND	Н	12	0.61	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,1-Dichloroethane	ND	Н	5.9	0.25	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,2-Dichloroethane	ND	Н	5.9	0.83	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
1,1-Dichloroethene	ND	Н	5.9	0.70	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,2-Dichloropropane	ND	Н	5.9	0.65	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,4-Dioxane	ND	Н	590	66	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Ethylbenzene	ND	Н	5.9	0.79	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
2-Hexanone	ND	Н	24	5.8	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Isopropylbenzene	ND	Н	5.9	0.70	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Methyl acetate	ND	Н	12	3.2	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Methylcyclohexane	ND	Н	5.9	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Methylene Chloride	ND	Н	5.9	1.9	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
4-Methyl-2-pentanone (MIBK)	ND	Н	24	5.1	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Methyl tert-butyl ether	ND	Н	24	0.40	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB2-2051ST-SO

Date Collected: 01/06/13 10:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-2

Matrix: Solid

Lab Sample ID: 280-37602-3

Matrix: Solid

Date Received: 01/08/13 09:00	09:00						Percent Solids: 92		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND	H	2.9	1.2	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
o-Xylene	ND	Н	2.9	0.72	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
Styrene	ND	Н	5.9	0.74	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,1,2,2-Tetrachloroethane	ND	Н	5.9	0.72	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
Tetrachloroethene	ND	Н	5.9	0.70	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Toluene	ND	Н	5.9	0.81	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
trans-1,2-Dichloroethene	ND	Н	2.9	0.46	ug/Kg	φ.	01/08/13 11:07	01/08/13 15:45	1
trans-1,3-Dichloropropene	ND	Н	5.9	0.79	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,2,3-Trichlorobenzene	ND	Н	5.9	0.88	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,2,4-Trichlorobenzene	ND	Н	5.9	0.86	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
1,1,1-Trichloroethane	ND	Н	5.9	0.61	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,1,2-Trichloroethane	ND	Н	5.9	1.0	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Trichloroethene	ND	Н	5.9	0.27	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
Trichlorofluoromethane	ND	Н	12	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,1,2-Trichlorotrifluoroethane	ND	Н	24	0.53	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Vinyl chloride	ND	Н	5.9	1.6	ug/Kg		01/08/13 11:07	01/08/13 15:45	1

Surrogate	%Recovery Quali	ifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	76 - 127	01/08/13 11:07	01/08/13 15:45	1
Dibromofluoromethane (Surr)	83	75 - 121	01/08/13 11:07	01/08/13 15:45	1
1,2-Dichloroethane-d4 (Surr)	87	58 - 140	01/08/13 11:07	01/08/13 15:45	1
Toluene-d8 (Surr)	102	80 - 126	01/08/13 11:07	01/08/13 15:45	1

Client Sample ID: 0113-SB3-2051ST-SO

Date Collected: 01/06/13 11:20

Date Received: 01/08/13 09:00								Percent Soli	ds: 87.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	19	5.2	ug/Kg	*	01/08/13 11:07	01/08/13 16:04	1
Benzene	ND	Н	4.8	0.45	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Bromoform	ND	Н	4.8	0.22	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Bromomethane	ND	Н	9.6	0.48	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
2-Butanone (MEK)	ND	Н	19	1.8	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Carbon disulfide	ND	Н	4.8	0.40	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Carbon tetrachloride	ND	Н	4.8	0.61	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
Chlorobenzene	ND	Н	4.8	0.52	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chlorobromomethane	ND	Н	4.8	0.29	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chlorodibromomethane	ND	Н	4.8	0.55	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
Chloroethane	ND	Н	9.6	0.86	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chloroform	ND	Н	9.6	0.28	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chloromethane	ND	Н	9.6	0.74	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
cis-1,2-Dichloroethene	ND	Н	2.4	0.54	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
cis-1,3-Dichloropropene	ND	Н	4.8	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Cyclohexane	ND	Н	4.8	0.38	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
1,2-Dibromo-3-Chloropropane	ND	Н	9.6	0.58	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,2-Dibromoethane	ND	Н	4.8	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,2-Dichlorobenzene	ND	Н	4.8	0.43	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
1,3-Dichlorobenzene	ND	Н	4.8	0.46	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,4-Dichlorobenzene	ND	Н	4.8	0.75	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Dichlorobromomethane	ND	Н	4.8	0.21	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
Dichlorodifluoromethane	ND	Н	9.6	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1

Client: CDM Smith, Inc.

Date Collected: 01/06/13 11:20

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB3-2051ST-SO

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

I ah	Sample	ID:	280	-37602	ď

Matrix: Solid

Date Received: 01/08/13 09:00								Percent Soli	ds: 87.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H	4.8	0.20	ug/Kg	\	01/08/13 11:07	01/08/13 16:04	1
1,2-Dichloroethane	ND	Н	4.8	0.67	ug/Kg	φ.	01/08/13 11:07	01/08/13 16:04	1
1,1-Dichloroethene	ND	Н	4.8	0.57	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
1,2-Dichloropropane	ND	Н	4.8	0.53	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,4-Dioxane	ND	Н	480	54	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Ethylbenzene	ND	Н	4.8	0.64	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
2-Hexanone	ND	Н	19	4.7	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Isopropylbenzene	ND	Н	4.8	0.57	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
Methyl acetate	ND	Н	9.6	2.6	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Methylcyclohexane	ND	Н	4.8	0.40	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Methylene Chloride	ND	Н	4.8	1.5	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
4-Methyl-2-pentanone (MIBK)	ND	Н	19	4.2	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Methyl tert-butyl ether	ND	Н	19	0.33	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
m-Xylene & p-Xylene	ND	Н	2.4	1.0	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
o-Xylene	ND	Н	2.4	0.59	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Styrene	ND	Н	4.8	0.61	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
1,1,2,2-Tetrachloroethane	ND	Н	4.8	0.59	ug/Kg	*	01/08/13 11:07	01/08/13 16:04	1
Tetrachloroethene	ND	Н	4.8	0.57	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
Toluene	ND	Н	4.8	0.66	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
trans-1,2-Dichloroethene	ND	Н	2.4	0.38	ug/Kg	*	01/08/13 11:07	01/08/13 16:04	1
trans-1,3-Dichloropropene	ND	Н	4.8	0.64	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
1,2,3-Trichlorobenzene	ND	Н	4.8	0.72	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
1,2,4-Trichlorobenzene	ND	Н	4.8	0.70	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
1,1,1-Trichloroethane	ND	Н	4.8	0.50	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
1,1,2-Trichloroethane	ND	Н	4.8	0.85	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Trichloroethene	ND	Н	4.8	0.22	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
Trichlorofluoromethane	ND	Н	9.6	1.0	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
1,1,2-Trichlorotrifluoroethane	ND	Н	19	0.43	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Vinyl chloride	ND	Н	4.8	1.3	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1

Surrogate	%Recovery (Qualifier Lin	nits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110	76	- 127	01/08/13 11:07	01/08/13 16:04	1
Dibromofluoromethane (Surr)	96	75	- 121	01/08/13 11:07	01/08/13 16:04	1
1,2-Dichloroethane-d4 (Surr)	89	58	<i>-</i> 140	01/08/13 11:07	01/08/13 16:04	1
Toluene-d8 (Surr)	106	80	_ 126	01/08/13 11:07	01/08/13 16:04	1

Client Sample ID: 0113-SB4-2051ST-SO

Date Collected: 01/06/13 12:15

Date Received: 01/08/13 09:00								Percent Soli	ds: 95.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		17	4.7	ug/Kg	<u></u>	01/08/13 11:07	01/08/13 16:23	1
Benzene	ND		4.4	0.41	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Bromoform	ND		4.4	0.20	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Bromomethane	ND		8.7	0.44	ug/Kg	\$	01/08/13 11:07	01/08/13 16:23	1
2-Butanone (MEK)	ND		17	1.6	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Carbon disulfide	ND		4.4	0.37	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Carbon tetrachloride	ND		4.4	0.55	ug/Kg	\$	01/08/13 11:07	01/08/13 16:23	1
Chlorobenzene	ND		4.4	0.47	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Chlorobromomethane	ND		4.4	0.26	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Chlorodibromomethane	ND		4 4	0.50	ua/Ka	- -	01/08/13 11:07	01/08/13 16:23	1

TestAmerica Denver

Lab Sample ID: 280-37602-4

Matrix: Solid

Page 15 of 76

Client: CDM Smith, Inc.

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

1,2-Dichloroethane-d4 (Surr)

Toluene-d8 (Surr)

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB4-20518 Date Collected: 01/06/13 12:15								Sample ID: 280 Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		8.7	0.78	ug/Kg	<u> </u>	01/08/13 11:07	01/08/13 16:23	1
Chloroform	ND		8.7	0.25	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Chloromethane	ND		8.7	0.67	ug/Kg		01/08/13 11:07	01/08/13 16:23	1
cis-1,2-Dichloroethene	ND		2.2	0.49	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
cis-1,3-Dichloropropene	ND		4.4	1.1	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Cyclohexane	ND		4.4	0.35	ug/Kg	₩.	01/08/13 11:07	01/08/13 16:23	1
1,2-Dibromo-3-Chloropropane	ND		8.7	0.52	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,2-Dibromoethane	ND		4.4	0.45	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,2-Dichlorobenzene	ND		4.4	0.39	ug/Kg		01/08/13 11:07	01/08/13 16:23	1
1,3-Dichlorobenzene	ND		4.4	0.42	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,4-Dichlorobenzene	ND		4.4	0.68	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Dichlorobromomethane	ND		4.4	0.19	ug/Kg	φ.	01/08/13 11:07	01/08/13 16:23	1
Dichlorodifluoromethane	ND		8.7	0.45	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,1-Dichloroethane	ND		4.4	0.18	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,2-Dichloroethane	ND		4.4		ug/Kg		01/08/13 11:07	01/08/13 16:23	1
1,1-Dichloroethene	ND		4.4	0.52	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,2-Dichloropropane	ND		4.4		ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,4-Dioxane	ND		440	49	ug/Kg		01/08/13 11:07	01/08/13 16:23	1
Ethylbenzene	ND		4.4	0.59	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
2-Hexanone	ND		17	4.3	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Isopropylbenzene	ND		4.4	0.52	ug/Kg	-	01/08/13 11:07	01/08/13 16:23	1
Methyl acetate	ND		8.7	2.4	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Methylcyclohexane	0.41	J	4.4	0.37	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Methylene Chloride	ND		4.4	1.4	ug/Kg		01/08/13 11:07	01/08/13 16:23	1
4-Methyl-2-pentanone (MIBK)	ND		17	3.8	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
Methyl tert-butyl ether	ND		17	0.30	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
m-Xylene & p-Xylene	ND		2.2	0.91	ug/Kg	-	01/08/13 11:07	01/08/13 16:23	1
o-Xylene	ND		2.2		ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
Styrene	ND		4.4		ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg	-	01/08/13 11:07	01/08/13 16:23	1
Tetrachloroethene	ND		4.4		ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
Toluene	ND		4.4		ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
trans-1,2-Dichloroethene	ND		2.2		ug/Kg	-	01/08/13 11:07	01/08/13 16:23	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg	ф	01/08/13 11:07	01/08/13 16:23	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Trichloroethene	ND		4.4		ug/Kg		01/08/13 11:07	01/08/13 16:23	1
Trichlorofluoromethane	ND		8.7	0.91	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,1,2-Trichlorotrifluoroethane	ND		17		ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Vinyl chloride	ND		4.4		ug/Kg		01/08/13 11:07	01/08/13 16:23	1
-					-		_		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

TestAmerica Denver

01/08/13 11:07 01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

76 - 127

75 - 121

58 - 140

80 - 126

113

95

86

103

3

4

6

8

10

12

. .

Client: CDM Smith, Inc.

Trichloroethene

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: 0113-SB3-5CEN-5 Date Collected: 01/06/13 15:35						Sample ID: 280-37602- Matrix: Soli
Date Received: 01/08/13 09:00						Percent Solids: 92.
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed Dil Fa
Acetone	ND	18	5.0 ug/Kg	*	01/08/13 11:07	01/08/13 16:42
Benzene	ND	4.6	0.43 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Bromoform	ND	4.6	0.21 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Bromomethane	ND	9.2	0.46 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
2-Butanone (MEK)	ND	18	1.7 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Carbon disulfide	ND	4.6	0.39 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Carbon tetrachloride	ND	4.6	0.58 ug/Kg	φ.	01/08/13 11:07	01/08/13 16:42
Chlorobenzene	ND	4.6	0.50 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Chlorobromomethane	ND	4.6	0.28 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Chlorodibromomethane	ND	4.6	0.53 ug/Kg	\$	01/08/13 11:07	01/08/13 16:42
Chloroethane	ND	9.2	0.82 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Chloroform	ND	9.2	0.27 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Chloromethane	ND	9.2	0.71 ug/Kg		01/08/13 11:07	01/08/13 16:42
cis-1,2-Dichloroethene	ND	2.3	0.52 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
cis-1,3-Dichloropropene	ND	4.6	1.2 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Cyclohexane	ND	4.6	0.37 ug/Kg	φ.	01/08/13 11:07	01/08/13 16:42
1,2-Dibromo-3-Chloropropane	ND	9.2	0.55 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
1,2-Dibromoethane	ND	4.6	0.48 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
1,2-Dichlorobenzene	ND	4.6	0.42 ug/Kg	-	01/08/13 11:07	01/08/13 16:42
1,3-Dichlorobenzene	ND	4.6	0.44 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
1,4-Dichlorobenzene	ND	4.6	0.72 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Dichlorobromomethane	ND	4.6	0.20 ug/Kg	-	01/08/13 11:07	01/08/13 16:42
Dichlorodifluoromethane	ND	9.2	0.48 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
1,1-Dichloroethane	ND	4.6	0.19 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
1,2-Dichloroethane	ND	4.6	0.65 ug/Kg	-	01/08/13 11:07	01/08/13 16:42
1,1-Dichloroethene	ND	4.6	0.54 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
1,2-Dichloropropane	ND	4.6	0.51 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
1,4-Dioxane	ND	460	52 ug/Kg	- -	01/08/13 11:07	01/08/13 16:42
Ethylbenzene	ND	4.6	0.62 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
2-Hexanone	ND	18	4.5 ug/Kg	\$	01/08/13 11:07	01/08/13 16:42
Isopropylbenzene	ND	4.6	0.54 ug/Kg	- -	01/08/13 11:07	01/08/13 16:42
Methyl acetate	ND	9.2	2.5 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Methylcyclohexane	ND	4.6	0.39 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
Methylene Chloride	ND	4.6	1.5 ug/Kg		01/08/13 11:07	01/08/13 16:42
4-Methyl-2-pentanone (MIBK)	ND	18	4.0 ug/Kg	₩	01/08/13 11:07	01/08/13 16:42
Methyl tert-butyl ether	ND	18	0.31 ug/Kg	₽	01/08/13 11:07	01/08/13 16:42
m-Xylene & p-Xylene	ND	2.3	0.96 ug/Kg	ф	01/08/13 11:07	01/08/13 16:42
	ND	2.3	0.56 ug/Kg	т Ф	01/08/13 11:07	
o-Xylene	ND	4.6	0.58 ug/Kg	т Ф		01/08/13 16:42
Styrene					01/08/13 11:07	01/08/13 16:42
1,1,2,2-Tetrachloroethane	ND	4.6	0.56 ug/Kg	*	01/08/13 11:07	01/08/13 16:42
Tetrachloroethene	6.2 ND	4.6	0.54 ug/Kg 0.64 ug/Kg	\$	01/08/13 11:07	01/08/13 16:42
Toluene	ND	4.6			01/08/13 11:07	01/08/13 16:42
trans-1,2-Dichloroethene	ND ND	2.3	0.36 ug/Kg	‡	01/08/13 11:07	01/08/13 16:42
trans-1,3-Dichloropropene	ND	4.6	0.62 ug/Kg	Ţ.	01/08/13 11:07	01/08/13 16:42
1,2,3-Trichlorobenzene	ND	4.6	0.69 ug/Kg	X .	01/08/13 11:07	01/08/13 16:42
1,2,4-Trichlorobenzene	ND	4.6	0.67 ug/Kg	‡	01/08/13 11:07	01/08/13 16:42
1,1,1-Trichloroethane	ND	4.6	0.48 ug/Kg	\$	01/08/13 11:07	01/08/13 16:42
1,1,2-Trichloroethane	ND	4.6	0.81 ug/Kg		01/08/13 11:07	01/08/13 16:42

TestAmerica Denver

01/08/13 16:42

© 01/08/13 11:07

0.21 ug/Kg

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB3-5CEN	N-SO						Lab S	Sample ID: 280-	37602-5
Date Collected: 01/06/13 15:35								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		9.2	0.96	ug/Kg	₩	01/08/13 11:07	01/08/13 16:42	1
1,1,2-Trichlorotrifluoroethane	ND		18	0.42	ug/Kg	≎	01/08/13 11:07	01/08/13 16:42	1
Vinyl chloride	ND		4.6	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 127				01/08/13 11:07	01/08/13 16:42	1
Dibromofluoromethane (Surr)	94		75 - 121				01/08/13 11:07	01/08/13 16:42	1
1,2-Dichloroethane-d4 (Surr)	88		58 - 140				01/08/13 11:07	01/08/13 16:42	1
Toluene-d8 (Surr)	100		80 - 126				01/08/13 11:07	01/08/13 16:42	1

Client Sample ID: 0113-SB4-5CEN-SO

Date Collected: 01/06/13 16:10

Lab Sample ID: 280-37602-6

Matrix: Solid

ate Received: 01/08/13 09:00 Percent Solids: 93.5

Date Received: 01/08/13 09:00							Percent Soli	ds: 93.5
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND ND	19	5.0	ug/Kg	*	01/08/13 11:07	01/08/13 17:01	1
Benzene	ND	4.7	0.44	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Bromoform	ND	4.7	0.21	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Bromomethane	ND	9.3	0.47	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
2-Butanone (MEK)	ND	19	1.7	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Carbon disulfide	ND	4.7	0.39	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Carbon tetrachloride	ND	4.7	0.59	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1
Chlorobenzene	ND	4.7	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Chlorobromomethane	ND	4.7	0.28	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Chlorodibromomethane	ND	4.7	0.53	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1
Chloroethane	ND	9.3	0.83	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
Chloroform	ND	9.3	0.27	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
Chloromethane	ND	9.3	0.72	ug/Kg	φ	01/08/13 11:07	01/08/13 17:01	1
cis-1,2-Dichloroethene	ND	2.3	0.52	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
cis-1,3-Dichloropropene	ND	4.7	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Cyclohexane	ND	4.7	0.37	ug/Kg		01/08/13 11:07	01/08/13 17:01	1
1,2-Dibromo-3-Chloropropane	ND	9.3	0.56	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,2-Dibromoethane	ND	4.7	0.48	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,2-Dichlorobenzene	ND	4.7	0.42	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,3-Dichlorobenzene	ND	4.7	0.45	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,4-Dichlorobenzene	ND	4.7	0.73	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Dichlorobromomethane	ND	4.7	0.21	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1
Dichlorodifluoromethane	ND	9.3	0.48	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,1-Dichloroethane	ND	4.7	0.20	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,2-Dichloroethane	ND	4.7	0.65	ug/Kg	φ.	01/08/13 11:07	01/08/13 17:01	1
1,1-Dichloroethene	ND	4.7	0.55	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,2-Dichloropropane	ND	4.7	0.51	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,4-Dioxane	ND	470	52	ug/Kg		01/08/13 11:07	01/08/13 17:01	1
Ethylbenzene	ND	4.7	0.62	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
2-Hexanone	ND	19	4.6	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
Isopropylbenzene	ND	4.7	0.55	ug/Kg		01/08/13 11:07	01/08/13 17:01	1
Methyl acetate	ND	9.3	2.6	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
Methylcyclohexane	ND	4.7	0.39	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
Methylene Chloride	ND	4.7	1.5	ug/Kg	₩.	01/08/13 11:07	01/08/13 17:01	1
4-Methyl-2-pentanone (MIBK)	ND	19	4.1	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
Methyl tert-butyl ether	ND	19	0.32	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1

Client: CDM Smith, Inc.

Trichloroethene

Vinyl chloride

Trichlorofluoromethane

1,1,2-Trichlorotrifluoroethane

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND

ND

ND

ND

Client Sample ID: 0113-SB4-5CEN-SO Lab Sample ID: 280-37602-6 Date Collected: 01/06/13 16:10 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 93.5 RL MDL Unit D Analyte Result Qualifier Prepared Analyzed Dil Fac 2.3 01/08/13 11:07 m-Xylene & p-Xylene ND 0.97 ug/Kg 01/08/13 17:01 ₽ 01/08/13 11:07 ND 23 01/08/13 17:01 o-Xylene 0.57 ug/Kg ä Styrene ND 4.7 0.59 ug/Kg 01/08/13 11:07 01/08/13 17:01 ₽ 1,1,2,2-Tetrachloroethane ND 4.7 0.57 01/08/13 11:07 01/08/13 17:01 ug/Kg Tetrachloroethene ND 4.7 0.55 ug/Kg 01/08/13 11:07 01/08/13 17:01 ₽ 01/08/13 11:07 Toluene ND 47 0.64 ug/Kg 01/08/13 17:01 ₽ trans-1,2-Dichloroethene ND 2.3 0.36 ug/Kg 01/08/13 11:07 01/08/13 17:01 ND 4.7 01/08/13 11:07 trans-1.3-Dichloropropene 0.62 ug/Kg 01/08/13 17:01 ä 1,2,3-Trichlorobenzene ND 4.7 0.70 ug/Kg 01/08/13 11:07 01/08/13 17:01 ₽ 1,2,4-Trichlorobenzene ND 4.7 0.68 ug/Kg 01/08/13 11:07 01/08/13 17:01 ŭ 1,1,1-Trichloroethane ND 4.7 0.48 ug/Kg 01/08/13 11:07 01/08/13 17:01 ₽ 01/08/13 11:07 1,1,2-Trichloroethane ND 4.7 0.82 ug/Kg 01/08/13 17:01

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	76 - 127	01/08/13 11:07	01/08/13 17:01	1
Dibromofluoromethane (Surr)	95	75 - 121	01/08/13 11:07	01/08/13 17:01	1
1,2-Dichloroethane-d4 (Surr)	87	58 - 140	01/08/13 11:07	01/08/13 17:01	1
Toluene-d8 (Surr)	101	80 - 126	01/08/13 11:07	01/08/13 17:01	1

47

9.3

19

4.7

0.21

0.97

ug/Kg

ug/Kg

0.42 ug/Kg

1.2 ug/Kg

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

Client Sample ID: 0113-SB6-5CEN-SO Date Collected: 01/06/13 16:50 Date Received: 01/08/13 09:00 Lab Sample ID: 280-37602-7 Matrix: Solid

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

Percent Solids: 93.5

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac ₩ Acetone ND 18 4.8 ug/Kg 01/08/13 11:07 01/08/13 17:20 Benzene ND 4.5 0.42 ug/Kg 01/08/13 11:07 01/08/13 17:20 Bromoform ND 4.5 0.21 ug/Kg 01/08/13 11:07 01/08/13 17:20 Bromomethane ND 9.0 0.45 01/08/13 11:07 01/08/13 17:20 ug/Kg 2-Butanone (MEK) ND 18 01/08/13 11:07 01/08/13 17:20 1.6 ug/Kg Carbon disulfide ND ug/Kg 01/08/13 11:07 4.5 0.38 01/08/13 17:20 Carbon tetrachloride ND 4.5 01/08/13 11:07 01/08/13 17:20 0.57 ug/Kg Chlorobenzene ND 4.5 0.49 ug/Kg 01/08/13 11:07 01/08/13 17:20 Chlorobromomethane ND 4.5 0.27 ug/Kg ₽ 01/08/13 11:07 01/08/13 17:20 Chlorodibromomethane ND 4.5 0.51 ug/Kg 01/08/13 11:07 01/08/13 17:20 ug/Kg ŭ Chloroethane ND 9.0 0.80 01/08/13 11:07 01/08/13 17:20 Chloroform ND 9.0 0.26 01/08/13 11:07 01/08/13 17:20 ug/Kg ₽ Chloromethane ND 9.0 0.69 ug/Kg 01/08/13 11:07 01/08/13 17:20 cis-1,2-Dichloroethene ND 2.2 01/08/13 11:07 01/08/13 17:20 0.50 ug/Kg ₩ cis-1,3-Dichloropropene ND 4.5 1.2 ug/Kg 01/08/13 11:07 01/08/13 17:20 ₫ Cyclohexane ND 4.5 0.36 ug/Kg 01/08/13 11:07 01/08/13 17:20 1,2-Dibromo-3-Chloropropane ND 9.0 01/08/13 11:07 01/08/13 17:20 0.54 ug/Kg 1,2-Dibromoethane ND 4.5 0.47 ug/Kg 01/08/13 11:07 01/08/13 17:20 ND 45 0.40 ug/Kg 01/08/13 11:07 01/08/13 17:20 1.2-Dichlorobenzene ND 4.5 01/08/13 11:07 01/08/13 17:20 1,3-Dichlorobenzene ug/Kg 0.70 ND 4.5 01/08/13 11:07 01/08/13 17:20 1.4-Dichlorobenzene ug/Kg ₫ Dichlorobromomethane ND 4.5 0.20 ug/Kg 01/08/13 11:07 01/08/13 17:20 Dichlorodifluoromethane ND 9 0 0.47 ug/Kg 01/08/13 11:07 01/08/13 17:20

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB6-5CEN-SO Lab Sample ID: 280-37602-7 Date Collected: 01/06/13 16:50 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 93.5 RL MDL Unit D Prepared Analyte Result Qualifier Analyzed Dil Fac ₩ 1,1-Dichloroethane 4.5 0.19 ug/Kg 01/08/13 11:07 01/08/13 17:20 ND 01/08/13 11:07 1,2-Dichloroethane ND 4.5 01/08/13 17:20 0.63 ug/Kg ₩ 1,1-Dichloroethene ND 4.5 0.53 ug/Kg 01/08/13 11:07 01/08/13 17:20 ND 4.5 0.49 ug/Kg 01/08/13 11:07 01/08/13 17:20 1,2-Dichloropropane ₩ 1,4-Dioxane ND 450 ug/Kg 01/08/13 11:07 01/08/13 17:20 ND 4.5 01/08/13 11:07 01/08/13 17:20 Ethylbenzene 0.60 ug/Kg ₽ 2-Hexanone ND 18 4.4 ug/Kg 01/08/13 11:07 01/08/13 17:20 Isopropylbenzene ND 4.5 01/08/13 11:07 01/08/13 17:20 0.53 ug/Kg Methyl acetate ND 9.0 2.5 ug/Kg 01/08/13 11:07 01/08/13 17:20 Methylcyclohexane ND 4.5 0.38 ug/Kg 01/08/13 11:07 01/08/13 17:20 Methylene Chloride ND 01/08/13 11:07 4.5 1.4 ug/Kg 01/08/13 17:20 ND 01/08/13 11:07 4-Methyl-2-pentanone (MIBK) 18 3.9 ug/Kg 01/08/13 17:20 Methyl tert-butyl ether ND 18 0.31 ug/Kg 01/08/13 11:07 01/08/13 17:20 m-Xylene & p-Xylene ND 2.2 0.94 ug/Kg 01/08/13 11:07 01/08/13 17:20 o-Xylene ND 22 0.55 01/08/13 11:07 01/08/13 17:20 ug/Kg Styrene ND 4.5 0.57 01/08/13 11:07 01/08/13 17:20 ug/Kg ND 4.5 01/08/13 11:07 1,1,2,2-Tetrachloroethane 0.55 ug/Kg 01/08/13 17:20 Tetrachloroethene ND 4.5 0.53 01/08/13 11:07 01/08/13 17:20 ug/Kg ND 4.5 01/08/13 11:07 01/08/13 17:20 Toluene 0.62 ug/Kg ₽ trans-1,2-Dichloroethene ND 2.2 0.35 ug/Kg 01/08/13 11:07 01/08/13 17:20 ug/Kg trans-1,3-Dichloropropene ND 4.5 0.60 01/08/13 11:07 01/08/13 17:20 ND 1,2,3-Trichlorobenzene 4.5 0.67 ug/Kg 01/08/13 11:07 01/08/13 17:20 1,2,4-Trichlorobenzene ND 4.5 0.66 ug/Kg 01/08/13 11:07 01/08/13 17:20 1,1,1-Trichloroethane ND 4.5 0.47 ug/Kg 01/08/13 11:07 01/08/13 17:20 1,1,2-Trichloroethane ND 4.5 0.79 ug/Kg 01/08/13 11:07 01/08/13 17:20 ND Trichloroethene 4.5 0.21 01/08/13 11:07 01/08/13 17:20 ug/Kg Trichlorofluoromethane ND 9.0 0.94 01/08/13 11:07 01/08/13 17:20 ug/Kg 1,1,2-Trichlorotrifluoroethane ND 18 0.40 ug/Kg 01/08/13 11:07 01/08/13 17:20 Vinyl chloride ND 4.5 01/08/13 11:07 01/08/13 17:20 1.2 ug/Kg

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103	76 - 127	01/08/13 11:07	01/08/13 17:20	1
Dibromofluoromethane (Surr)	94	75 - 121	01/08/13 11:07	01/08/13 17:20	1
1,2-Dichloroethane-d4 (Surr)	87	58 - 140	01/08/13 11:07	01/08/13 17:20	1
Toluene-d8 (Surr)	101	80 ₋ 126	01/08/13 11:07	01/08/13 17:20	1

Client Sample ID: 0113-SB5-5CEN-SO

Date Collected: 01/06/13 17:35

Date Received: 01/08/13 09:00

Date Received: 01/08/13 09:00							Percent Soli	ds: 93.9
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	17	4.5	ug/Kg	₩	01/08/13 11:26	01/08/13 19:57	1
Benzene	ND	4.2	0.40	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Bromoform	ND	4.2	0.19	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Bromomethane	ND	8.4	0.42	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
2-Butanone (MEK)	ND	17	1.5	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Carbon disulfide	ND	4.2	0.35	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Carbon tetrachloride	ND	4.2	0.53	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Chlorobenzene	ND	4.2	0.46	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Chlorobromomethane	ND	4.2	0.25	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Chlorodibromomethane	ND	4.2	0.48	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1

TestAmerica Denver

Lab Sample ID: 280-37602-8

Matrix: Solid

3

4

6

8

10

11 12

Client: CDM Smith, Inc.

Toluene

trans-1,2-Dichloroethene

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichlorofluoromethane

1,1,2-Trichlorotrifluoroethane

Trichloroethene

Vinyl chloride

trans-1,3-Dichloropropene

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-5CEN-SO Date Collected: 01/06/13 17:35 TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

Matrix: Solid

Matrix: 50110

Analyse Result Qualifier RL MDL Unit D Prepared Analyzed Diface Chlorocethane ND 8.4 0.75 ug/Kg 0 10/08/13 11:25 01/08/13 19:57 1 Chloromethane ND 8.4 0.65 ug/Kg 0 10/08/13 11:26 01/08/13 19:57 1 cis-1.2-Dichlororethene ND 2.1 0.47 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 cis-1.3-Dichloropropene ND 4.2 0.41 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 Cyclohexane ND 4.2 0.42 0.44 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.2-Dichloroberparene ND 4.2 0.44 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.2-Dichloroberparene ND 4.2 0.48 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.3-Dichloroberbarene ND	Date Received: 01/08/13 09:00							Percent Soli	ds: 93.9
Chloroform	Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane ND	Chloroethane	ND ND	8.4	0.75	ug/Kg	₩	01/08/13 11:26	01/08/13 19:57	1
cis-1,2-Dichloroethene ND 2.1 0.47 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 cis-1,3-Dichloropropene ND 4.2 1.1 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 Cyclohexane ND 4.2 0.34 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,2-Dibromoethane ND 4.2 0.44 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichlorobenzene ND 4.2 0.44 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichlorobenzene ND 4.2 0.44 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,4-Dichlorobromoethane ND 4.2 0.44 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,4-Dichlorobromoethane ND 4.2 0.49 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichlorobromoethane ND 4.2 <td>Chloroform</td> <td>ND</td> <td>8.4</td> <td>0.24</td> <td>ug/Kg</td> <td>₽</td> <td>01/08/13 11:26</td> <td>01/08/13 19:57</td> <td>1</td>	Chloroform	ND	8.4	0.24	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Cyclohexane ND 4.2 1.1 Uy/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1 1 1 1 1 1 1 1	Chloromethane	ND	8.4	0.65	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
Cyclohexane ND 4.2 0.34 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.2-Dibromo-9-Chloropropane ND 8.4 0.51 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.2-Dibromoethane ND 4.2 0.44 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.3-Dichlorobenzene ND 4.2 0.40 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.4-Dichlorobenzene ND 4.2 0.66 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.4-Dichlorobenzene ND 4.2 0.66 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.4-Dichlorobenzene ND 4.2 0.66 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.4-Dichlorobenzene ND 4.2 0.19 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.1-Dichlorobenzene ND 4.2	cis-1,2-Dichloroethene	ND	2.1	0.47	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1.2-Dibromo-3-Chloropropane ND 8.4 0.51 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.2-Dibromoethane ND 4.2 0.44 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.2-Dichlorobenzene ND 4.2 0.38 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.4-Dichlorobenzene ND 4.2 0.66 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1.4-Dichlorobenzene ND 4.2 0.66 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 Dichlorodifluoromethane ND 4.2 0.68 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichlorodhane ND 4.2 0.58 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichlorochane ND 4.2 0.59 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichlorochane ND 4.2	cis-1,3-Dichloropropene	ND	4.2	1.1	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1.2-Dibromoethane ND 4.2 0.44 ug/Kg © 10/08/13 11:26 01/08/13 19:57 1 1.2-Dichlorobenzene ND 4.2 0.38 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1.3-Dichlorobenzene ND 4.2 0.40 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1.4-Dichlorobenzene ND 4.2 0.66 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 Dichlorobromomethane ND 4.2 0.19 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 Dichlorobromomethane ND 4.2 0.19 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.18 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloroethane ND 4.2 0.59 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloroethane ND 4.2 0.59 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1	Cyclohexane	ND	4.2	0.34	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1,2-Dichlorobenzene ND 4.2 0.38 ug/Kg 0 0/108/13 11:26 01/08/13 19:57 1 1,3-Dichlorobenzene ND 4.2 0.40 ug/Kg 0 0/108/13 11:26 01/08/13 19:57 1 1,4-Dichlorobenzene ND 4.2 0.66 ug/Kg 0 0/108/13 11:26 01/08/13 19:57 1 Dichlorobromomethane ND 4.2 0.19 ug/Kg 0 1/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.18 ug/Kg 0 1/08/13 11:26 01/08/13 19:57 1 1,2-Dichloroethane ND 4.2 0.18 ug/Kg 0 1/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.59 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloropropane ND 4.2 0.59 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1 1,4-Dioxane ND 4.2 0.50 ug/Kg 0 01/08/13 11:26 01/08/13 19:57 1	1,2-Dibromo-3-Chloropropane	ND	8.4	0.51	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1,3-Dichlorobenzene ND 4.2 0.40 ug/Kg © 10/108/13 11:26 01/08/13 19:57 1 1,4-Dichlorobenzene ND 4.2 0.66 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 Dichlorobromomethane ND 4.2 0.19 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 Dichlorodifluoromethane ND 4.2 0.18 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.18 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloroethane ND 4.2 0.59 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloropthane ND 4.2 0.59 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloropthane ND 4.2 0.50 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloropthane ND 4.2 0.50 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1	1,2-Dibromoethane	ND	4.2	0.44	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1,4-Dichlorobenzene ND 4.2 0.66 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Dichlorobromomethane ND 4.2 0.19 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Dichlorodifluoromethane ND 8.4 0.44 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.18 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloroethane ND 4.2 0.59 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.59 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.59 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57<	1,2-Dichlorobenzene	ND	4.2	0.38	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
Dichlorobromomethane ND 4.2 0.19 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Dichlorodifluoromethane ND 8.4 0.44 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.18 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloroethane ND 4.2 0.59 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.59 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloropropane ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,4-Dioxane ND 4.2 0.57 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Ethylbenzene ND 4.2 0.57 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Left-warmene	1,3-Dichlorobenzene	ND	4.2	0.40	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Dichlorodifluoromethane ND 8.4 0.44 ug/Kg 01/08/13 11:26 01/08/13 19:57 1	1,4-Dichlorobenzene	ND	4.2	0.66	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1,1-Dichloroethane ND 4,2 0.18 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloroethane ND 4,2 0.59 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4,2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloropropane ND 4,2 0.46 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,4-Dioxane ND 420 47 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Ethylbenzene ND 42 0.57 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 2-Hexanone ND 17 4.1 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1 sopropylbenzene ND 14 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyla cetate ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylene Chloride ND 4.2<	Dichlorobromomethane	ND	4.2	0.19	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
1,2-Dichloroethane ND 4.2 0.59 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1-Dichloroethane ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,2-Dichloropropane ND 4.2 0.46 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,4-Dioxane ND 420 47 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Ethylbenzene ND 4.2 0.57 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 2-Hexanone ND 4.2 0.57 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Isopropylbenzene ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl acetate ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylcyclohexane ND 4.2 0.35 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK)	Dichlorodifluoromethane	ND	8.4	0.44	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1,1-Dichloroethene ND 4.2 0.50 ug/kg 0/08/13 11:26 01/08/13 19:57 1 1,2-Dichloropropane ND 4.2 0.46 ug/kg 0/08/13 11:26 01/08/13 19:57 1 1,4-Dioxane ND 420 47 ug/kg 0/08/13 11:26 01/08/13 19:57 1 Ethylbenzene ND 4.2 0.57 ug/kg 0/08/08/13 11:26 01/08/13 19:57 1 2-Hexanone ND 17 4.1 ug/kg 0/08/08/13 11:26 01/08/13 19:57 1 Leopropylbenzene ND 4.2 0.50 ug/kg 0/08/08/13 11:26 01/08/13 19:57 1 Methyl acetate ND 4.2 0.50 ug/kg 0/08/08/13 11:26 01/08/13 19:57 1 Methyl-gcylohexane ND 4.2 0.35 ug/kg 0/08/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/kg 0/08/08/13 11:26 01/08/13 19:57 1 m-Xylene & p-Xylene </td <td>1,1-Dichloroethane</td> <td>ND</td> <td>4.2</td> <td>0.18</td> <td>ug/Kg</td> <td>₽</td> <td>01/08/13 11:26</td> <td>01/08/13 19:57</td> <td>1</td>	1,1-Dichloroethane	ND	4.2	0.18	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1,2-Dichloropropane ND 4.2 0.46 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,4-Dioxane ND 420 47 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Ethylbenzene ND 4.2 0.57 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 2-Hexanone ND 17 4.1 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Isopropylbenzene ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl acetate ND 8.4 2.3 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyleyclohexane ND 4.2 0.35 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylene Chloride ND 4.2 1.3 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 m-Xylene & p-Xylene	1,2-Dichloroethane	ND	4.2	0.59	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
1,4-Dioxane ND 420 47 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Ethylbenzene ND 4.2 0.57 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 2-Hexanone ND 17 4.1 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Isopropylbenzene ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl acetate ND 8.4 2.3 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylcyclohexane ND 4.2 0.35 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylene Chloride ND 4.2 1.3 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl tert-butyl ether ND 17 0.29 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 o-Xylene ND </td <td>1,1-Dichloroethene</td> <td>ND</td> <td>4.2</td> <td>0.50</td> <td>ug/Kg</td> <td>₽</td> <td>01/08/13 11:26</td> <td>01/08/13 19:57</td> <td>1</td>	1,1-Dichloroethene	ND	4.2	0.50	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Ethylbenzene ND 4.2 0.57 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 2-Hexanone ND 17 4.1 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 Isopropylbenzene ND 4.2 0.50 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 Methyl acetate ND 8.4 2.3 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 Methylcyclohexane ND 4.2 0.35 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 Methylene Chloride ND 4.2 1.3 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 Methyl tert-butyl ether ND 17 0.29 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 m-Xylene & p-Xylene ND 2.1 0.8 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1 Sty	1,2-Dichloropropane	ND	4.2	0.46	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
2-Hexanone ND 17 4.1 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Isopropylbenzene ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl acetate ND 8.4 2.3 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylcyclohexane ND 4.2 0.35 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylene Chloride ND 4.2 1.3 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl tert-butyl ether ND 17 0.29 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 m-Xylene & p-Xylene ND 2.1 0.88 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 o-Xylene ND 2.1 0.81 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Styrene ND 4.2 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg 01/08/13	1,4-Dioxane	ND	420	47	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Sopropylbenzene ND 4.2 0.50 ug/Kg 01/08/13 11:26 01/08/13 19:57 1	Ethylbenzene	ND	4.2	0.57	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Methyl acetate ND 8.4 2.3 ug/Kg O1/08/13 11:26 01/08/13 19:57 1 Methylcyclohexane ND 4.2 0.35 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylene Chloride ND 4.2 1.3 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl tert-butyl ether ND 17 0.29 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 m-Xylene & p-Xylene ND 2.1 0.88 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 o-Xylene ND 2.1 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Styrene ND 4.2 0.53 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1	2-Hexanone	ND	17	4.1	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Methylcyclohexane ND 4.2 0.35 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methylene Chloride ND 4.2 1.3 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl tert-butyl ether ND 17 0.29 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 m-Xylene & p-Xylene ND 2.1 0.88 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 o-Xylene ND 2.1 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Styrene ND 4.2 0.53 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1	Isopropylbenzene	ND	4.2	0.50	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
Methylene Chloride ND 4.2 1.3 ug/Kg O1/08/13 11:26 01/08/13 19:57 1 4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Methyl tert-butyl ether ND 17 0.29 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 m-Xylene & p-Xylene ND 2.1 0.88 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 o-Xylene ND 2.1 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Styrene ND 4.2 0.53 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1	Methyl acetate	ND	8.4	2.3	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
4-Methyl-2-pentanone (MIBK) ND 17 3.7 ug/Kg 01/08/13 11:26 ug/Kg 01/08/13 11:26 ug/Kg 11:26 ug/Kg 01/08/13 11:	Methylcyclohexane	ND	4.2	0.35	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Methyl tert-butyl ether ND 17 0.29 ug/Kg ug/Kg 01/08/13 11:26 01/08/13 19:57 1 m-Xylene & p-Xylene ND 2.1 0.88 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 o-Xylene ND 2.1 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Styrene ND 4.2 0.53 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1	Methylene Chloride	ND	4.2	1.3	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
m-Xylene & p-Xylene ND 2.1 0.88 ug/Kg O1/08/13 11:26 01/08/13 19:57 1 o-Xylene ND 2.1 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 Styrene ND 4.2 0.53 ug/Kg 01/08/13 11:26 01/08/13 19:57 1 1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg 01/08/13 11:26 01/08/13 19:57 1	4-Methyl-2-pentanone (MIBK)	ND	17	3.7	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
o-Xylene ND 2.1 0.51 ug/Kg ** 01/08/13 11:26 01/08/13 19:57 1 Styrene ND 4.2 0.53 ug/Kg ** 01/08/13 11:26 01/08/13 19:57 1 1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg ** 01/08/13 11:26 01/08/13 19:57 1	Methyl tert-butyl ether	ND	17	0.29	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Styrene ND 4.2 0.53 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1 1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1	m-Xylene & p-Xylene	ND	2.1	0.88	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
1,1,2,2-Tetrachloroethane ND 4.2 0.51 ug/Kg * 01/08/13 11:26 01/08/13 19:57 1	o-Xylene	ND	2.1	0.51	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
	Styrene	ND	4.2	0.53	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Tetrachloroethene ND 4.2 0.50 ug/Kg © 01/08/13 11:26 01/08/13 19:57 1	1,1,2,2-Tetrachloroethane	ND	4.2	0.51	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
	Tetrachloroethene	ND	4.2	0.50	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		76 - 127	01/08/13 11:26	01/08/13 19:57	1
Dibromofluoromethane (Surr)	95		75 - 121	01/08/13 11:26	01/08/13 19:57	1
1,2-Dichloroethane-d4 (Surr)	88		58 - 140	01/08/13 11:26	01/08/13 19:57	1
Toluene-d8 (Surr)	104		80 - 126	01/08/13 11:26	01/08/13 19:57	1

4.2

2.1

4.2

4.2

4.2

4.2

4.2

4.2

8.4

17

4.2

0.58 ug/Kg

0.33 ug/Kg

0.57 ug/Kg

0.63 ug/Kg

0.62 ug/Kg

0.44 ug/Kg

0.74 ug/Kg

0.19 ug/Kg

0.88 ug/Kg

0.38 ug/Kg

1.1 ug/Kg

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

01/08/13 19:57

TestAmerica Denver

3

4

6

8

10

11

13

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: 0113-SB6-2051ST-SO Lab Sample ID: 280-37602-9 Date Collected: 01/06/13 12:55 Matrix: Solid

		MDI	11-14	_		Matrix: Sol Percent Solids: 94	
					<u>.</u>		Dil Fa
	4.2			*	01/08/13 11:26	01/08/13 20:17	
ND	4.2			₩	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.42	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	17	1.6	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.36	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.53	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.46	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.25	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.48	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.75	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.25	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.65	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	2.1	0.47	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	1.1	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.34	ug/Kg	\$	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.51	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.44	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2				01/08/13 11:26	01/08/13 20:17	
ND	4.2			₩	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.66	ua/Ka	₽	01/08/13 11:26	01/08/13 20:17	
				.			
				₽			
				₩			
				₩			
				₩			
				.			
					01/08/13 11:26	01/08/13 20:17	
ND	4.2						
ND	4.2			\$	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.75	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND 17 ND 4.2 ND 4.2 ND 4.2 ND 17 ND 4.2 ND 4.2 ND 4.2 ND 4.2 ND 8.5 ND 8.5 ND 4.2 N	ND	ND	ND	ND	Result Qualifier RL

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB6-2051ST-SO		Lab Sample ID: 280-37602-9							
Date Collected: 01/06/13 12:55									x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 94.7
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		8.5	0.88	ug/Kg		01/08/13 11:26	01/08/13 20:17	1
1,1,2-Trichlorotrifluoroethane	ND		17	0.38	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	1
Vinyl chloride	ND		4.2	1.1	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		76 - 127	01/08/13 11:26	01/08/13 20:17		
Dibromofluoromethane (Surr)	96		75 ₋ 121	01/08/13 11:26	01/08/13 20:17	1	
1,2-Dichloroethane-d4 (Surr)	89		58 ₋ 140	01/08/13 11:26	01/08/13 20:17	1	
Toluene-d8 (Surr)	103		80 - 126	01/08/13 11:26	01/08/13 20:17	1	

Client Sample ID: 0113-SB5-2051ST-SO Lab Sample ID: 280-37602-10

Date Received: 01/08/13 09:00							Percent Soli	
Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	19	5.1	ug/Kg	\$	01/08/13 11:26	01/08/13 20:36	
Benzene	ND	4.7	0.44	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	•
Bromoform	ND	4.7	0.22	ug/Kg	≎	01/08/13 11:26	01/08/13 20:36	
Bromomethane	ND	9.5	0.47	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
2-Butanone (MEK)	ND	19	1.7	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	•
Carbon disulfide	ND	4.7	0.40	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
Carbon tetrachloride	ND	4.7	0.60	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
Chlorobenzene	ND	4.7	0.51	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	•
Chlorobromomethane	ND	4.7	0.28	ug/Kg	☼	01/08/13 11:26	01/08/13 20:36	
Chlorodibromomethane	ND	4.7	0.54	ug/Kg	\$	01/08/13 11:26	01/08/13 20:36	,
Chloroethane	ND	9.5	0.84	ug/Kg	☼	01/08/13 11:26	01/08/13 20:36	•
Chloroform	ND	9.5	0.27	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	•
Chloromethane	ND	9.5	0.73	ug/Kg	\$	01/08/13 11:26	01/08/13 20:36	· · · · · · · · ·
cis-1,2-Dichloroethene	ND	2.4	0.53	ug/Kg	☼	01/08/13 11:26	01/08/13 20:36	
cis-1,3-Dichloropropene	ND	4.7	1.2	ug/Kg	☼	01/08/13 11:26	01/08/13 20:36	
Cyclohexane	ND	4.7	0.38	ug/Kg		01/08/13 11:26	01/08/13 20:36	,
1,2-Dibromo-3-Chloropropane	ND	9.5	0.57	ug/Kg	☼	01/08/13 11:26	01/08/13 20:36	
1,2-Dibromoethane	ND	4.7	0.49	ug/Kg	☼	01/08/13 11:26	01/08/13 20:36	
1,2-Dichlorobenzene	ND	4.7	0.43	ug/Kg		01/08/13 11:26	01/08/13 20:36	
1,3-Dichlorobenzene	ND	4.7	0.45	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
1,4-Dichlorobenzene	ND	4.7	0.74	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
Dichlorobromomethane	ND	4.7	0.21	ug/Kg		01/08/13 11:26	01/08/13 20:36	
Dichlorodifluoromethane	ND	9.5	0.49	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
1,1-Dichloroethane	ND	4.7	0.20	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
1,2-Dichloroethane	ND	4.7	0.66	ug/Kg		01/08/13 11:26	01/08/13 20:36	
1,1-Dichloroethene	ND	4.7	0.56	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
1,2-Dichloropropane	ND	4.7	0.52	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
1,4-Dioxane	ND	470	53	ug/Kg		01/08/13 11:26	01/08/13 20:36	· · · · · · · · ·
Ethylbenzene	ND	4.7	0.63	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
2-Hexanone	ND	19	4.6	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
Isopropylbenzene	ND	4.7	0.56	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
Methyl acetate	ND	9.5	2.6	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
Methylcyclohexane	ND	4.7	0.40	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	
Methylene Chloride	ND	4.7		ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	
4-Methyl-2-pentanone (MIBK)	ND	19	4.1		₩	01/08/13 11:26	01/08/13 20:36	
Methyl tert-butyl ether	ND	19		ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-2051ST-SO

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-10

Lab Sample ID: 280-37602-11

Matrix: Solid

Date Collected: 01/06/13 13:30								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.6
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.4	0.98	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
o-Xylene	ND		2.4	0.58	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Styrene	ND		4.7	0.60	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.58	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Tetrachloroethene	ND		4.7	0.56	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Toluene	ND		4.7	0.65	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
trans-1,2-Dichloroethene	ND		2.4	0.37	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
trans-1,3-Dichloropropene	ND		4.7	0.63	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2,3-Trichlorobenzene	ND		4.7	0.71	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2,4-Trichlorobenzene	ND		4.7	0.69	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1,1-Trichloroethane	ND		4.7	0.49	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1,2-Trichloroethane	ND		4.7	0.83	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Trichloroethene	ND		4.7	0.22	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Trichlorofluoromethane	ND		9.5	0.98	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1,2-Trichlorotrifluoroethane	ND		19	0.43	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Vinyl chloride	ND		4.7	1.3	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Surrogato	% Possyony	Qualifier	Limite				Propared	Analyzod	Dil Eso

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 127	0	01/08/13 11:26	01/08/13 20:36	1
Dibromofluoromethane (Surr)	95		75 - 121	0	01/08/13 11:26	01/08/13 20:36	1
1,2-Dichloroethane-d4 (Surr)	90		58 - 140	0	1/08/13 11:26	01/08/13 20:36	1
Toluene-d8 (Surr)	101		80 - 126	0	1/08/13 11:26	01/08/13 20:36	1

Client Sample ID: 0113-SB1-5CEN-SO

Date Collected: 01/06/13 14:15

Date Received: 01/08/13 09:00								Percent Soli	ds: 94.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		22	5.9	ug/Kg	\	01/08/13 11:26	01/09/13 01:11	1
Benzene	ND		5.4	0.51	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Bromoform	ND		5.4	0.25	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Bromomethane	ND		11	0.54	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
2-Butanone (MEK)	ND		22	2.0	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Carbon disulfide	ND		5.4	0.46	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Carbon tetrachloride	ND		5.4	0.69	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Chlorobenzene	ND		5.4	0.59	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Chlorobromomethane	ND		5.4	0.33	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Chlorodibromomethane	ND		5.4	0.62	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Chloroethane	ND		11	0.97	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Chloroform	ND		11	0.32	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Chloromethane	ND		11	0.84	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
cis-1,2-Dichloroethene	ND		2.7	0.61	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
cis-1,3-Dichloropropene	ND		5.4	1.4	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Cyclohexane	ND		5.4	0.44	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,2-Dibromo-3-Chloropropane	ND		11	0.65	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,2-Dibromoethane	ND		5.4	0.57	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
1,2-Dichlorobenzene	ND		5.4	0.49	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,3-Dichlorobenzene	ND		5.4	0.52	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
1,4-Dichlorobenzene	ND		5.4	0.85	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Dichlorobromomethane	ND		5.4	0.24	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Dichlorodifluoromethane	ND		11	0.57	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB1-5CEI Date Collected: 01/06/13 14:15	1-00					Lab 3	ample ID: 280-3 Matri	x: Solid
Date Received: 01/08/13 09:00							Percent Soli	
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	5.4	0.23	ug/Kg		01/08/13 11:26	01/09/13 01:11	1
1,2-Dichloroethane	ND	5.4	0.76	ug/Kg	-	01/08/13 11:26	01/09/13 01:11	1
1,1-Dichloroethene	ND	5.4	0.64	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
1,2-Dichloropropane	ND	5.4	0.60	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,4-Dioxane	ND	540	61	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Ethylbenzene	ND	5.4	0.73	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
2-Hexanone	ND	22	5.3	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Isopropylbenzene	ND	5.4	0.64	ug/Kg	\$	01/08/13 11:26	01/09/13 01:11	1
Methyl acetate	ND	11	3.0	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Methylcyclohexane	ND	5.4	0.46	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Methylene Chloride	2.9 J	5.4	1.7	ug/Kg	₩.	01/08/13 11:26	01/09/13 01:11	1
4-Methyl-2-pentanone (MIBK)	ND	22	4.8	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Methyl tert-butyl ether	ND	22	0.37	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
m-Xylene & p-Xylene	ND	2.7	1.1	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
o-Xylene	ND	2.7	0.66	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Styrene	ND	5.4	0.69	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,1,2,2-Tetrachloroethane	ND	5.4	0.66	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Tetrachloroethene	ND	5.4	0.64	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Toluene	ND	5.4	0.75	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
trans-1,2-Dichloroethene	ND	2.7	0.42	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
trans-1,3-Dichloropropene	ND	5.4	0.73	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,2,3-Trichlorobenzene	ND	5.4	0.82	ug/Kg	≎	01/08/13 11:26	01/09/13 01:11	1
1,2,4-Trichlorobenzene	ND	5.4	0.80	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,1,1-Trichloroethane	ND	5.4	0.57	ug/Kg	≎	01/08/13 11:26	01/09/13 01:11	1
1,1,2-Trichloroethane	ND	5.4	0.96	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Trichloroethene	ND	5.4	0.25	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Trichlorofluoromethane	ND	11	1.1	ug/Kg	☼	01/08/13 11:26	01/09/13 01:11	1
1,1,2-Trichlorotrifluoroethane	ND	22	0.49	ug/Kg	☼	01/08/13 11:26	01/09/13 01:11	1
Vinyl chloride	ND	5.4	1.5	ug/Kg	*	01/08/13 11:26	01/09/13 01:11	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92	76 - 127				01/08/13 11:26	01/09/13 01:11	1

Client Sample ID: 0113-SB2-5CEN-	so		Lab Sample ID: 280-37602-12	
Toluene-d8 (Surr)	100	80 - 126	01/08/13 11:26 01/09/13 01:11 1	
1,2-Dichloroethane-d4 (Surr)	84	58 - 140	01/08/13 11:26	
Dibromofluoromethane (Surr)	93	75 - 121	01/08/13 11:26	
4-bromonuorobenzene (Surr)	92	10 - 121	01/00/13 11.20 01/09/13 01.11 1	

Date Collected: 01/06/13 14:50

Date Received: 01/08/13 09:00							Percent Soli	ds: 93.6	
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		19	5.1	ug/Kg	<u> </u>	01/08/13 11:26	01/09/13 01:30	1
Benzene	ND		4.7	0.45	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Bromoform	ND		4.7	0.22	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Bromomethane	ND		9.5	0.47	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
2-Butanone (MEK)	ND		19	1.7	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Carbon disulfide	ND		4.7	0.40	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Carbon tetrachloride	ND		4.7	0.60	ug/Kg	\$	01/08/13 11:26	01/09/13 01:30	1
Chlorobenzene	ND		4.7	0.51	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Chlorobromomethane	ND		4.7	0.28	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Chlorodibromomethane	ND		4.7	0.54	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1

TestAmerica Denver

Matrix: Solid

Page 25 of 76

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB2-5CEN-SO

Date Collected: 01/06/13 14:50

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-37602-12

Matrix: Solid

Date Received: 01/08/13 09:00 Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Percent Solid Analyzed	ds: 93.6 Dil Fac
Chloroethane	ND	9.5	0.84	ug/Kg	\	01/08/13 11:26	01/09/13 01:30	
Chloroform	ND	9.5	0.27	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	•
Chloromethane	ND	9.5	0.73	ug/Kg	₩.	01/08/13 11:26	01/09/13 01:30	,
cis-1,2-Dichloroethene	ND	2.4	0.53	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
cis-1,3-Dichloropropene	ND	4.7	1.2	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Cyclohexane	ND	4.7	0.38	ug/Kg	₩.	01/08/13 11:26	01/09/13 01:30	,
1,2-Dibromo-3-Chloropropane	ND	9.5	0.57	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,2-Dibromoethane	ND	4.7	0.49	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,2-Dichlorobenzene	ND	4.7	0.43	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	
1,3-Dichlorobenzene	ND	4.7	0.45	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,4-Dichlorobenzene	ND	4.7	0.74	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Dichlorobromomethane	ND	4.7	0.21	ug/Kg		01/08/13 11:26	01/09/13 01:30	,
Dichlorodifluoromethane	ND	9.5	0.49	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,1-Dichloroethane	ND	4.7	0.20	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,2-Dichloroethane	ND	4.7	0.66	ug/Kg		01/08/13 11:26	01/09/13 01:30	,
1,1-Dichloroethene	ND	4.7	0.56	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,2-Dichloropropane	ND	4.7	0.52	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,4-Dioxane	ND	470	53	ug/Kg	\$	01/08/13 11:26	01/09/13 01:30	
Ethylbenzene	ND	4.7	0.63	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
2-Hexanone	ND	19	4.6	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Isopropylbenzene	ND	4.7	0.56	ug/Kg		01/08/13 11:26	01/09/13 01:30	· · · · · · · ·
Methyl acetate	ND	9.5	2.6	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Methylcyclohexane	ND	4.7	0.40	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Methylene Chloride	ND	4.7	1.5	ug/Kg		01/08/13 11:26	01/09/13 01:30	
4-Methyl-2-pentanone (MIBK)	ND	19	4.1	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	
Methyl tert-butyl ether	ND	19	0.32	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
m-Xylene & p-Xylene	ND	2.4	0.98	ug/Kg	φ.	01/08/13 11:26	01/09/13 01:30	
o-Xylene	ND	2.4	0.58	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Styrene	ND	4.7	0.60	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,1,2,2-Tetrachloroethane	ND	4.7	0.58	ug/Kg		01/08/13 11:26	01/09/13 01:30	,
Tetrachloroethene	ND	4.7	0.56	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Toluene	ND	4.7	0.65	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
trans-1,2-Dichloroethene	ND	2.4	0.37	ug/Kg		01/08/13 11:26	01/09/13 01:30	
trans-1,3-Dichloropropene	ND	4.7	0.63	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,2,3-Trichlorobenzene	ND	4.7	0.71	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	
1,2,4-Trichlorobenzene	ND	4.7	0.69	ug/Kg		01/08/13 11:26	01/09/13 01:30	
1,1,1-Trichloroethane	ND	4.7	0.49	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
1,1,2-Trichloroethane	ND	4.7		ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Trichloroethene	ND	4.7	0.22	ug/Kg	φ.	01/08/13 11:26	01/09/13 01:30	
Trichlorofluoromethane	ND	9.5	0.98	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	
1,1,2-Trichlorotrifluoroethane	ND	19	0.43	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	
Vinyl chloride	ND	4.7		ug/Kg	φ	01/08/13 11:26	01/09/13 01:30	,

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		76 - 127	01/08/13 11:26	01/09/13 01:30	1
Dibromofluoromethane (Surr)	97		75 - 121	01/08/13 11:26	01/09/13 01:30	1
1,2-Dichloroethane-d4 (Surr)	88		58 - 140	01/08/13 11:26	01/09/13 01:30	1
Toluene-d8 (Surr)	101		80 - 126	01/08/13 11:26	01/09/13 01:30	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: 0113-SB1-2051ST-SO	Lab Sample ID: 280-37602-1
Date Collected: 01/06/13 09:30	Matrix: Solid
Date Received: 01/08/13 09:00	Percent Solids: 93.5

Date Neceived. 01/00/13 03.00								i ercent oon	us. 33.0
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1700	55	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	- 5
Acenaphthylene	ND		1700	90	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Anthracene	ND		1700	90	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Benzo[a]anthracene	ND		1700	110	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	
Benzo[a]pyrene	ND		1700	110	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Benzo[b]fluoranthene	ND		1700	140	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	Ę
Benzo[g,h,i]perylene	ND		1700	85	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	
Benzo[k]fluoranthene	ND		1700	210	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
Chrysene	ND		1700	140	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	Ę
Dibenz(a,h)anthracene	ND		1700	100	ug/Kg	\$	01/08/13 14:30	01/09/13 10:39	
Fluoranthene	ND		1700	190	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	Ę
Fluorene	ND		1700	95	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	Ę
Indeno[1,2,3-cd]pyrene	ND		1700	120	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	
1-Methylnaphthalene	ND		1700	59	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	Ę
2-Methylnaphthalene	ND		1700	100	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Naphthalene	ND		1700	160	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	
Phenanthrene	93	J	1700	90	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	Ę
Pyrene	130	J	1700	64	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	Ę

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86	D	50 - 120	01/08/13 14:30	01/09/13 10:39	5
Nitrobenzene-d5	76	D	50 - 120	01/08/13 14:30	01/09/13 10:39	5
Terphenyl-d14	89	D	55 ₋ 120	01/08/13 14:30	01/09/13 10:39	5

Client Sample ID: 0113-SB2-2051ST-SO

Lab Sample ID: 280-37602-2

Date Collected: 01/06/13 10:25

Matrix: Solid

Date Collected: 01/06/13 10:25

Date Received: 01/08/13 09:00

Percent Solids:

Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1800	55	ug/Kg		01/08/13 14:30	01/09/13 11:00	5
Acenaphthylene	ND		1800	91	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Anthracene	ND		1800	91	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Benzo[a]anthracene	150	J	1800	110	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Benzo[a]pyrene	130	J	1800	110	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Benzo[b]fluoranthene	270	J K	1800	140	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Benzo[g,h,i]perylene	85	J	1800	85	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Benzo[k]fluoranthene	ND	K	1800	210	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Chrysene	150	J	1800	140	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Dibenz(a,h)anthracene	ND		1800	100	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Fluoranthene	230	J	1800	190	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Fluorene	ND		1800	96	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Indeno[1,2,3-cd]pyrene	ND		1800	120	ug/Kg	\$	01/08/13 14:30	01/09/13 11:00	5
1-Methylnaphthalene	ND		1800	60	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
2-Methylnaphthalene	ND		1800	100	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Naphthalene	ND		1800	170	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Phenanthrene	100	J	1800	91	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Pyrene	230	J	1800	64	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Survey and to	0/ D anassams	Ovelifier	l imita				Duamawad	Amalumad	Dil 5

Surrogate	%Recovery	Qualifier	Limits	Prepare	d	Analyzed	Dil Fac
2-Fluorobiphenyl	83	D	50 - 120	01/08/13 14	4:30	01/09/13 11:00	5
Nitrobenzene-d5	74	D	50 - 120	01/08/13 1	4:30	01/09/13 11:00	5

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB2-2051ST-SO

Date Collected: 01/06/13 10:25 Date Received: 01/08/13 09:00

Lab Sample ID: 280-37602-2 **Matrix: Solid**

Percent Solids: 92.3

Surrogate %Recovery Qualifier Limits Prepared Analyzed Terphenyl-d14 88 D 55 - 120 01/08/13 14:30 01/09/13 11:00

Client Sample ID: 0113-SB3-2051ST-SO Lab Sample ID: 280-37602-3

Date Collected: 01/06/13 11:20 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 87.9

Date (1000) (00)								1 0100111 0011	ac. cc
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1800	58	ug/Kg	*	01/08/13 14:30	01/09/13 11:20	5
Acenaphthylene	140	J	1800	95	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Anthracene	250	J	1800	95	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Benzo[a]anthracene	1000	J	1800	110	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
Benzo[a]pyrene	1000	J	1800	110	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Benzo[b]fluoranthene	1500	JK	1800	150	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Benzo[g,h,i]perylene	660	J	1800	89	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
Benzo[k]fluoranthene	ND	K	1800	220	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Chrysene	1000	J	1800	150	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Dibenz(a,h)anthracene	180	J	1800	110	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
Fluoranthene	2200		1800	200	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Fluorene	ND		1800	100	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Indeno[1,2,3-cd]pyrene	530	J	1800	120	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
1-Methylnaphthalene	ND		1800	63	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
2-Methylnaphthalene	ND		1800	110	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Naphthalene	ND		1800	170	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
Phenanthrene	1100	J	1800	95	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Pyrene	2500		1800	68	ug/Kg	₩	01/08/13 14:30	01/09/13 11:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78	D	50 - 120	01/08/13 14:30	01/09/13 11:20	5
Nitrobenzene-d5	71	D	50 - 120	01/08/13 14:30	01/09/13 11:20	5
Terphenyl-d14	89	D	55 ₋ 120	01/08/13 14:30	01/09/13 11:20	5

Lab Sample ID: 280-37602-4 Client Sample ID: 0113-SB4-2051ST-SO Date Collected: 01/06/13 12:15 **Matrix: Solid**

Date Received: 01/08/13 09:00

Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3300	100	ug/Kg	*	01/08/13 14:30	01/09/13 11:41	10
Acenaphthylene	ND		3300	170	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Anthracene	ND		3300	170	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Benzo[a]anthracene	ND		3300	200	ug/Kg	\$	01/08/13 14:30	01/09/13 11:41	10
Benzo[a]pyrene	ND		3300	200	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Benzo[b]fluoranthene	ND		3300	260	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Benzo[g,h,i]perylene	ND		3300	160	ug/Kg	₽	01/08/13 14:30	01/09/13 11:41	10
Benzo[k]fluoranthene	ND		3300	400	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Chrysene	ND		3300	270	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Dibenz(a,h)anthracene	ND		3300	190	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Fluoranthene	ND		3300	360	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Fluorene	ND		3300	180	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Indeno[1,2,3-cd]pyrene	ND		3300	220	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
1-Methylnaphthalene	ND		3300	110	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
2-Methylnaphthalene	ND		3300	190	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Naphthalene	ND		3300	310	ug/Kg		01/08/13 14:30	01/09/13 11:41	10

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB4-2051ST-SO

Date Collected: 01/06/13 12:15

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-4

Matrix: Solid

Date Received: 01/08/13 09:00								Percent Sol	ds: 95.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		3300	170	ug/Kg	*	01/08/13 14:30	01/09/13 11:41	10
Pyrene	ND		3300	120	ug/Kg	₽	01/08/13 14:30	01/09/13 11:41	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85	D	50 - 120	01/08/13 14:30	01/09/13 11:41	10
Nitrobenzene-d5	78	D	50 - 120	01/08/13 14:30	01/09/13 11:41	10
Terphenyl-d14	92	D	55 ₋ 120	01/08/13 14:30	01/09/13 11:41	10

Lab Sample ID: 280-37602-5 Client Sample ID: 0113-SB3-5CEN-SO

Date Collected: 01/06/13 15:35 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 92.2

Date Neceived. 01/00/13 03.00	U							reiteilt 3011	us. 32.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		340	11	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Acenaphthylene	ND		340	18	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Anthracene	ND		340	18	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Benzo[a]anthracene	ND		340	21	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Benzo[a]pyrene	ND		340	21	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Benzo[b]fluoranthene	ND		340	27	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Benzo[g,h,i]perylene	ND		340	16	ug/Kg	\$	01/08/13 14:30	01/09/13 12:22	1
Benzo[k]fluoranthene	ND		340	41	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Chrysene	ND		340	28	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Dibenz(a,h)anthracene	ND		340	20	ug/Kg	\$	01/08/13 14:30	01/09/13 12:22	1
Fluoranthene	ND		340	37	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Fluorene	ND		340	19	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Indeno[1,2,3-cd]pyrene	ND		340	23	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
1-Methylnaphthalene	ND		340	12	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
2-Methylnaphthalene	ND		340	20	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Naphthalene	ND		340	32	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Phenanthrene	ND		340	18	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Pyrene	ND		340	12	ug/Kg	≎	01/08/13 14:30	01/09/13 12:22	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	2-Fluorobiphenyl	71		50 - 120	01/08/13 14:30	01/09/13 12:22	1
	Nitrobenzene-d5	77		50 - 120	01/08/13 14:30	01/09/13 12:22	1
ı	Terphenyl-d14	82		55 - 120	01/08/13 14:30	01/09/13 12:22	1

Client Sample ID: 0113-SB4-5CEN-SO Lab Sample ID: 280-37602-6 **Matrix: Solid**

Date Collected: 01/06/13 16:10 Date Received: 01/08/13 09:00

Percent Solids: 93.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		350	11	ug/Kg	*	01/08/13 14:30	01/09/13 13:24	1
Acenaphthylene	ND		350	18	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Anthracene	ND		350	18	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Benzo[a]anthracene	ND		350	21	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Benzo[a]pyrene	ND		350	21	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Benzo[b]fluoranthene	ND		350	28	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Benzo[g,h,i]perylene	ND		350	17	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Benzo[k]fluoranthene	ND		350	42	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Chrysene	ND		350	28	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Dibenz(a,h)anthracene	ND		350	20	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1

Client: CDM Smith, Inc.

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Client Sample ID: 0113-SB4-5CEI Date Collected: 01/06/13 16:10	N-SO						Lab S	Sample ID: 280- Matri	37602-6 x: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		350	38	ug/Kg	<u> </u>	01/08/13 14:30	01/09/13 13:24	1
Fluorene	ND		350	19	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Indeno[1,2,3-cd]pyrene	ND		350	23	ug/Kg	\$	01/08/13 14:30	01/09/13 13:24	1
1-Methylnaphthalene	ND		350	12	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
2-Methylnaphthalene	ND		350	20	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Naphthalene	ND		350	33	ug/Kg		01/08/13 14:30	01/09/13 13:24	1
Phenanthrene	ND		350	18	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Pyrene	ND		350	13	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		50 - 120				01/08/13 14:30	01/09/13 13:24	1
Nitrobenzene-d5	73		50 - 120				01/08/13 14:30	01/09/13 13:24	1
Terphenyl-d14	84		55 - 120				01/08/13 14:30	01/09/13 13:24	1

Client Sample ID: 0113-SB6-5CEN-SO Lab Sample ID: 280-37602-7 Date Collected: 01/06/13 16:50 **Matrix: Solid**

Percent Solids: 93.5

Date Received: 01/08/13 09:00 Result Qualifier Analyte RLMDL Unit D Prepared Analyzed Dil Fac Acenaphthene ND 350 11 ug/Kg 01/08/13 14:30 01/09/13 13:45 ND 350 ug/Kg Acenaphthylene 01/08/13 14:30 01/09/13 13:45 18 ₩ Anthracene ND 350 ug/Kg 01/08/13 14:30 01/09/13 13:45 Benzo[a]anthracene ND 350 21 ug/Kg 01/08/13 14:30 01/09/13 13:45 Benzo[a]pyrene ND 350 ug/Kg 01/08/13 14:30 01/09/13 13:45 350 01/08/13 14:30 01/09/13 13:45 Benzo[b]fluoranthene ug/Kg 29 28 J K ₽ 350 01/08/13 14:30 Benzo[g,h,i]perylene ND 17 ug/Kg 01/09/13 13:45 Benzo[k]fluoranthene ND K 350 43 ug/Kg 01/08/13 14:30 01/09/13 13:45 ND 350 Chrysene 29 ug/Kg 01/08/13 14:30 01/09/13 13:45 Dibenz(a,h)anthracene ND 350 20 ug/Kg 01/08/13 14:30 01/09/13 13:45 Fluoranthene ND 350 38 ug/Kg 01/08/13 14:30 01/09/13 13:45 Fluorene ND 350 19 ug/Kg 01/08/13 14:30 01/09/13 13:45 350 01/08/13 14:30 Indeno[1,2,3-cd]pyrene ND 01/09/13 13:45 23 ug/Kg 1-Methylnaphthalene ND 350 01/08/13 14:30 01/09/13 13:45 12 ug/Kg 2-Methylnaphthalene ND 350 01/08/13 14:30 01/09/13 13:45 ug/Kg 20 ₩ Naphthalene ND 350 ug/Kg 01/08/13 14:30 01/09/13 13:45 350 18 ug/Kg 01/08/13 14:30 01/09/13 13:45 **Phenanthrene** 23 J **Pyrene** 33 J 350 13 ug/Kg 01/08/13 14:30 01/09/13 13:45

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		50 - 120	0	1/08/13 14:30	01/09/13 13:45	1
Nitrobenzene-d5	77		50 - 120	0	1/08/13 14:30	01/09/13 13:45	1
Terphenyl-d14	85		55 - 120	0	1/08/13 14:30	01/09/13 13:45	1

Client Sample ID: 0113-SB5-5CEN-SO Date Collected: 01/06/13 17:35

Lab Sample ID: 280-37602-8 **Matrix: Solid**

Percent Solids: 93.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		330	10	ug/Kg	*	01/08/13 14:30	01/09/13 14:06	1
Acenaphthylene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Anthracene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Benzofalanthracene	ND		330	20	ua/Ka		01/08/13 14:30	01/09/13 14:06	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-5CEN-SO

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

75

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-8

Date Collected: 01/06/13 17:35								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		330	20	ug/Kg	₩	01/08/13 14:30	01/09/13 14:06	1
Benzo[b]fluoranthene	ND		330	26	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Benzo[g,h,i]perylene	ND		330	16	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Benzo[k]fluoranthene	ND		330	40	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Chrysene	ND		330	27	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Dibenz(a,h)anthracene	ND		330	19	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Fluoranthene	ND		330	36	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Fluorene	ND		330	18	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Indeno[1,2,3-cd]pyrene	ND		330	22	ug/Kg	\$	01/08/13 14:30	01/09/13 14:06	1
1-Methylnaphthalene	ND		330	11	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
2-Methylnaphthalene	ND		330	19	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Naphthalene	ND		330	31	ug/Kg	\$	01/08/13 14:30	01/09/13 14:06	1
Phenanthrene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Pyrene	ND		330	12	ug/Kg	₩	01/08/13 14:30	01/09/13 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Nitrobenzene-d5 79 50 - 120 01/08/13 14:30 01/09/13 14:06 Terphenyl-d14 85 55 - 120 01/08/13 14:30 01/09/13 14:06 Client Sample ID: 0113-SB6-2051ST-SO Lab Sample ID: 280-37602-9

50 - 120

Date Collected: 01/06/13 12:55

2-Fluorobiphenyl

Matrix: Solid

01/09/13 14:06

01/08/13 14:30

Date Received: 01/08/13 09:00								Percent Soli	ds: 94.7
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1600	51	ug/Kg	\$	01/08/13 14:30	01/09/13 12:02	5
Acenaphthylene	ND		1600	83	ug/Kg	₽	01/08/13 14:30	01/09/13 12:02	5
Anthracene	ND		1600	83	ug/Kg	₽	01/08/13 14:30	01/09/13 12:02	5
Benzo[a]anthracene	ND		1600	98	ug/Kg	₽	01/08/13 14:30	01/09/13 12:02	5
Benzo[a]pyrene	ND		1600	98	ug/Kg	₽	01/08/13 14:30	01/09/13 12:02	5
Benzo[b]fluoranthene	ND		1600	130	ug/Kg	₽	01/08/13 14:30	01/09/13 12:02	5
Benzo[g,h,i]perylene	ND		1600	78	ug/Kg	₽	01/08/13 14:30	01/09/13 12:02	5
Benzo[k]fluoranthene	ND		1600	200	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5
Chrysene	ND		1600	130	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5
Dibenz(a,h)anthracene	ND		1600	93	ug/Kg	₽	01/08/13 14:30	01/09/13 12:02	5
Fluoranthene	ND		1600	180	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5
Fluorene	ND		1600	88	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5
Indeno[1,2,3-cd]pyrene	ND		1600	110	ug/Kg	\$	01/08/13 14:30	01/09/13 12:02	5
1-Methylnaphthalene	ND		1600	55	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5
2-Methylnaphthalene	ND		1600	93	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5
Naphthalene	ND		1600	150	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5
Phenanthrene	ND		1600	83	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5
Pyrene	ND		1600	59	ug/Kg	₩	01/08/13 14:30	01/09/13 12:02	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90	D	50 - 120	01/08/13 14:30	01/09/13 12:02	5
Nitrobenzene-d5	91	D	50 - 120	01/08/13 14:30	01/09/13 12:02	5
Terphenyl-d14	91	D	55 ₋ 120	01/08/13 14:30	01/09/13 12:02	5

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-11

Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: 0113-SB5-2051ST-SO Lab Sample ID: 280-37602-10 Date Collected: 01/06/13 13:30 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 93.6 Result Qualifier RL MDL Unit D Prepared Dil Fac Analyte Analyzed ₩ Acenaphthene ND 350 11 ug/Kg 01/08/13 14:30 01/09/13 14:27 350 ug/Kg 01/08/13 14:30 01/09/13 14:27 Acenaphthylene ND 18 ₽ Anthracene ND 350 18 ug/Kg 01/08/13 14:30 01/09/13 14:27 Benzo[a]anthracene ND 350 21 ug/Kg 01/08/13 14:30 01/09/13 14:27 Benzo[a]pyrene ND 350 21 ug/Kg 01/08/13 14:30 01/09/13 14:27 Benzo[b]fluoranthene ND 350 01/08/13 14:30 01/09/13 14:27 28 ug/Kg ₽ Benzo[g,h,i]perylene ND 350 17 ug/Kg 01/08/13 14:30 01/09/13 14:27 Benzo[k]fluoranthene ND 350 01/08/13 14:30 01/09/13 14:27 42 ug/Kg ND 350 01/08/13 14:30 Chrysene 29 ug/Kg 01/09/13 14:27 ND 350 01/08/13 14:30 Dibenz(a,h)anthracene 20 ug/Kg 01/09/13 14:27 Fluoranthene ND 350 01/08/13 14:30 01/09/13 14:27 38 ug/Kg Fluorene ND 350 01/08/13 14:30 01/09/13 14:27 19 ug/Kg ND 350 Indeno[1,2,3-cd]pyrene 23 ug/Kg 01/08/13 14:30 01/09/13 14:27 1-Methylnaphthalene ND 350 12 ug/Kg 01/08/13 14:30 01/09/13 14:27 2-Methylnaphthalene ND 350 20 ug/Kg 01/08/13 14:30 01/09/13 14:27 Ö Naphthalene ND 350 ug/Kg 01/08/13 14:30 01/09/13 14:27 Phenanthrene ND 350 ug/Kg 01/08/13 14:30 18 01/09/13 14:27 Pyrene ND 350 ug/Kg 01/08/13 14:30 01/09/13 14:27

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74	50 - 120	01/08/13 14:30	01/09/13 14:27	1
Nitrobenzene-d5	76	50 ₋ 120	01/08/13 14:30	01/09/13 14:27	1
Terphenyl-d14	84	55 ₋ 120	01/08/13 14:30	01/09/13 14:27	1

Client Sample ID: 0113-SB1-5CEN-SO

Date Collected: 01/06/13 14:15

2-Fluorobiphenyl

Nitrobenzene-d5

Date Received: 01/08/13 09:00								Percent Soli	ds: 94.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		330	10	ug/Kg	\	01/08/13 14:30	01/09/13 14:47	1
Acenaphthylene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Anthracene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Benzo[a]anthracene	ND		330	20	ug/Kg	φ.	01/08/13 14:30	01/09/13 14:47	1
Benzo[a]pyrene	ND		330	20	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Benzo[b]fluoranthene	ND		330	27	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Benzo[g,h,i]perylene	ND		330	16	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Benzo[k]fluoranthene	ND		330	40	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Chrysene	ND		330	27	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Dibenz(a,h)anthracene	ND		330	19	ug/Kg	\$	01/08/13 14:30	01/09/13 14:47	1
Fluoranthene	ND		330	36	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Fluorene	ND		330	18	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Indeno[1,2,3-cd]pyrene	ND		330	22	ug/Kg	\$	01/08/13 14:30	01/09/13 14:47	1
1-Methylnaphthalene	ND		330	11	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
2-Methylnaphthalene	ND		330	19	ug/Kg	₩	01/08/13 14:30	01/09/13 14:47	1
Naphthalene	ND		330	31	ug/Kg		01/08/13 14:30	01/09/13 14:47	1
Phenanthrene	17	J	330	17	ug/Kg	₩	01/08/13 14:30	01/09/13 14:47	1
Pyrene	21	J	330	12	ug/Kg	₩	01/08/13 14:30	01/09/13 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

TestAmerica Denver

01/09/13 14:47

01/09/13 14:47

01/08/13 14:30

01/08/13 14:30

50 - 120

50 - 120

76

77

3

4

5

7

0

10

12

10

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Matrix: Solid

Percent Solids: 94.4

Client Sample ID: 0113-SB1-5CEN-SO Lab Sample ID: 280-37602-11

Date Collected: 01/06/13 14:15 Date Received: 01/08/13 09:00

Date Collected: 01/06/13 14:50

Client Sample ID: 0113-SB2-5CEN-SO

Surrogate %Recovery Qualifier Limits Prepared Analyzed Terphenyl-d14 84 55 - 120 01/08/13 14:30 01/09/13 14:47

Lab Sample ID: 280-37602-12

IV	latrix:	Solid	t
Percent S	Solids	: 93.6	6

Date Received: 01/08/13 09:00								Percent Soli	ds: 93.6
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		350	11	ug/Kg	<u></u>	01/08/13 14:30	01/09/13 15:08	1
Acenaphthylene	ND		350	18	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Anthracene	ND		350	18	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Benzo[a]anthracene	ND		350	21	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
Benzo[a]pyrene	ND		350	21	ug/Kg	₩	01/08/13 14:30	01/09/13 15:08	1
Benzo[b]fluoranthene	ND		350	28	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Benzo[g,h,i]perylene	ND		350	17	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
Benzo[k]fluoranthene	ND		350	42	ug/Kg	₩	01/08/13 14:30	01/09/13 15:08	1
Chrysene	ND		350	29	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Dibenz(a,h)anthracene	ND		350	20	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
Fluoranthene	ND		350	38	ug/Kg	₩	01/08/13 14:30	01/09/13 15:08	1
Fluorene	ND		350	19	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Indeno[1,2,3-cd]pyrene	ND		350	23	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
1-Methylnaphthalene	ND		350	12	ug/Kg	₩	01/08/13 14:30	01/09/13 15:08	1
2-Methylnaphthalene	ND		350	20	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Naphthalene	ND		350	33	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
Phenanthrene	ND		350	18	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Pyrene	ND		350	13	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75	50 - 120	01/08/13 14:30	01/09/13 15:08	1
Nitrobenzene-d5	84	50 - 120	01/08/13 14:30	01/09/13 15:08	1
Terphenyl-d14	84	55 ₋ 120	01/08/13 14:30	01/09/13 15:08	1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client: CDM Smith, Inc.

Surrogate

a,a,a-Trifluorotoluene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

							, ,	<u>'</u>	
Client Sample ID: 0113-SB1-2051	ST-SO						Lab S	Sample ID: 280-	-37602-1
Date Collected: 01/06/13 09:30								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.47	J	1.3	0.35	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		77 - 123				01/08/13 11:07	01/08/13 14:50	1
Client Sample ID: 0113-SB2-2051	ST-SO						Lab S	Sample ID: 280-	-37602-2
Date Collected: 01/06/13 10:25									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.60	J	1.3	0.35	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		77 - 123				01/08/13 11:07	01/08/13 15:19	1
Client Sample ID: 0113-SB3-2051	ST-80						Lab	Sample ID: 280-	37602-3
Date Collected: 01/06/13 11:20	31-30						Lab		ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		1.4	0.37	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 16:48	1
G. (66 616)	110			0.07	mg/rtg		01/00/10 11.07	0 1700/10 10:10	·
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene —	102		77 - 123				01/08/13 11:07	01/08/13 16:48	1
Client Sample ID: 0113-SB4-2051	ST-SO						Lab S	Sample ID: 280-	-37602-4
Date Collected: 01/06/13 12:15								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 95.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		1.2	0.34	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		77 - 123				01/08/13 11:07	01/08/13 17:17	1
- Client Sample ID: 0113-SB3-5CEN	I-SO						Lab S	Sample ID: 280-	-37602-5
Date Collected: 01/06/13 15:35								Matri	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		1.3	0.35	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	107		77 - 123				01/08/13 11:07	01/08/13 17:47	1
	1.60						1-1-6	Samula ID: 000	27600.0
Client Sample ID: 0113-SB4-5CEN	I-3U						Lab	Sample ID: 280	
Date Collected: 01/06/13 16:10									ix: Solid
Date Received: 01/08/13 09:00	Dog::l4	Qualifier	RL	MD	Unit	D	Droporod	Percent Soli	ds: 93.5 Dil Fac
Analyte GRO (C6-C10)	ND	- Quanner	1.3		mg/Kg	— ¤	Prepared 01/08/13 11:07	Analyzed 01/08/13 18:46	1
ONO (00-010)	IND		1.3	0.35	mymy	T	01/00/13 11.0/	01/00/13 10.40	ı
0	0/5	A 1:C:	,						D" -

TestAmerica Denver

Dil Fac

Analyzed

Prepared

Limits

77 - 123

%Recovery Qualifier

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client: CDM Smith, Inc.

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Client Sample ID: 0113-SB6-5CEI	N-SO						Lab S	Sample ID: 280-	37602
Date Collected: 01/06/13 16:50								Matri	x: Sol
Date Received: 01/08/13 09:00								Percent Soli	ds: 93
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
GRO (C6-C10)	ND		1.3	0.35	mg/Kg	\	01/08/13 11:07	01/08/13 19:15	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	108		77 - 123				01/08/13 11:07	01/08/13 19:15	
Client Sample ID: 0113-SB5-5CEI	N-SO						Lab S	Sample ID: 280-	37602
Date Collected: 01/06/13 17:35									x: Sol
Date Received: 01/08/13 09:00								Percent Soli	ds: 93
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
GRO (C6-C10)	ND		1.3	0.35	mg/Kg	\	01/08/13 11:07	01/08/13 19:45	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	107		77 - 123				01/08/13 11:07	01/08/13 19:45	
Client Sample ID: 0113-SB6-2051	ST-SO						Lab S	Sample ID: 280-	37602
Date Collected: 01/06/13 12:55									x: So
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
GRO (C6-C10)	ND	-	1.3	0.34	mg/Kg		01/08/13 11:07	01/08/13 20:14	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	106	-	77 - 123				01/08/13 11:07	01/08/13 20:14	
Client Sample ID: 0113-SB5-2051	27 20						I ab S	ample ID: 280-3	7602
Date Collected: 01/06/13 13:30	31-30						Lab 3		x: So
Date Received: 01/08/13 09:00	Popult	Qualifier	DI	MDI	Unit	D	Branarad	Percent Soli	as: 93 Dil F
Analyte GRO (C6-C10)	ND	Quaimer	1.3 —		mg/Kg	— ¤	Prepared 01/08/13 11:07	Analyzed 01/08/13 20:44	- DII F
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	- %Recovery 106	Quanner	77 - 123				01/08/13 11:07	01/08/13 20:44	- DII F
Client Sample ID: 0113-SB1-5CEI	N-SO						Lab Sa	ample ID: 280-3	
Date Collected: 01/06/13 14:15								Matri	x: So
Date Received: 01/08/13 09:00								Percent Soli	ds: 94
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
GRO (C6-C10)	ND		1.3	0.34	mg/Kg	#	01/08/13 11:07	01/08/13 21:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	103		77 - 123				01/08/13 11:07	01/08/13 21:13	
Client Sample ID: 0113-SB2-5CEI	N-SO						Lab Sa	ample ID: 280-3	7602-
Date Collected: 01/06/13 14:50								Matri	x: So
Date Received: 01/08/13 09:00								Percent Soli	ds: 93
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Allalyto		-		0.24	mg/Kg		01/08/13 11:07	01/08/13 21:43	
GRO (C6-C10)	ND		1.3	0.34	mg/rtg		01/00/10 11.07	01/00/10 21.40	
<u> </u>	ND %Recovery	Qualifier	1.3 Limits	0.34	mg/Kg		Prepared	Analyzed	Dil F

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client: CDM Smith, Inc.

o-Terphenyl

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Client Sample ID: 0113-SB1-2051	ST-SO						Lab S	Sample ID: 280	
Date Collected: 01/06/13 09:30									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte		Qualifier	- RL		Unit	— D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	270		4.3	0.73	mg/Kg	34:	01/08/13 12:20	01/09/13 10:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	83		49 - 115				01/08/13 12:20	01/09/13 10:50	1
Client Sample ID: 0113-SB2-2051	ST-SO						Lab S	Sample ID: 280	37602-2
Date Collected: 01/06/13 10:25								Matr	ix: Solic
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	51		4.2	0.72	mg/Kg	*	01/08/13 12:20	01/09/13 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86		49 - 115				01/08/13 12:20	01/09/13 12:03	1
Client Sample ID: 0113-SB3-2051	ST-SO						Lab S	Sample ID: 280	37602-3
Date Collected: 01/06/13 11:20								Matr	ix: Solic
Date Received: 01/08/13 09:00								Percent Soli	ds: 87.9
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	48		4.5	0.76	mg/Kg	*	01/08/13 12:20	01/09/13 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	92		49 - 115				01/08/13 12:20	01/09/13 12:28	1
Client Sample ID: 0113-SB4-2051	ST-SO						Lab S	Sample ID: 280	37602-4
Date Collected: 01/06/13 12:15								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 95.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	39		4.2	0.71	mg/Kg	*	01/08/13 12:20	01/09/13 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		49 _ 115				01/08/13 12:20	01/09/13 12:52	1
Client Sample ID: 0113-SB3-5CEN	N-SO						Lab S	Sample ID: 280	37602-5
Date Collected: 01/06/13 15:35								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	0.90	J	4.0	0.68	mg/Kg	₩	01/08/13 12:20	01/09/13 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl -	71		49 - 115				01/08/13 12:20	01/09/13 13:17	1
Client Sample ID: 0113-SB4-5CEN	N-SO						Lab S	Sample ID: 280	37602-6
Date Collected: 01/06/13 16:10									ix: Solic
Date Received: 01/08/13 09:00								Percent Soli	
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		4.0	0.68	mg/Kg	*	01/08/13 12:20	01/09/13 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			10 115				04/00/40 40:00	04/00/40 40:44	

TestAmerica Denver

49 - 115

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Date Collected: 01/06/13 16:50									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
DRO (C10-C28)	2.2	J	4.2	0.70	mg/Kg	*	01/08/13 12:20	01/09/13 14:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	61		49 - 115				01/08/13 12:20	01/09/13 14:06	
Client Sample ID: 0113-SB5-5CEN-	SO						Lab S	Sample ID: 280-	-37602-
Date Collected: 01/06/13 17:35								Matri	ix: Soli
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
DRO (C10-C28)	1.0	J	4.0	0.68	mg/Kg	₩	01/08/13 12:20	01/09/13 14:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	76		49 - 115				01/08/13 12:20	01/09/13 14:31	
Client Sample ID: 0113-SB6-2051S	r-so						Lah S	Sample ID: 280-	.37602-
Date Collected: 01/06/13 12:55									ix: Soli
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
DRO (C10-C28)	57		4.1	0.70	mg/Kg	<u> </u>	01/08/13 12:20	01/09/13 14:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	62		49 - 115				01/08/13 12:20	01/09/13 14:56	
Client Sample ID: 0113-SB5-2051S	r-so						Lab Sa	mple ID: 280-3	7602-1
Date Collected: 01/06/13 13:30								Matri	ix: Soli
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
DRO (C10-C28)	1.2	J	4.0	0.68	mg/Kg	\	01/08/13 12:20	01/09/13 15:20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	77		49 - 115				01/08/13 12:20	01/09/13 15:20	
Client Sample ID: 0113-SB1-5CEN-	SO						Lah Sa	mple ID: 280-3	7602-1
Date Collected: 01/06/13 14:15									ix: Soli

Date Received: 01/08/13 09:00								Percent Soli	ds: 94.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	8.0		4.0	0.68	mg/Kg	\	01/08/13 12:20	01/09/13 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qua	lifier Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71	49 - 115	01/08/13 12:20	01/09/13 15:45	1

Client Sample ID: 0113-SB2-5CEN-SO							Lab S	ample ID: 280-3	7602-12
Date Collected: 01/06/13 14:50								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.6
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

DRO (C10-C28)	ND	4.0	0.68 mg/Kg	01/08/13 12:20	01/09/13 16:20	1
Surrogate	%Recovery Quali	ifier Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	70	49 - 115		01/08/13 12:20	01/09/13 16:20	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 6010B - Metals (ICP)

Client Sample ID: 0113-SB1-2051ST-SO	Client Sample ID: 0113-SB1-2051ST-SO									
Date Collected: 01/06/13 09:30								Matri	ix: Solid	
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.5	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	8.4		1.9	0.64	mg/Kg	\	01/09/13 08:00	01/09/13 17:10	1	
Barium	240		0.96	0.073	mg/Kg	₩	01/09/13 08:00	01/09/13 17:10	1	
Cadmium	0.37	J	0.48	0.040	mg/Kg	₽	01/09/13 08:00	01/09/13 17:10	1	
Chromium	11		1.4	0.056	mg/Kg	₽	01/09/13 08:00	01/09/13 17:10	1	
Lead	27		0.77	0.26	mg/Kg	₽	01/09/13 08:00	01/09/13 17:10	1	
Selenium	ND		1.3	0.83	mg/Kg	₩	01/09/13 08:00	01/09/13 17:10	1	
Silver	ND		0.96	0.15	mg/Kg	\$	01/09/13 08:00	01/09/13 17:10	1	

Client Sample ID: 0113-SB2-2051ST-S	Lab S	Lab Sample ID: 280-37602-2							
Date Collected: 01/06/13 10:25	Collected: 01/06/13 10:25								
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.7		2.0	0.66	mg/Kg	\$	01/09/13 08:00	01/09/13 17:19	1
Barium	190		0.99	0.076	mg/Kg	≎	01/09/13 08:00	01/09/13 17:19	1
Cadmium	0.32	J	0.50	0.041	mg/Kg	₽	01/09/13 08:00	01/09/13 17:19	1
Chromium	14		1.5	0.058	mg/Kg	₽	01/09/13 08:00	01/09/13 17:19	1
Lead	23		0.80	0.27	mg/Kg	≎	01/09/13 08:00	01/09/13 17:19	1
Selenium	ND		1.3	0.86	mg/Kg	₽	01/09/13 08:00	01/09/13 17:19	1
Silver	ND		0.99	0.16	mg/Kg	\$	01/09/13 08:00	01/09/13 17:19	1

Client Sample ID: 0113-SB3-2051ST	Client Sample ID: 0113-SB3-2051ST-SO Lab Sample ID: 280-37602-3										
Date Collected: 01/06/13 11:20								Matri	x: Solid		
Date Received: 01/08/13 09:00								Percent Soli	ds: 87.9		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Arsenic	6.9		1.9	0.63	mg/Kg	₩	01/09/13 08:00	01/09/13 17:22	1		
Barium	200		0.96	0.073	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1		
Cadmium	0.37	J	0.48	0.039	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1		
Chromium	12		1.4	0.055	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1		
Lead	32		0.76	0.26	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1		
Selenium	ND		1.2	0.82	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1		
Silver	ND		0.06	0.15	ma/Ka		01/00/13 08:00	01/00/13 17:22	1		

Client Sample ID: 0113-SB4-20)51ST-SO			Lab S	Sample ID: 280-	37602-4			
Date Collected: 01/06/13 12:15								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 95.2
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		1.9	0.62	mg/Kg	*	01/09/13 08:00	01/09/13 17:33	1
Barium	100		0.94	0.071	mg/Kg	₩	01/09/13 08:00	01/09/13 17:33	1
Cadmium	0.26 J	I	0.47	0.038	mg/Kg	₩	01/09/13 08:00	01/09/13 17:33	1
Chromium	13		1.4	0.054	mg/Kg	₽	01/09/13 08:00	01/09/13 17:33	1
Lead	4.2		0.75	0.25	mg/Kg	₩	01/09/13 08:00	01/09/13 17:33	1
Selenium	ND		1.2	0.81	mg/Kg	₩	01/09/13 08:00	01/09/13 17:33	1
Silver	ND		0.94	0.15	mg/Kg	₽	01/09/13 08:00	01/09/13 17:33	1

Client Sample ID: 0113-SB3-5CEN-SO							Lab Sample ID: 280-37602-						
	Date Collected: 01/06/13 15:35								Matri	x: Solid			
	Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2			
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
	Arsenic	6.9		1.9	0.62	mg/Kg	*	01/09/13 08:00	01/09/13 17:36	1			
	Barium	140		0.94	0.072	mg/Kg	₽	01/09/13 08:00	01/09/13 17:36	1			

TestAmerica Denver

Page 38 of 76

Lab Sample ID: 280-37602-7

Client: CDM Smith, Inc.

Client Sample ID: 0113-SB6-5CEN-SO

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: 0113-SB3-5CEN-SO		Lab Sample ID: 280-37602-5							
Date Collected: 01/06/13 15:35		Matrix: Solid							
Date Received: 01/08/13 09:00			Percent Soli	ds: 92.2					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.24	J	0.47	0.039	mg/Kg	*	01/09/13 08:00	01/09/13 17:36	1
Chromium	9.3		1.4	0.055	mg/Kg	≎	01/09/13 08:00	01/09/13 17:36	1
Lead	3.8		0.75	0.25	mg/Kg	₽	01/09/13 08:00	01/09/13 17:36	1
Selenium	ND		1.2	0.81	mg/Kg	₽	01/09/13 08:00	01/09/13 17:36	1
Silver	ND		0.04	0.15	ma/Ka	'	01/00/13 08:00	01/00/13 17:36	1

Client Sample ID: 0113-SE	34-5CEN-SO						Lab S	Sample ID: 280-	37602-6	
Date Collected: 01/06/13 16:10							Matrix: Solid			
Date Received: 01/08/13 0						Percent Soli	ds: 93.5			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	6.9		1.9	0.64	mg/Kg	\	01/09/13 08:00	01/09/13 17:39	1	
Barium	97		0.96	0.073	mg/Kg	₩	01/09/13 08:00	01/09/13 17:39	1	
Cadmium	0.25	J	0.48	0.039	mg/Kg	₽	01/09/13 08:00	01/09/13 17:39	1	
Chromium	7.6		1.4	0.056	mg/Kg	\$	01/09/13 08:00	01/09/13 17:39	1	
Lead	3.2		0.77	0.26	mg/Kg	₩	01/09/13 08:00	01/09/13 17:39	1	
Selenium	0.84	J	1.3	0.83	mg/Kg	₩	01/09/13 08:00	01/09/13 17:39	1	
Silver	ND		0.96	0.15	mg/Kg		01/09/13 08:00	01/09/13 17:39	1	

Date Collected: 01/06/13 16:50)							Matri	ix: Solid
Date Received: 01/08/13 09:00)							Percent Soli	ds: 93.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		1.8	0.59	mg/Kg	<u></u>	01/09/13 08:00	01/09/13 17:41	1
Barium	140		0.90	0.068	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Cadmium	0.36	J	0.45	0.037	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Chromium	9.2		1.3	0.052	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Lead	7.8		0.72	0.24	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Selenium	ND		1.2	0.77	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Silver	ND		0.90	0.14	ma/Ka		01/09/13 08:00	01/09/13 17:41	1

Client Sample ID: 0113-SB5-5CEN-SO Date Collected: 01/06/13 17:35							Lab Sample ID: 280-37602-8				
								Matri	x: Solid		
Date Received: 01/08/13 09:00				Percent Soli	ds: 93.9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Arsenic	6.6		2.0	0.66	mg/Kg	\	01/09/13 08:00	01/09/13 17:44	1		
Barium	150		1.0	0.076	mg/Kg	₩	01/09/13 08:00	01/09/13 17:44	1		
Cadmium	0.25	J	0.50	0.041	mg/Kg	₩	01/09/13 08:00	01/09/13 17:44	1		
Chromium	7.9		1.5	0.058	mg/Kg	₩	01/09/13 08:00	01/09/13 17:44	1		
Lead	3.7		0.80	0.27	mg/Kg	₩	01/09/13 08:00	01/09/13 17:44	1		
Selenium	ND		1.3	0.86	mg/Kg	₩	01/09/13 08:00	01/09/13 17:44	1		
Silver	ND		1.0	0.16	mg/Kg	\$	01/09/13 08:00	01/09/13 17:44	1		

Client Sample ID: 0113-SB6-2051ST-SO							Lab Sample ID: 280-37602-9					
Date Collected: 01/06/13 12:55				Matri	x: Solid							
Date Received: 01/08/13 09:00						Percent Soli	t Solids: 94.7					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Arsenic	7.8		1.8	0.59	mg/Kg	<u> </u>	01/09/13 08:00	01/09/13 17:46	1			
Barium	130		0.90	0.068	mg/Kg	₽	01/09/13 08:00	01/09/13 17:46	1			
Cadmium	0.23	J	0.45	0.037	mg/Kg	₽	01/09/13 08:00	01/09/13 17:46	1			
Chromium	11		1.3	0.052	mg/Kg	₽	01/09/13 08:00	01/09/13 17:46	1			
1												

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: 0113-SB6-2051ST-SO	Lab Sample ID: 280-37602-9
Date Collected: 01/06/13 12:55	Matrix: Solid

Date Received: 01/08/13 09:00 Percent Solids: 94.7 RL MDL Unit D Analyzed Dil Fac Result Qualifier Prepared 0.72 0.24 01/09/13 08:00 01/09/13 17:46 Lead 3.5 mg/Kg ND 01/09/13 08:00 01/09/13 17:46 Selenium 12 0.77 mg/Kg φ Silver ND 0.90 0.14 mg/Kg 01/09/13 08:00 01/09/13 17:46

 Client Sample ID: 0113-SB5-2051ST-SO
 Lab Sample ID: 280-37602-10

 Date Collected: 01/06/13 13:30
 Matrix: Solid

 Date Received: 01/08/13 09:00
 Percent Solids: 93.6

Date Received. 01/00/13 03.00							Percent Son	nus. 33.0		
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Arsenic	7.1	2.1	0.68	mg/Kg	*	01/09/13 08:00	01/09/13 17:49	1		
Barium	170	1.0	0.078	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1		
Cadmium	0.27 J	0.51	0.042	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1		
Chromium	28	1.5	0.060	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1		
Lead	4.4	0.82	0.28	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1		
Selenium	ND	1.3	0.88	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1		
Silver	ND	1.0	0.16	mg/Kg	₩	01/09/13 08:00	01/09/13 17:49	1		

Client Sample ID: 0113-SB1-5CEN-SO Lab Sample ID: 280-37602-11

Date Collected: 01/06/13 14:15

Matrix: Solid

Para Para in the Collected: 01/06/13 14:15

Date Received: 01/08/13 09:00 Percent Solids: 94.4 Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac ₩ Arsenic 6.3 1.9 0.64 mg/Kg 01/09/13 08:00 01/09/13 17:51 **Barium** 110 0.96 0.073 mg/Kg 01/09/13 08:00 01/09/13 17:51 0.48 0.039 mg/Kg ä 01/09/13 08:00 01/09/13 17:51 Cadmium 0.24 0.056 mg/Kg 01/09/13 08:00 01/09/13 17:51 1.4 Chromium 8.9 ŭ 0.77 0.26 mg/Kg 01/09/13 08:00 01/09/13 17:51 Lead 3.7 Selenium ND 1.3 0.83 mg/Kg 01/09/13 08:00 01/09/13 17:51 01/09/13 08:00 01/09/13 17:51 Silver ND 0.96 0.15 mg/Kg

 Client Sample ID: 0113-SB2-5CEN-SO
 Lab Sample ID: 280-37602-12

 Date Collected: 01/06/13 14:50
 Matrix: Solid

Date Received: 01/08/13 09:00 Percent Solids: 93.6 MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac 7.1 1.9 0.63 mg/Kg 01/09/13 08:00 01/09/13 17:54 **Arsenic Barium** 110 0.95 0.073 mg/Kg 01/09/13 08:00 01/09/13 17:54 0.48 0.039 mg/Kg 01/09/13 08:00 01/09/13 17:54 Cadmium 0.26 φ 01/09/13 17:54 Chromium 9.9 1.4 0.055 mg/Kg 01/09/13 08:00 0.76 01/09/13 08:00 01/09/13 17:54 3.9 0.26 mg/Kg Lead Selenium ND 1.2 0.82 mg/Kg 01/09/13 08:00 01/09/13 17:54 01/09/13 08:00 Silver ND 0.95 0.15 mg/Kg 01/09/13 17:54

Client: CDM Smith, Inc.

TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 7471A - Mercury (CVAA)

Date Collected: 01/06/13 17:35

Date Received: 01/08/13 09:00

Date Collected: 01/06/13 12:55

Date Received: 01/08/13 09:00

Client Sample ID: 0113-SB6-2051ST-SO

Analyte

Mercury

Analyte

Mercury

Client Sample ID: 0113-SB1-2051ST-SO							Lab	Sample ID: 280-	
Date Collected: 01/06/13 09:30									ix: Solid
Date Received: 01/08/13 09:00	D 14	0	D.	MDI	1114	D	D	Percent Soli	
Analyte		Qualifier	RL -		Unit	— ¤	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.017	0.0055	mg/Kg	745	01/08/13 13:25	01/08/13 15:10	1
Client Sample ID: 0113-SB2-2051ST-SO							Lab	Sample ID: 280-	37602-2
Date Collected: 01/06/13 10:25								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.016	0.0051	mg/Kg	\$	01/08/13 13:25	01/08/13 15:17	1
Client Sample ID: 0113-SB3-2051ST-SO							Lab S	Sample ID: 280-	37602-3
Date Collected: 01/06/13 11:20									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.094		0.021	0.0070	mg/Kg	<u></u>	01/08/13 13:25	01/08/13 15:24	1
Client Sample ID: 0113-SB4-2051ST-SO							l ab (Sample ID: 200	27602 4
Date Collected: 01/06/13 12:15							Lab	Sample ID: 280	
									ix: Solid
Date Received: 01/08/13 09:00 Analyte	Popult	Qualifier	RL	MDI	Unit	D	Prepared	Percent Soli Analyzed	Dil Fac
Mercury	0.025	- Qualifier	0.020	0.0065		— ¤	01/08/13 13:25	01/08/13 15:26	1
- Wercury	0.023		0.020	0.0000	mg/rtg		01/00/10 10:20	01/00/10 10:20	
Client Sample ID: 0113-SB3-5CEN-SO							Lab S	Sample ID: 280-	37602-5
Date Collected: 01/06/13 15:35								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.023	0.0073	mg/Kg	*	01/08/13 13:25	01/08/13 15:28	1
Client Sample ID: 0113-SB4-5CEN-SO							Lab S	Sample ID: 280-	37602-6
Date Collected: 01/06/13 16:10									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0062	mg/Kg	<u> </u>	01/08/13 13:25	01/08/13 15:31	1
Client Sample ID: 0113-SB6-5CEN-SO							Lah 9	Sample ID: 280-	.37602-7
Date Collected: 01/06/13 16:50							Lab		ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.021	0.0070		<u>→</u>	01/08/13 13:25	01/08/13 15:33	1
_									
Client Sample ID: 0113-SB5-5CEN-SO							Lab	Sample ID: 280-	37602-8
D / O !! / ! O / !O O / ! O F									

Matrix: Solid

Matrix: Solid

Dil Fac

Percent Solids: 93.9

Percent Solids: 94.7

Analyzed

Lab Sample ID: 280-37602-9

Analyzed

01/08/13 15:42

Prepared

Prepared

01/08/13 13:25

01/08/13 13:25 01/08/13 15:35

D

RL

RL

0.018

MDL Unit

0.0058 mg/Kg

MDL Unit

0.0059 mg/Kg

Result Qualifier

Result Qualifier

0.023

0.028

Client: CDM Smith, Inc. TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 7471A - Mercury (CVAA)

Client Sample ID: 0113-SB5-2051ST-SO Lab Sample ID: 280-37602-10

Date Collected: 01/06/13 13:30

Percent Solids: 93.6 Date Received: 01/08/13 09:00 Analyte Result Qualifier RLMDL Unit D Analyzed Dil Fac Prepared ₩ 01/08/13 13:25 Mercury 0.031 0.018 0.0057 mg/Kg 01/08/13 15:45

Client Sample ID: 0113-SB1-5CEN-SO Lab Sample ID: 280-37602-11

Date Collected: 01/06/13 14:15 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 94.4

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed ₩ 0.017 01/08/13 13:25 0.0054 mg/Kg 01/08/13 15:47 Mercury 0.020

Client Sample ID: 0113-SB2-5CEN-SO Lab Sample ID: 280-37602-12

Date Collected: 01/06/13 14:50

Matrix: Solid Date Received: 01/08/13 09:00 Percent Solids: 93.6 Analyte Result Qualifier MDL Unit Analyzed 0.016 0.0053 mg/Kg 01/08/13 13:25 01/08/13 15:49 0.022 Mercury

Matrix: Solid

Client: CDM Smith, Inc.

TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

General	Chemistry
---------	-----------

Client Sample ID: 0113-SB1-2051ST-SO	Lab Sample ID: 280-37602-1
Date Collected: 01/06/13 09:30	Matrix: Solid
Date Received: 01/08/13 09:00	

 Analyte
 Result Qualifier
 RL O.10
 RL O.10
 Unit O.10
 D Prepared O.10
 Analyzed O.10/08/13 11:33
 Dil Factoria

Client Sample ID: 0113-SB2-2051ST-SO

Date Collected: 01/06/13 10:25

Lab Sample ID: 280-37602-2

Matrix: Solid

Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Qualifier
 RL
 RL
 RL Unit
 D Prepared
 Analyzed Analyzed
 Dil Fac

 0.10
 0.10
 %
 0.108/13 11:33
 1

Client Sample ID: 0113-SB3-2051ST-SO

Date Collected: 01/06/13 11:20

Lab Sample ID: 280-37602-3

Matrix: Solid

Date Collected: 01/06/13 11:20 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Qualifier
 RL O.10
 RL O.10
 Unit O.10
 D Prepared O.10/08/13 11:33
 Analyzed O.10/08/13 11:33
 Dil Factoria

Client Sample ID: 0113-SB4-2051ST-SO

Lab Sample ID: 280-37602-4

Date Collected: 01/06/13 12:15

Matrix: Solid

Date Received: 01/08/13 09:00

Client Sample ID: 0113-SB3-5CEN-SO Lab Sample ID: 280-37602-5

Date Collected: 01/06/13 15:35 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Qualifier
 RL O.10
 RL O.10
 Unit W
 D Wrepared Discovery
 Analyzed Oil Prepared Oi

Client Sample ID: 0113-SB4-5CEN-SO

Lab Sample ID: 280-37602-6

Date Collected: 01/06/13 16:10 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Result Result Result Percent Moisture
 Qualifier RL O.10
 RL O.10
 RL O.10
 Unit W
 D O.10
 Prepared Prepared O.10/08/13 11:33
 Dil Factoria

Client Sample ID: 0113-SB6-5CEN-SO Lab Sample ID: 280-37602-7

Date Collected: 01/06/13 16:50 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Result Result Qualifier
 RL RL Unit Result R

Client Sample ID: 0113-SB5-5CEN-SO

Lab Sample ID: 280-37602-8

Date Collected: 01/06/13 17:35

Matrix: Solid

Date Collected: 01/06/13 17:35 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Result Qualifier
 RL
 RL
 RL Unit
 D
 Prepared
 Analyzed
 Dil Fac

 0.10
 0.10
 %
 01/08/13 11:33
 1

Client Sample ID: 0113-SB6-2051ST-SO

Date Collected: 01/06/13 12:55

Lab Sample ID: 280-37602-9

Matrix: Solid

Date Received: 01/08/13 09:00

 Analyte
 Result
 Qualifier
 RL
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Percent Moisture
 5.3
 0.10
 0.10
 %
 01/08/13 11:33
 1

TestAmerica Denver

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: CDM Smith, Inc. TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

General Chemistry

Client Sample ID: 0113-SB5-2051ST-SO Lab Sample ID: 280-37602-10

Date Collected: 01/06/13 13:30 Date Received: 01/08/13 09:00

Matrix: Solid

Analyte Result Qualifier RLRL Unit D Prepared Analyzed Dil Fac Percent Moisture 0.10 0.10 % 01/08/13 11:33 6.4

Client Sample ID: 0113-SB1-5CEN-SO Lab Sample ID: 280-37602-11 Date Collected: 01/06/13 14:15 **Matrix: Solid**

Date Received: 01/08/13 09:00

Analyte Result Qualifier RL RL Unit D Dil Fac Prepared Analyzed 0.10 0.10 % 01/08/13 11:33 **Percent Moisture** 5.6

Client Sample ID: 0113-SB2-5CEN-SO Lab Sample ID: 280-37602-12

Date Collected: 01/06/13 14:50

Date Received: 01/08/13 09:00 Analyte Result Qualifier RL RL Unit Prepared Analyzed Dil Fac

0.10 0.10 % 01/08/13 11:33 Percent Moisture 6.4

Matrix: Solid

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client: CDM Smith, Inc.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: Total/NA

				Percent Sur	rogate Reco
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(76-127)	(75-121)	(58-140)	(80-126)
280-37602-1	0113-SB1-2051ST-SO	102	93	86	102
280-37602-2	0113-SB2-2051ST-SO	105	83	87	102
280-37602-3	0113-SB3-2051ST-SO	110	96	89	106
280-37602-4	0113-SB4-2051ST-SO	113	95	86	103
280-37602-5	0113-SB3-5CEN-SO	102	94	88	100
280-37602-6	0113-SB4-5CEN-SO	101	95	87	101
280-37602-7	0113-SB6-5CEN-SO	103	94	87	101
280-37602-8	0113-SB5-5CEN-SO	107	95	88	104
280-37602-9	0113-SB6-2051ST-SO	104	96	89	103
280-37602-10	0113-SB5-2051ST-SO	104	95	90	101
280-37602-11	0113-SB1-5CEN-SO	92	93	84	100
280-37602-12	0113-SB2-5CEN-SO	97	97	88	101
LCS 280-154981/3-A	Lab Control Sample	104	96	96	100
LCS 280-154985/3-A	Lab Control Sample	103	96	92	99
LCSD 280-154981/4-A	Lab Control Sample Dup	106	97	97	100
LCSD 280-154985/4-A	Lab Control Sample Dup	104	102	102	103
MB 280-154981/1-A	Method Blank	100	94	87	101
MB 280-154985/1-A	Method Blank	102	96	89	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: Total/NA

				Percent Surr	rogate Red
		FBP	NBZ	TPH	
Lab Sample ID	Client Sample ID	(50-120)	(50-120)	(55-120)	
280-37602-1	0113-SB1-2051ST-SO	86 D	76 D	89 D	
280-37602-2	0113-SB2-2051ST-SO	83 D	74 D	88 D	
280-37602-3	0113-SB3-2051ST-SO	78 D	71 D	89 D	
280-37602-4	0113-SB4-2051ST-SO	85 D	78 D	92 D	
280-37602-5	0113-SB3-5CEN-SO	71	77	82	
280-37602-5 MS	0113-SB3-5CEN-SO	73	76	81	
280-37602-5 MSD	0113-SB3-5CEN-SO	71	72	82	
280-37602-6	0113-SB4-5CEN-SO	68	73	84	
280-37602-7	0113-SB6-5CEN-SO	76	77	85	
280-37602-8	0113-SB5-5CEN-SO	75	79	85	
280-37602-9	0113-SB6-2051ST-SO	90 D	91 D	91 D	
280-37602-10	0113-SB5-2051ST-SO	74	76	84	
280-37602-11	0113-SB1-5CEN-SO	76	77	84	
280-37602-12	0113-SB2-5CEN-SO	75	84	84	
LCS 280-154984/2-A	Lab Control Sample	77	81	87	
MB 280-154984/1-A	Method Blank	76	80	77	

Surrogate Legend

FBP = 2-Fluorobiphenyl

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

,

NBZ = Nitrobenzene-d5 TPH = Terphenyl-d14

Client: CDM Smith, Inc.

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limit
		TFT1	
Lab Sample ID	Client Sample ID	(77-123)	
280-37602-1	0113-SB1-2051ST-SO	108	
280-37602-2	0113-SB2-2051ST-SO	106	
280-37602-2 MS	0113-SB2-2051ST-SO	107	
280-37602-2 MSD	0113-SB2-2051ST-SO	108	
280-37602-3	0113-SB3-2051ST-SO	102	
280-37602-4	0113-SB4-2051ST-SO	106	
280-37602-5	0113-SB3-5CEN-SO	107	
280-37602-6	0113-SB4-5CEN-SO	106	
280-37602-7	0113-SB6-5CEN-SO	108	
280-37602-8	0113-SB5-5CEN-SO	107	
280-37602-9	0113-SB6-2051ST-SO	106	
280-37602-10	0113-SB5-2051ST-SO	106	
280-37602-11	0113-SB1-5CEN-SO	103	
280-37602-12	0113-SB2-5CEN-SO	105	
_CS 280-154982/1-A	Lab Control Sample	105	
_CSD 280-154982/2-A	Lab Control Sample Dup	116	
MB 280-154982/3-A	Method Blank	114	

TFT = a,a,a-Trifluorotoluene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		OTPH1	
Lab Sample ID	Client Sample ID	(49-115)	
280-37602-1	0113-SB1-2051ST-SO	83	
280-37602-1 MS	0113-SB1-2051ST-SO	86	
280-37602-1 MSD	0113-SB1-2051ST-SO	93	
280-37602-2	0113-SB2-2051ST-SO	86	
280-37602-3	0113-SB3-2051ST-SO	92	
280-37602-4	0113-SB4-2051ST-SO	80	
280-37602-5	0113-SB3-5CEN-SO	71	
280-37602-6	0113-SB4-5CEN-SO	75	
280-37602-7	0113-SB6-5CEN-SO	61	
280-37602-8	0113-SB5-5CEN-SO	76	
280-37602-9	0113-SB6-2051ST-SO	62	
280-37602-10	0113-SB5-2051ST-SO	77	
280-37602-11	0113-SB1-5CEN-SO	71	
280-37602-12	0113-SB2-5CEN-SO	70	
LCS 280-154977/2-A	Lab Control Sample	73	
MB 280-154977/1-A	Method Blank	77	
Surrogate Legend			
OTPH = o-Terphenyl			

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-154981/1-A

Matrix: Solid

Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 155009	МВ	MB						Prep Batch	: 154981
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20		ug/Kg	— <u>-</u>	01/08/13 11:07	01/08/13 14:26	1
Benzene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Bromoform	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Bromomethane	ND		9.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
2-Butanone (MEK)	ND		20		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Carbon disulfide	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Carbon tetrachloride	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Chlorobenzene	ND		4.9		ug/Kg ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Chlorobromomethane	ND ND		4.9		ug/Kg ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Chlorodibromomethane	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Chloroethane	ND		9.9	0.88			01/08/13 11:07	01/08/13 14:26	1
Chloroform	ND		9.9	0.29			01/08/13 11:07	01/08/13 14:26	1
Chloromethane	ND		9.9	0.76			01/08/13 11:07	01/08/13 14:26	1
cis-1,2-Dichloroethene	ND		2.5		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Cyclohexane	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,2-Dibromo-3-Chloropropane	ND		9.9	0.59			01/08/13 11:07	01/08/13 14:26	1
1,2-Dibromoethane	ND		4.9	0.51	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,2-Dichlorobenzene	ND		4.9	0.45	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,3-Dichlorobenzene	ND		4.9	0.48	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,4-Dichlorobenzene	ND		4.9	0.77	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Dichlorobromomethane	ND		4.9	0.22	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Dichlorodifluoromethane	ND		9.9	0.51	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,1-Dichloroethane	ND		4.9	0.21	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,2-Dichloroethane	ND		4.9	0.69	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,1-Dichloroethene	ND		4.9	0.58	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,2-Dichloropropane	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,4-Dioxane	ND		490	56	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Ethylbenzene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
2-Hexanone	ND		20		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Isopropylbenzene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Methyl acetate	ND		9.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Methylcyclohexane	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Methylene Chloride	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
4-Methyl-2-pentanone (MIBK)	ND		20		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Methyl tert-butyl ether	ND		20		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
m-Xylene & p-Xylene	ND		2.5		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
	ND		2.5					01/08/13 14:26	
o-Xylene					ug/Kg		01/08/13 11:07		1
Styrene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Tetrachloroethene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Toluene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
trans-1,2-Dichloroethene	ND		2.5		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,2,4-Trichlorobenzene	ND		4.9	0.72	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,1,1-Trichloroethane	ND		4.9	0.51	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,1,2-Trichloroethane	ND		4.9	0.87	ug/Kg		01/08/13 11:07	01/08/13 14:26	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154981/1-A

Matrix: Solid

Analysis Batch: 155009

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 154981

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		4.9	0.23	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Trichlorofluoromethane	ND		9.9	1.0	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Vinyl chloride	ND		4.9	1.3	ug/Kg		01/08/13 11:07	01/08/13 14:26	1

MB MB

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	100		76 - 127	01/08/13 11:07	01/08/13 14:26	1
l	Dibromofluoromethane (Surr)	94		75 - 121	01/08/13 11:07	01/08/13 14:26	1
İ	1,2-Dichloroethane-d4 (Surr)	87		58 - 140	01/08/13 11:07	01/08/13 14:26	1
l	Toluene-d8 (Surr)	101		80 - 126	01/08/13 11:07	01/08/13 14:26	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 280-154981/3-A **Matrix: Solid** Prep Type: Total/NA **Prep Batch: 154981** Analysis Batch: 155009

Third, yello Butonii 100000	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acetone	200	217		ug/Kg		108	65 - 150	
Benzene	50.0	46.9		ug/Kg		94	75 - 135	
Bromoform	50.0	49.3		ug/Kg		99	77 _ 135	
Bromomethane	50.0	47.6		ug/Kg		95	52 - 135	
2-Butanone (MEK)	200	219		ug/Kg		110	45 _ 177	
Carbon disulfide	50.0	37.4		ug/Kg		75	45 _ 150	
Carbon tetrachloride	50.0	51.9		ug/Kg		104	69 - 138	
Chlorobenzene	50.0	48.1		ug/Kg		96	78 - 135	
Chlorobromomethane	50.0	48.8		ug/Kg		98	74 - 135	
Chlorodibromomethane	50.0	52.0		ug/Kg		104	77 _ 135	
Chloroethane	50.0	47.8		ug/Kg		96	51 - 145	
Chloroform	50.0	49.3		ug/Kg		99	73 - 123	
Chloromethane	50.0	50.1		ug/Kg		100	41 - 138	
cis-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	76 - 135	
cis-1,3-Dichloropropene	50.0	51.0		ug/Kg		102	71 _ 135	
1,2-Dibromo-3-Chloropropane	50.0	55.6		ug/Kg		111	66 - 150	
1,2-Dibromoethane	50.0	48.8		ug/Kg		98	76 _ 135	
1,2-Dichlorobenzene	50.0	49.4		ug/Kg		99	73 _ 135	
1,3-Dichlorobenzene	50.0	49.4		ug/Kg		99	69 - 135	
1,4-Dichlorobenzene	50.0	50.3		ug/Kg		101	73 _ 135	
Dichlorobromomethane	50.0	51.2		ug/Kg		102	73 - 135	
Dichlorodifluoromethane	50.0	39.8		ug/Kg		80	32 _ 152	
1,1-Dichloroethane	50.0	48.5		ug/Kg		97	70 - 135	
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	69 - 135	
1,1-Dichloroethene	50.0	54.9		ug/Kg		110	79 _ 135	
1,2-Dichloropropane	50.0	47.6		ug/Kg		95	72 - 121	
Ethylbenzene	50.0	48.7		ug/Kg		97	73 _ 125	
2-Hexanone	200	187		ug/Kg		93	67 _ 150	
Isopropylbenzene	50.0	49.1		ug/Kg		98	74 - 137	
Methylene Chloride	50.0	45.8		ug/Kg		92	76 - 136	
4-Methyl-2-pentanone (MIBK)	200	195		ug/Kg		97	69 - 150	
Methyl tert-butyl ether	50.0	50.9		ug/Kg		102	71 - 141	

Client: CDM Smith, Inc. Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154981/3-A

Matrix: Solid

Analysis Batch: 155009

Client Sample ID: Lab Control Sample Prep Type: Total/NA **Prep Batch: 154981**

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m-Xylene & p-Xylene	100	97.4		ug/Kg		97	77 - 135	
o-Xylene	50.0	48.2		ug/Kg		96	75 ₋ 135	
Styrene	50.0	51.7		ug/Kg		103	76 - 135	
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	65 - 135	
Tetrachloroethene	50.0	47.5		ug/Kg		95	76 _ 135	
Toluene	50.0	47.3		ug/Kg		95	77 - 122	
trans-1,2-Dichloroethene	50.0	49.2		ug/Kg		98	77 ₋ 135	
trans-1,3-Dichloropropene	50.0	51.3		ug/Kg		103	71 ₋ 135	
1,2,3-Trichlorobenzene	50.0	49.4		ug/Kg		99	62 - 135	
1,2,4-Trichlorobenzene	50.0	51.1		ug/Kg		102	65 _ 135	
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	70 - 135	
1,1,2-Trichloroethane	50.0	47.7		ug/Kg		95	78 ₋ 135	
Trichloroethene	50.0	47.7		ug/Kg		95	77 ₋ 135	
Trichlorofluoromethane	50.0	47.1		ug/Kg		94	48 - 150	
Vinyl chloride	50.0	48.6		ug/Kg		97	43 - 145	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		76 - 127
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		58 - 140
Toluene-d8 (Surr)	100		80 - 126

Lab Sample ID: LCSD 280-154981/4-A

Matrix: Solid

Analysis Batch: 155009

Client Sample	ID:	Lab	Control	Sample	Dup
---------------	-----	-----	---------	--------	-----

Prep Type: Total/NA **Prep Batch: 154981**

Analysis Baton: 100000							i icp	cp Baton: 104001		
	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Acetone	200	200		ug/Kg		100	65 - 150	8	28	
Benzene	50.0	49.5		ug/Kg		99	75 - 135	5	20	
Bromoform	50.0	53.0		ug/Kg		106	77 - 135	7	20	
Bromomethane	50.0	50.6		ug/Kg		101	52 - 135	6	22	
2-Butanone (MEK)	200	227		ug/Kg		113	45 - 177	3	32	
Carbon disulfide	50.0	42.8		ug/Kg		86	45 - 150	13	24	
Carbon tetrachloride	50.0	53.9		ug/Kg		108	69 - 138	4	20	
Chlorobenzene	50.0	50.3		ug/Kg		101	78 - 135	4	20	
Chlorobromomethane	50.0	52.0		ug/Kg		104	74 - 135	6	21	
Chlorodibromomethane	50.0	55.4		ug/Kg		111	77 - 135	6	20	
Chloroethane	50.0	50.7		ug/Kg		101	51 - 145	6	22	
Chloroform	50.0	51.8		ug/Kg		104	73 - 123	5	20	
Chloromethane	50.0	54.6		ug/Kg		109	41 - 138	8	25	
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	76 - 135	5	20	
cis-1,3-Dichloropropene	50.0	53.6		ug/Kg		107	71 - 135	5	20	
1,2-Dibromo-3-Chloropropane	50.0	59.2		ug/Kg		118	66 - 150	6	28	
1,2-Dibromoethane	50.0	52.2		ug/Kg		104	76 - 135	7	20	
1,2-Dichlorobenzene	50.0	52.1		ug/Kg		104	73 - 135	5	20	
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	69 - 135	5	20	
1,4-Dichlorobenzene	50.0	52.5		ug/Kg		105	73 - 135	4	22	
Dichlorobromomethane	50.0	54.8		ug/Kg		110	73 - 135	7	20	

TestAmerica Denver

Page 49 of 76

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-154981/4-A

Matrix: Solid

Analysis Batch: 155009

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 154981

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Dichlorodifluoromethane	50.0	42.0		ug/Kg		84	32 - 152	6	28
1,1-Dichloroethane	50.0	51.0		ug/Kg		102	70 - 135	5	20
1,2-Dichloroethane	50.0	52.5		ug/Kg		105	69 - 135	7	20
1,1-Dichloroethene	50.0	58.3		ug/Kg		117	79 - 135	6	20
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	72 - 121	6	20
Ethylbenzene	50.0	51.1		ug/Kg		102	73 - 125	5	20
2-Hexanone	200	185		ug/Kg		92	67 - 150	1	29
Isopropylbenzene	50.0	51.7		ug/Kg		103	74 - 137	5	20
Methylene Chloride	50.0	48.5		ug/Kg		97	76 - 136	6	21
4-Methyl-2-pentanone (MIBK)	200	200		ug/Kg		100	69 - 150	3	25
Methyl tert-butyl ether	50.0	52.4		ug/Kg		105	71 - 141	3	20
m-Xylene & p-Xylene	100	102		ug/Kg		102	77 - 135	5	20
o-Xylene	50.0	51.0		ug/Kg		102	75 - 135	6	20
Styrene	50.0	54.0		ug/Kg		108	76 - 135	4	20
1,1,2,2-Tetrachloroethane	50.0	54.8		ug/Kg		110	65 - 135	7	21
Tetrachloroethene	50.0	49.8		ug/Kg		100	76 - 135	5	20
Toluene	50.0	49.4		ug/Kg		99	77 - 122	4	20
trans-1,2-Dichloroethene	50.0	51.3		ug/Kg		103	77 - 135	4	20
trans-1,3-Dichloropropene	50.0	53.3		ug/Kg		107	71 - 135	4	20
1,2,3-Trichlorobenzene	50.0	51.7		ug/Kg		103	62 - 135	5	31
1,2,4-Trichlorobenzene	50.0	53.1		ug/Kg		106	65 - 135	4	26
1,1,1-Trichloroethane	50.0	52.8		ug/Kg		106	70 - 135	4	20
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	78 - 135	5	20
Trichloroethene	50.0	49.9		ug/Kg		100	77 - 135	5	20
Trichlorofluoromethane	50.0	51.1		ug/Kg		102	48 - 150	8	33
Vinyl chloride	50.0	52.9		ug/Kg		106	43 - 145	8	24

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	97		58 ₋ 140
Toluene-d8 (Surr)	100		80 - 126

Lab Sample ID: MB 280-154985/1-A

Matrix: Solid

Analysis Batch: 155051

Client Sample ID: Method Blank

Prep Batch: 154985

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	5.4	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Benzene	ND		5.0	0.47	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Bromoform	ND		5.0	0.23	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Bromomethane	ND		10	0.50	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		01/08/13 11:26	01/08/13 19:38	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154985/1-A

Matrix: Solid

Analysis Batch: 155051

Client Sample ID: Method Blank Prep Type: Total/NA **Prep Batch: 154985**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		10	0.89	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chloroform	ND		10	0.29	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chloromethane	ND		10	0.77	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Cyclohexane	ND		5.0	0.40	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,4-Dioxane	ND		500	56	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
2-Hexanone	ND		20	4.9	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Methyl acetate	ND		10	2.7	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Methylene Chloride	ND		5.0	1.6	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.3	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
o-Xylene	ND		2.5	0.61	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Styrene	ND		5.0	0.63	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Toluene	ND		5.0	0.69	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2,4-Trichlorobenzene	ND		5.0	0.73	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1,1-Trichloroethane	ND		5.0	0.52	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1,2-Trichloroethane	ND		5.0	0.88	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Trichloroethene	ND		5.0	0.23	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Trichlorofluoromethane	ND		10	1.0	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1,2-Trichlorotrifluoroethane	ND		20		ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Vinyl chloride	ND		5.0		ug/Kg		01/08/13 11:26	01/08/13 19:38	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 127	01/08/13 11:26	01/08/13 19:38	1
Dibromofluoromethane (Surr)	96		75 - 121	01/08/13 11:26	01/08/13 19:38	1
1,2-Dichloroethane-d4 (Surr)	89		58 - 140	01/08/13 11:26	01/08/13 19:38	1
Toluene-d8 (Surr)	101		80 - 126	01/08/13 11:26	01/08/13 19:38	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154985/3-A

Matrix: Solid

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154985

Analysis Batch: 155051	Smiles	1.00	LCS				ЯRec.	tch: 15498
Analyte	Spike Added		Qualifier	Unit	D	%Rec	%Rec.	
Acetone		226	Qualifier	ug/Kg		113	65 ₋ 150	
Benzene	50.0	46.9		ug/Kg ug/Kg		94	75 - 135	
Bromoform	50.0	49.3		ug/Kg ug/Kg		99	77 ₋ 135	
Bromomethane	50.0	50.9		ug/Kg		102	52 ₋ 135	
	200	229				114	45 - 177	
2-Butanone (MEK) Carbon disulfide	50.0	43.0		ug/Kg		86	45 - 177 45 - 150	
				ug/Kg				
Carbon tetrachloride	50.0	51.6		ug/Kg		103 97	69 - 138	
Chlorobromomethana	50.0	48.7		ug/Kg			78 ₋ 135	
Chlorodinary and the second state of the second	50.0	50.1		ug/Kg		100	74 - 135	
Chlorodibromomethane	50.0	51.8		ug/Kg		104	77 - 135	
Chloreform	50.0	52.6		ug/Kg		105	51 ₋ 145	
Chloroform	50.0	48.5		ug/Kg		97	73 - 123	
Chloromethane	50.0	52.6		ug/Kg		105	41 - 138	
cis-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	76 - 135	
cis-1,3-Dichloropropene	50.0	50.0		ug/Kg		100	71 - 135	
1,2-Dibromo-3-Chloropropane	50.0	53.8		ug/Kg		108	66 - 150	
1,2-Dibromoethane	50.0	49.0		ug/Kg		98	76 - 135	
1,2-Dichlorobenzene	50.0	48.4		ug/Kg		97	73 - 135	
1,3-Dichlorobenzene	50.0	48.5		ug/Kg		97	69 - 135	
1,4-Dichlorobenzene	50.0	49.1		ug/Kg		98	73 - 135	
Dichlorobromomethane	50.0	50.1		ug/Kg		100	73 - 135	
Dichlorodifluoromethane	50.0	43.6		ug/Kg		87	32 - 152	
1,1-Dichloroethane	50.0	47.7		ug/Kg		95	70 - 135	
1,2-Dichloroethane	50.0	47.2		ug/Kg		94	69 - 135	
1,1-Dichloroethene	50.0	55.3		ug/Kg		111	79 ₋ 135	
1,2-Dichloropropane	50.0	46.5		ug/Kg		93	72 - 121	
Ethylbenzene	50.0	49.5		ug/Kg		99	73 - 125	
2-Hexanone	200	194		ug/Kg		97	67 - 150	
Isopropylbenzene	50.0	48.3		ug/Kg		97	74 - 137	
Methylene Chloride	50.0	45.8		ug/Kg		92	76 - 136	
4-Methyl-2-pentanone (MIBK)	200	202		ug/Kg		101	69 - 150	
Methyl tert-butyl ether	50.0	50.1		ug/Kg		100	71 - 141	
m-Xylene & p-Xylene	100	98.6		ug/Kg		99	77 - 135	
o-Xylene	50.0	49.1		ug/Kg		98	75 ₋ 135	
Styrene	50.0	51.8		ug/Kg		104	76 ₋ 135	
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	65 ₋ 135	
Tetrachloroethene	50.0	49.8		ug/Kg		100	76 - 135	
Toluene	50.0	47.6		ug/Kg		95	77 - 122	
trans-1,2-Dichloroethene	50.0	50.1		ug/Kg		100	77 ₋ 135	
trans-1,3-Dichloropropene	50.0	51.5		ug/Kg		103	71 ₋ 135	
1,2,3-Trichlorobenzene	50.0	49.4		ug/Kg		99	62 - 135	
1,2,4-Trichlorobenzene	50.0	50.9		ug/Kg		102	65 - 135	
1,1,1-Trichloroethane	50.0	50.7		ug/Kg		101	70 - 135	
1,1,2-Trichloroethane	50.0	46.7		ug/Kg		93	78 ₋ 135	
Trichloroethene	50.0	48.2		ug/Kg		96	77 - 135	
Trichlorofluoromethane	50.0	52.8		ug/Kg		106	48 - 150	
Vinyl chloride	50.0	52.3		ug/Kg		105	43 - 145	

TestAmerica Denver

2

3

4

6

8

10

10

13

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154985/3-A

Lab Sample ID: LCSD 280-154985/4-A

Matrix: Solid

Analysis Batch: 155051

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 154985

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		76 - 127
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	92		58 - 140
Toluene-d8 (Surr)	99		80 - 126

Client Sample ID: Lab Control Sample Dup

10

Lab Sample ID. LOSD 200-13-303/4-A				Cile	iit Jaii	ipie ib.	Lab Contic	n Janipi	e Dup
Matrix: Solid							Prep T	ype: To	tal/NA
Analysis Batch: 155051							Prep	Batch: 1	54985
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	200	227		ug/Kg		113	65 - 150	1	28
Benzene	50.0	51.4		ug/Kg		103	75 - 135	9	20
Bromoform	50.0	57.9		ug/Kg		116	77 - 135	16	20
Bromomethane	50.0	48.8		ug/Kg		98	52 - 135	4	22
2-Butanone (MEK)	200	258		ug/Kg		129	45 - 177	12	32
Carbon disulfide	50.0	40.7		ug/Kg		81	45 - 150	6	24
Carbon tetrachloride	50.0	57.5		ug/Kg		115	69 - 138	11	20
Chlorobenzene	50.0	53.2		ug/Kg		106	78 - 135	9	20
Chlorobromomethane	50.0	55.7		ug/Kg		111	74 - 135	11	21
Chlorodibromomethane	50.0	59.1		ug/Kg		118	77 - 135	13	20
Chloroethane	50.0	48.4		ug/Kg		97	51 - 145	8	22
Chloroform	50.0	53.8		ug/Kg		108	73 - 123	10	20
Chloromethane	50.0	51.8		ug/Kg		104	41 - 138	2	25
cis-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	76 - 135	9	20
cis-1,3-Dichloropropene	50.0	55.4		ug/Kg		111	71 - 135	10	20
1,2-Dibromo-3-Chloropropane	50.0	68.0		ug/Kg		136	66 - 150	23	28
1,2-Dibromoethane	50.0	56.0		ug/Kg		112	76 - 135	13	20
1,2-Dichlorobenzene	50.0	54.0		ug/Kg		108	73 - 135	11	20
1,3-Dichlorobenzene	50.0	53.3		ug/Kg		107	69 - 135	9	20
1,4-Dichlorobenzene	50.0	53.9		ug/Kg		108	73 - 135	9	22
Dichlorobromomethane	50.0	57.3		ug/Kg		115	73 - 135	13	20
Dichlorodifluoromethane	50.0	41.8		ug/Kg		84	32 - 152	4	28
1,1-Dichloroethane	50.0	52.5		ug/Kg		105	70 - 135	10	20
1,2-Dichloroethane	50.0	54.1		ug/Kg		108	69 - 135	14	20
1,1-Dichloroethene	50.0	61.2		ug/Kg		122	79 - 135	10	20
1,2-Dichloropropane	50.0	51.4		ug/Kg		103	72 - 121	10	20
Ethylbenzene	50.0	54.1		ug/Kg		108	73 - 125	9	20
2-Hexanone	200	215		ug/Kg		108	67 _ 150	10	29
Isopropylbenzene	50.0	52.4		ug/Kg		105	74 - 137	8	20
Methylene Chloride	50.0	51.1		ug/Kg		102	76 - 136	11	21
4-Methyl-2-pentanone (MIBK)	200	227		ug/Kg		113	69 - 150	11	25
Methyl tert-butyl ether	50.0	56.6		ug/Kg		113	71 - 141	12	20
m-Xylene & p-Xylene	100	107		ug/Kg		107	77 - 135	8	20
o-Xylene	50.0	53.9		ug/Kg		108	75 - 135	9	20
Styrene	50.0	57.1		ug/Kg		114	76 - 135	10	20
1,1,2,2-Tetrachloroethane	50.0	57.5		ug/Kg		115	65 - 135	18	21
Tetrachloroethene	50.0	52.4		ug/Kg		105	76 - 135	5	20
Toluene	50.0	51.9		ug/Kg		104	77 - 122	9	20

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-154985/4-A

Matrix: Solid

Analysis Batch: 155051

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 154985

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
trans-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	77 - 135	7	20
trans-1,3-Dichloropropene	50.0	57.3		ug/Kg		115	71 - 135	11	20
1,2,3-Trichlorobenzene	50.0	55.7		ug/Kg		111	62 - 135	12	31
1,2,4-Trichlorobenzene	50.0	56.2		ug/Kg		112	65 - 135	10	26
1,1,1-Trichloroethane	50.0	55.2		ug/Kg		110	70 - 135	9	20
1,1,2-Trichloroethane	50.0	53.8		ug/Kg		108	78 - 135	14	20
Trichloroethene	50.0	52.2		ug/Kg		104	77 - 135	8	20
Trichlorofluoromethane	50.0	50.9		ug/Kg		102	48 - 150	4	33
Vinyl chloride	50.0	50.3		ug/Kg		101	43 - 145	4	24

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		76 - 127
Dibromofluoromethane (Surr)	102		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		58 - 140
Toluene-d8 (Surr)	103		80 - 126

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-154984/1-A

Matrix: Solid

Analysis Batch: 155098

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 154984

7 many ord Editorn 100000								op = atom	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		330	10	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Acenaphthylene	ND		330	17	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Anthracene	ND		330	17	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[a]anthracene	ND		330	20	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[a]pyrene	ND		330	20	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[b]fluoranthene	ND		330	26	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[g,h,i]perylene	ND		330	16	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[k]fluoranthene	ND		330	40	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Chrysene	ND		330	27	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Dibenz(a,h)anthracene	ND		330	19	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Fluoranthene	ND		330	36	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Fluorene	ND		330	18	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Indeno[1,2,3-cd]pyrene	ND		330	22	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
1-Methylnaphthalene	ND		330	11	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
2-Methylnaphthalene	ND		330	19	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Naphthalene	ND		330	31	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Phenanthrene	ND		330	17	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Pyrene	ND		330	12	ug/Kg		01/08/13 14:30	01/09/13 09:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		50 - 120	01/08/13 14:30	01/09/13 09:58	1
Nitrobenzene-d5	80		50 - 120	01/08/13 14:30	01/09/13 09:58	1
Terphenyl-d14	77		55 - 120	01/08/13 14:30	01/09/13 09:58	1

Client: CDM Smith, Inc.

Analysis Batch: 155098

Matrix: Solid

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Lab Sample ID: LCS 280-154984/2-A

TestAmerica Job ID: 280-37602-1

Client Sample ID: Lab Control Sample

Official Gampic ID.	Lab Control Campic
	Prep Type: Total/NA
	Prep Batch: 154984

	Spike	LCS L	CS			%Rec.	
Analyte	Added	Result Q	ualifier Unit	D %	Rec	Limits	
Acenaphthene	2670	2120	ug/Kg		79	60 - 120	
Acenaphthylene	2670	2230	ug/Kg		84	64 - 120	
Anthracene	2670	2290	ug/Kg		86	63 _ 120	
Benzo[a]anthracene	2670	2330	ug/Kg		87	65 _ 120	
Benzo[a]pyrene	2670	2110	ug/Kg		79	59 - 120	
Benzo[b]fluoranthene	2670	2420	ug/Kg		91	47 - 129	
Benzo[g,h,i]perylene	2670	2480	ug/Kg		93	55 - 126	
Benzo[k]fluoranthene	2670	2230	ug/Kg		84	48 - 130	
Chrysene	2670	2230	ug/Kg		84	64 - 120	
Dibenz(a,h)anthracene	2670	2470	ug/Kg		93	50 - 133	
Fluoranthene	2670	2390	ug/Kg		90	66 - 120	
Fluorene	2670	2190	ug/Kg		82	64 - 120	
Indeno[1,2,3-cd]pyrene	2670	2370	ug/Kg		89	63 _ 120	
1-Methylnaphthalene	2670	2110	ug/Kg		79	59 _ 120	
2-Methylnaphthalene	2670	2060	ug/Kg		77	57 - 120	
Naphthalene	2670	2100	ug/Kg		79	57 ₋ 120	
Phenanthrene	2670	2270	ug/Kg		85	64 - 120	
Pyrene	2670	2310	ug/Kg		87	64 - 120	

LCS LCS

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery Qualifier	Limits
2-Fluorobiphenyl	77	50 - 120
Nitrobenzene-d5	81	50 - 120
Ternhenyl-d14	87	55 120

Lab Sample ID: 280-37602-5 MS

Matrix: Solid

Analysis Batch: 155098

Client Same	יחו בור	0113.	SR3-5	CEN-SO
Ciletti Saitti	או אוע.	. บาเจ	.000-0	CLIN-30

Prep Type: Total/NA Prep Batch: 154984

Analysis Batom 100000									i icp De	10011. 104004
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthene	ND		2770	2080		ug/Kg	\$	75	60 - 120	
Acenaphthylene	ND		2770	2200		ug/Kg	₽	79	64 - 120	
Anthracene	ND		2770	2250		ug/Kg	₽	81	63 - 120	
Benzo[a]anthracene	ND		2770	2240		ug/Kg	₽	81	65 _ 120	
Benzo[a]pyrene	ND		2770	1970		ug/Kg	₽	71	59 - 120	
Benzo[b]fluoranthene	ND		2770	2220		ug/Kg	₽	80	47 - 129	
Benzo[g,h,i]perylene	ND		2770	2240		ug/Kg	₩	81	55 - 126	
Benzo[k]fluoranthene	ND		2770	1990		ug/Kg	₽	72	48 - 130	
Chrysene	ND		2770	2160		ug/Kg	₽	78	64 - 120	
Dibenz(a,h)anthracene	ND		2770	2320		ug/Kg	₩	83	50 - 133	
Fluoranthene	ND		2770	2290		ug/Kg	₽	83	66 - 120	
Fluorene	ND		2770	2160		ug/Kg	₽	78	64 - 120	
Indeno[1,2,3-cd]pyrene	ND		2770	2270		ug/Kg	₩	82	63 - 120	
1-Methylnaphthalene	ND		2770	2060		ug/Kg	₽	74	59 - 120	
2-Methylnaphthalene	ND		2770	2060		ug/Kg	₩	74	57 - 120	
Naphthalene	ND		2770	2030		ug/Kg	₩	73	57 - 120	
Phenanthrene	ND		2770	2170		ug/Kg	₩	78	64 - 120	
Pyrene	ND		2770	2220		ug/Kg	₩	80	64 - 120	

55 - 120

TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

MS MS

81

Lab Sample ID: 280-37602-5 MS

Matrix: Solid

Analysis Batch: 155098

Client: CDM Smith, Inc.

Client Sample ID: 0113-SB3-5CEN-SO

Prep Type: Total/NA

Prep Batch: 154984

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	73		50 - 120
Nitrobenzene-d5	76		50 - 120

Lab Sample ID: 280-37602-5 MSD

Matrix: Solid

Terphenyl-d14

Analysis Batch: 155098

Client Sample ID: 0113-SB3-5CEN-SO

Prep Type: Total/NA

Prep Batch: 154984

Allalysis Datcil. 100000									riepi	Dalcii. I	34304
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	ND		2760	2050		ug/Kg	*	74	60 - 120	2	30
Acenaphthylene	ND		2760	2130		ug/Kg	₩	77	64 - 120	4	30
Anthracene	ND		2760	2260		ug/Kg	₩	82	63 - 120	0	30
Benzo[a]anthracene	ND		2760	2230		ug/Kg	₩	81	65 - 120	0	30
Benzo[a]pyrene	ND		2760	1940		ug/Kg	₩	71	59 - 120	1	30
Benzo[b]fluoranthene	ND		2760	2200		ug/Kg	₩	80	47 - 129	1	44
Benzo[g,h,i]perylene	ND		2760	2230		ug/Kg	₩	81	55 - 126	0	31
Benzo[k]fluoranthene	ND		2760	1990		ug/Kg	₩	72	48 - 130	0	30
Chrysene	ND		2760	2170		ug/Kg	₩	79	64 - 120	0	35
Dibenz(a,h)anthracene	ND		2760	2280		ug/Kg	*	83	50 - 133	2	30
Fluoranthene	ND		2760	2260		ug/Kg	₩	82	66 - 120	2	30
Fluorene	ND		2760	2140		ug/Kg	₩	77	64 - 120	1	30
Indeno[1,2,3-cd]pyrene	ND		2760	2300		ug/Kg	*	84	63 - 120	1	30
1-Methylnaphthalene	ND		2760	1950		ug/Kg	₩	71	59 - 120	5	30
2-Methylnaphthalene	ND		2760	1900		ug/Kg	₽	69	57 - 120	8	30
Naphthalene	ND		2760	1830		ug/Kg	₽	66	57 - 120	11	30
Phenanthrene	ND		2760	2190		ug/Kg	₩	80	64 - 120	1	30
Pyrene	ND		2760	2240		ug/Kg	₽	81	64 _ 120	1	38

	MSD	MSD	
Surrogate	%Recovery	Limits	
2-Fluorobiphenyl	71		50 - 120
Nitrobenzene-d5	72		50 - 120
Terphenyl-d14	82		55 - 120

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

мв мв Result Qualifier

114

Lab Sample ID: MB 280-154982/3-A

Matrix: Solid

a,a,a-Trifluorotoluene

Analyte

Analysis Batch: 155006

Client Sample ID: Method Blank Prep Type: Total/NA **Prep Batch: 154982**

Analyzed

Dil Fac

GRO (C6-C10)	ND		1.2	0.33 mg/Kg	01/08/13 11:07	01/08/13 14:20	1
	МВ	MB					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac

77 - 123

RL

MDL Unit

D

Prepared

01/08/13 11:07 01/08/13 14:20

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 280-154982/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 155006

Client: CDM Smith, Inc.

Prep Type: Total/NA Prep Batch: 154982

%Rec.

10

Analyte Added Result Qualifier Unit %Rec GRO (C6-C10) 5.50 5.64 103 85 - 153 mg/Kg

Spike

LCS LCS

Surrogate %Recovery Qualifier Limits a,a,a-Trifluorotoluene 105 77 - 123

Lab Sample ID: LCSD 280-154982/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 155006 Prep Batch: 154982

LCS LCS

LCSD LCSD %Rec. RPD Spike Added Result Qualifier Unit %Rec Limits RPD Limit GRO (C6-C10) 5.50 6.40 mg/Kg 116 85 - 153 13

LCSD LCSD

Surrogate %Recovery Qualifier Limits 77 - 123 a,a,a-Trifluorotoluene 116

Lab Sample ID: 280-37602-2 MS Client Sample ID: 0113-SB2-2051ST-SO

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 155006 Prep Batch: 154982

Sample Sample Spike MS MS %Rec.

Analyte Result Qualifier Added Limits Result Qualifier Unit D %Rec GRO (C6-C10) 0.60 J 5.90 6.45 99 85 - 153 mg/Kg

MS MS

%Recovery Qualifier Limits Surrogate

77 - 123 a,a,a-Trifluorotoluene 107

Lab Sample ID: 280-37602-2 MSD Client Sample ID: 0113-SB2-2051ST-SO Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 155006

Prep Batch: 154982 Sample Sample Spike MSD MSD RPD Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec GRO (C6-C10) 0.60 J 5.91 6.64 mg/Kg ₩ 102 85 _ 153 30

MSD MSD

Surrogate %Recovery Qualifier Limits a,a,a-Trifluorotoluene 108 77 - 123

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 280-154977/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 155205

мв мв

Prep Type: Total/NA Prep Batch: 154977

Analyte RL MDL Unit Dil Fac Result Qualifier Prepared Analyzed DRO (C10-C28) ND 3.9 0.66 mg/Kg 01/08/13 12:20 01/09/13 10:01

49 - 115

LCS LCS

MS MS

MSD MSD

205

Result Qualifier

MDL Unit

mg/Kg

mg/Kg

mg/Kg

0.66

0.076

0.041

268 F

Result Qualifier

63.5

Result Qualifier

TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: MB 280-154977/1-A

Lab Sample ID: LCS 280-154977/2-A

Matrix: Solid

Surrogate

o-Terphenyl

Analysis Batch: 155205

Client: CDM Smith, Inc.

Client Sample ID: Method Blank

01/09/13 10:01

Client Sample ID: Lab Control Sample

%Rec.

Limits

Client Sample ID: 0113-SB1-2051ST-SO

%Rec.

Limits

56 - 115

Client Sample ID: 0113-SB1-2051ST-SO

%Rec.

Limits

56 - 115

53 - 115

01/08/13 12:20

%Rec

٩g

D

₩

D

77

D

%Rec

Prep Type: Total/NA

Prep Batch: 154977

Prep Type: Total/NA Prep Batch: 154977

Prep Type: Total/NA

Prep Batch: 154977

Prep Type: Total/NA

Prep Batch: 154977

RPD

27

RPD

Limit

Dil Fac

23

MR MR %Recovery Qualifier Limits Prepared Analyzed Dil Fac

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

Matrix: Solid

Analysis Batch: 155205

Analyte

DRO (C10-C28)

Surrogate o-Terphenyl

LCS LCS %Recovery 73

Limits 49 - 115

Qualifier

Qualifier

Sample Sample

Result

270

Spike

Added

64.6

Spike

Added

69.3

Spike

Added

68.0

Lab Sample ID: 280-37602-1 MS

Matrix: Solid

Analysis Batch: 155205

Analyte DRO (C10-C28)

Surrogate

o-Terphenyl

MS MS Qualifier %Recovery 86

I imits 49 - 115

Lab Sample ID: 280-37602-1 MSD

Matrix: Solid

Analysis Batch: 155205

Analyte DRO (C10-C28)

Surrogate o-Terphenyl

MSD MSD %Recovery Qualifier

Sample Sample

270

93

Result Qualifier

Limits 49 - 115

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-154986/1-A

Matrix: Solid

Analyte

Arsenic

Barium

Silver

Analysis Batch: 155264

Client Sample ID: Method Blank

Analyzed

01/09/13 17:05

01/09/13 17:05

01/09/13 17:05

01/09/13 17:05

Prep Type: Total/NA Prep Batch: 154986

MB MB

ND

Result Qualifier ND

1.0 Cadmium ND 0.50 ND Chromium 1.5 Lead ND Selenium ND

0.058 mg/Kg 0.80 mg/Kg 1.3 0.86 mg/Kg ND 1.0 0.16 mg/Kg

RL

2.0

01/09/13 08:00 01/09/13 17:05 01/09/13 08:00 01/09/13 17:05 01/09/13 08:00 01/09/13 17:05

Prepared

01/09/13 08:00

01/09/13 08:00

01/09/13 08:00

01/09/13 08:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-154986/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 155264 **Prep Batch: 154986**

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	100	97.0		mg/Kg		97	85 - 110	
Barium	200	199		mg/Kg		99	87 - 112	
Cadmium	10.0	9.80		mg/Kg		98	87 - 110	
Chromium	20.0	19.6		mg/Kg		98	84 - 114	
Lead	50.0	49.4		mg/Kg		99	86 - 110	
Selenium	200	194		mg/Kg		97	83 - 110	
Silver	5.00	5.04		mg/Kg		101	87 - 114	

Lab Sample ID: 280-37602-1 MS Client Sample ID: 0113-SB1-2051ST-SO

Matrix: Solid

Analysis Batch: 155264

Client: CDM Smith, Inc.

Prep Type: Total/NA

102

75 - 141

Client Sample ID: Lab Control Sample

Prep Batch: 154986

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	8.4		91.5	92.9		mg/Kg	<u></u>	92	76 - 111
Barium	240		183	457		mg/Kg	₩	117	52 _ 159
Cadmium	0.37	J	9.15	8.61		mg/Kg	₩	90	40 - 130
Chromium	11		18.3	30.7		mg/Kg	\$	107	70 - 200
Lead	27		45.7	72.1		mg/Kg	₩	98	70 - 200
Selenium	ND		183	161		mg/Kg	₩	88	76 - 104
Silver	ND		4.57	4.45		mg/Kg	₩	97	75 - 141

Lab Sample ID: 280-37602-1 MSD Client Sample ID: 0113-SB1-2051ST-SO

Matrix: Solid

								Prep E	3atch: 1	54986
Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
8.4		89.2	91.8		mg/Kg	<u> </u>	93	76 - 111	1	20
240		178	443		mg/Kg	₽	113	52 - 159	3	20
0.37	J	8.92	8.63		mg/Kg	₽	93	40 - 130	0	20
11		17.8	28.9		mg/Kg	\$	100	70 - 200	6	20
27		44.6	65.2		mg/Kg	₽	85	70 - 200	10	20
ND		178	159		mg/Kg	₽	89	76 - 104	1	20
	Result 8.4 240 0.37 11 27	240 0.37 J 11 27	Result Qualifier Added 8.4 89.2 240 178 0.37 J 8.92 11 17.8 27 44.6	Result Qualifier Added Result 8.4 89.2 91.8 240 178 443 0.37 J 8.92 8.63 11 17.8 28.9 27 44.6 65.2	Result Qualifier Added Result Qualifier 8.4 89.2 91.8 240 178 443 0.37 J 8.92 8.63 11 17.8 28.9 27 44.6 65.2	Result Qualifier Added Result Qualifier Unit 8.4 89.2 91.8 mg/Kg 240 178 443 mg/Kg 0.37 J 8.92 8.63 mg/Kg 11 17.8 28.9 mg/Kg 27 44.6 65.2 mg/Kg	Result Qualifier Added Result Qualifier Unit D 8.4 89.2 91.8 mg/Kg ** 240 178 443 mg/Kg ** 0.37 J 8.92 8.63 mg/Kg ** 11 17.8 28.9 mg/Kg ** 27 44.6 65.2 mg/Kg **	Result Qualifier Added Result Qualifier Unit D %Rec 8.4 89.2 91.8 mg/Kg \$\frac{1}{2}\$ 93 240 178 443 mg/Kg \$\frac{1}{2}\$ 113 0.37 J 8.92 8.63 mg/Kg \$\frac{1}{2}\$ 93 11 17.8 28.9 mg/Kg \$\frac{1}{2}\$ 100 27 44.6 65.2 mg/Kg \$\frac{1}{2}\$ 85	Sample Result Sample Qualifier Spike Added Result MSD Qualifier Unit Unit Unit Unit Unit Unit Unit Unit	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD 8.4 89.2 91.8 mg/Kg \$\frac{10}{2}\$ 93 76 - 111 1 240 178 443 mg/Kg \$\frac{11}{2}\$ 113 52 - 159 3 0.37 J 8.92 8.63 mg/Kg \$\frac{10}{2}\$ 40 - 130 0 11 17.8 28.9 mg/Kg \$\frac{10}{2}\$ 70 - 200 6 27 44.6 65.2 mg/Kg \$\frac{8}{2}\$ 70 - 200 10

4.57

mg/Kg

Method: 7471A - Mercury (CVAA)

ND

Lab Sample ID: MB 280-154989/1-A Client Sample ID: Method Blank Prep Type: Total/NA

4.46

Matrix: Solid

Silver

Analysis Batch: 155101

Prep Batch: 154989 мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

01/08/13 13:25 0.017 Mercury ND 0.0055 mg/Kg 01/08/13 15:05

Lab Sample ID: LCS 280-154989/2-A

Matrix: Solid

Analysis Batch: 155101							Prep	Batch: 154989
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	0.417	0.383		mg/Kg		92	87 - 111	

TestAmerica Denver

Prep Type: Total/NA

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-37602-1 MS Client Sample ID: 0113-SB1-2051ST-SO **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 155101

Prep Batch: 154989

Sample Sample Spike MS MS Result Qualifier Added Analyte Result Qualifier D Limits Unit %Rec ₩ 0.065 0.461 96 87 - 111 Mercury 0.506 mg/Kg

Lab Sample ID: 280-37602-1 MSD

Matrix: Solid

Analysis Batch: 155101

Client Sample ID: 0113-SB1-2051ST-SO Prep Type: Total/NA

Prep Batch: 154989

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Limit Result Qualifier Unit Limits RPD mg/Kg Mercury 0.065 0.405 0.384 F 87 - 111 20

Method: Moisture - Percent Moisture

Lab Sample ID: 280-37602-1 DU Client Sample ID: 0113-SB1-2051ST-SO **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 154988

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit Limit Percent Moisture 6.7 % 6.5 20

10

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

GC/MS VOA

Prep Batch: 154981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	5035	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	5035	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	5035	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	5035	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	5035	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	5035	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	5035	
LCS 280-154981/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-154981/4-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 280-154981/1-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 154985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	5035	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	5035	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	5035	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	5035	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	5035	
LCS 280-154985/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-154985/4-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 280-154985/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 155009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	8260B	154981
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	8260B	154981
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	8260B	154981
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	8260B	154981
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	8260B	154981
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	8260B	154981
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	8260B	154981
LCS 280-154981/3-A	Lab Control Sample	Total/NA	Solid	8260B	154981
LCSD 280-154981/4-A	Lab Control Sample Dup	Total/NA	Solid	8260B	154981
MB 280-154981/1-A	Method Blank	Total/NA	Solid	8260B	154981

Analysis Batch: 155051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	8260B	154985
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	8260B	154985
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	8260B	154985
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	8260B	154985
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	8260B	154985
LCS 280-154985/3-A	Lab Control Sample	Total/NA	Solid	8260B	154985
LCSD 280-154985/4-A	Lab Control Sample Dup	Total/NA	Solid	8260B	154985
MB 280-154985/1-A	Method Blank	Total/NA	Solid	8260B	154985

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

GC/MS Semi VOA

Prep Batch: 154984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	3550C	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	3550C	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	3550C	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	3550C	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	3550C	
280-37602-5 MS	0113-SB3-5CEN-SO	Total/NA	Solid	3550C	
280-37602-5 MSD	0113-SB3-5CEN-SO	Total/NA	Solid	3550C	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	3550C	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	3550C	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	3550C	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	3550C	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	3550C	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	3550C	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	3550C	
LCS 280-154984/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 280-154984/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 155098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-5 MS	0113-SB3-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-5 MSD	0113-SB3-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	8270C	154984
LCS 280-154984/2-A	Lab Control Sample	Total/NA	Solid	8270C	154984
MB 280-154984/1-A	Method Blank	Total/NA	Solid	8270C	154984

GC VOA

Prep Batch: 154982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	5030B	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	5030B	
280-37602-2 MS	0113-SB2-2051ST-SO	Total/NA	Solid	5030B	
280-37602-2 MSD	0113-SB2-2051ST-SO	Total/NA	Solid	5030B	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	5030B	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	5030B	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	5030B	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	5030B	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	5030B	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	5030B	

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

GC VOA (Continued)

Prep Batch: 154982 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	5030B	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	5030B	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	5030B	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	5030B	
LCS 280-154982/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 280-154982/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 280-154982/3-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 155006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-2 MS	0113-SB2-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-2 MSD	0113-SB2-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	8015C	154982
LCS 280-154982/1-A	Lab Control Sample	Total/NA	Solid	8015C	154982
LCSD 280-154982/2-A	Lab Control Sample Dup	Total/NA	Solid	8015C	154982
MB 280-154982/3-A	Method Blank	Total/NA	Solid	8015C	154982

GC Semi VOA

Prep Batch: 154977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	3546	_
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	3546	
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	3546	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	3546	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	3546	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	3546	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	3546	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	3546	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	3546	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	3546	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	3546	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	3546	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	3546	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	3546	
LCS 280-154977/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-154977/1-A	Method Blank	Total/NA	Solid	3546	

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

GC Semi VOA (Continued)

Analysis Batch: 155205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	8015C	154977
LCS 280-154977/2-A	Lab Control Sample	Total/NA	Solid	8015C	154977
MB 280-154977/1-A	Method Blank	Total/NA	Solid	8015C	154977

Metals

Prep Batch: 154986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	3050B	_
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	3050B	
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	3050B	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	3050B	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	3050B	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	3050B	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	3050B	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	3050B	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	3050B	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	3050B	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	3050B	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	3050B	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	3050B	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	3050B	
LCS 280-154986/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-154986/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 154989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	7471A	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	7471A	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	7471A	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	7471A	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	7471A	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	7471A	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	7471A	

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Metals (Continued)

Prep Batch: 154989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	7471A	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	7471A	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	7471A	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	7471A	
LCS 280-154989/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-154989/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 155101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	7471A	154989
LCS 280-154989/2-A	Lab Control Sample	Total/NA	Solid	7471A	154989
MB 280-154989/1-A	Method Blank	Total/NA	Solid	7471A	154989

Analysis Batch: 155264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	6010B	154986
LCS 280-154986/2-A	Lab Control Sample	Total/NA	Solid	6010B	154986
MB 280-154986/1-A	Method Blank	Total/NA	Solid	6010B	154986

General Chemistry

Analysis Batch: 154988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	Moisture	_

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

General Chemistry (Continued)

Analysis Batch: 154988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1 DU	0113-SB1-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	Moisture	

3

4

5

8

9

__

13

14

2

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Lab Sample ID: 280-37602-1

Matrix: Solid
Percent Solids: 93.5

Client Sample ID: 0113-SB1-2051ST-SO

Date Collected: 01/06/13 09:30 Date Received: 01/08/13 09:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.127 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 14:45	LMH	TAL DEN
Total/NA	Prep	3550C			30.3 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		5			155098	01/09/13 10:39	DCK	TAL DEN
Total/NA	Prep	5030B			10.06 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 14:50	TEM	TAL DEN
Total/NA	Prep	3546			30.0 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 10:50	AMP	TAL DEN
Total/NA	Prep	7471A			0.65 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:10	NF	TAL DEN
Total/NA	Prep	3050B			1.11 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:10	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB2-2051ST-SO

Lab Sample ID: 280-37602-2

 Date Collected: 01/06/13 10:25
 Matrix: Solid

 Date Received: 01/08/13 09:00
 Percent Solids: 92.3

ate Received	: 01/08/13 09:0	JU							Percent	30110S: 92.3
=	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.594 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 15:45	LMH	TAL DEN
Total/NA	Prep	3550C			30.5 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		5			155098	01/09/13 11:00	DCK	TAL DEN
Total/NA	Prep	5030B			10.00 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 15:19	TEM	TAL DEN
Total/NA	Prep	3546			30.8 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 12:03	AMP	TAL DEN
Total/NA	Prep	7471A			0.71 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:17	NF	TAL DEN
Total/NA	Prep	3050B			1.09 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:19	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB3-2051ST-SO

Lab Sample ID: 280-37602-3

Date Collected: 01/06/13 11:20 Matrix: Solid
Date Received: 01/08/13 09:00 Percent Solids: 87.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.912 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 16:04	LMH	TAL DEN
Total/NA	Prep	3550C			30.5 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		5			155098	01/09/13 11:20	DCK	TAL DEN
Total/NA	Prep	5030B			10.03 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN

Lab Chronicle

Client: CDM Smith, Inc.

Date Collected: 01/06/13 11:20

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB3-2051ST-SO

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-3

Matrix: Solid Percent Solids: 87.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1			155006	01/08/13 16:48	TEM	TAL DEN
Total/NA	Prep	3546			30.4 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 12:28	AMP	TAL DEN
Total/NA	Prep	7471A			0.54 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:24	NF	TAL DEN
Total/NA	Prep	3050B			1.19 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:22	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB4-2051ST-SO

Date Collected: 01/06/13 12:15 Date Received: 01/08/13 09:00

Lab Sample ID: 280-37602-4

Matrix: Solid Percent Solids: 95.2

Jale Neceiveu	. 0 1/00/13 09.0	<i>,</i>							reitein	3011us. 33.2
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.011 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 16:23	LMH	TAL DEN
Total/NA	Prep	3550C			31.7 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		10			155098	01/09/13 11:41	DCK	TAL DEN
Total/NA	Prep	5030B			10.10 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 17:17	TEM	TAL DEN
Total/NA	Prep	3546			30.1 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 12:52	AMP	TAL DEN
Total/NA	Prep	7471A			0.54 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:26	NF	TAL DEN
Total/NA	Prep	3050B			1.12 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:33	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN
_										

Client Sample ID: 0113-SB3-5CEN-SO

Date Collected: 01/06/13 15:35 Date Received: 01/08/13 09:00

Lab Sample ID: 280-37602-5 Matrix: Solid

Percent Solids: 92.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.876 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 16:42	LMH	TAL DEN
Total/NA	Prep	3550C			31.6 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 12:22	DCK	TAL DEN
Total/NA	Prep	5030B			10.07 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 17:47	TEM	TAL DEN
Total/NA	Prep	3546			32.3 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 13:17	AMP	TAL DEN
Total/NA	Prep	7471A			0.49 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:28	NF	TAL DEN

TestAmerica Denver

Page 68 of 76

Lab Chronicle

Client: CDM Smith, Inc.

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-5

. Matrix: Solid Percent Solids: 92.2

Client Sample ID: 0113-SB3-5CEN-SO

Date Collected: 01/06/13 15:35

Lab Sam

Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 3050B 1.15 g 100 mL 154986 01/09/13 08:00 RC TAL DEN Total/NA 6010B TAL DEN 1 155264 01/09/13 17:36 JKH Analysis Total/NA Analysis Moisture 1 154988 01/08/13 11:33 AFB TAL DEN

Client Sample ID: 0113-SB4-5CEN-SO

Lab Sample ID: 280-37602-6

Date Collected: 01/06/13 16:10

Date Received: 01/08/13 09:00

Matrix: Solid
Percent Solids: 93.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.737 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 17:01	LMH	TAL DEN
Total/NA	Prep	3550C			30.5 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 13:24	DCK	TAL DEN
Total/NA	Prep	5030B			10.04 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 18:46	TEM	TAL DEN
Total/NA	Prep	3546			32.2 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 13:41	AMP	TAL DEN
Total/NA	Prep	7471A			0.57 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:31	NF	TAL DEN
Total/NA	Prep	3050B			1.11 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:39	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB6-5CEN-SO Lab Sample ID: 280-37602-7

Date Collected: 01/06/13 16:50 Matrix: Solid
Date Received: 01/08/13 09:00 Percent Solids: 93.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.946 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 17:20	LMH	TAL DEN
Total/NA	Prep	3550C			30.1 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 13:45	DCK	TAL DEN
Total/NA	Prep	5030B			10.02 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 19:15	TEM	TAL DEN
Total/NA	Prep	3546			30.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 14:06	AMP	TAL DEN
Total/NA	Prep	7471A			0.51 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:33	NF	TAL DEN
Total/NA	Prep	3050B			1.19 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:41	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-5CEN-SO

Date Collected: 01/06/13 17:35 Date Received: 01/08/13 09:00 Lab Sample ID: 280-37602-8

Matrix: Solid
Percent Solids: 93.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.312 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/08/13 19:57	AD	TAL DEN
Total/NA	Prep	3550C			32.0 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 14:06	DCK	TAL DEN
Total/NA	Prep	5030B			10.01 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 19:45	TEM	TAL DEN
Total/NA	Prep	3546			31.8 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 14:31	AMP	TAL DEN
Total/NA	Prep	7471A			0.61 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:35	NF	TAL DEN
Total/NA	Prep	3050B			1.07 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:44	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB6-2051ST-SO

Date Collected: 01/06/13 12:55 Date Received: 01/08/13 09:00 Lab Sample ID: 280-37602-9

Matrix: Solid Percent Solids: 94.7

ato itocorroa									. 0.00	0011401 0 11
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.229 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/08/13 20:17	AD	TAL DEN
Total/NA	Prep	3550C			32.3 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		5			155098	01/09/13 12:02	DCK	TAL DEN
Total/NA	Prep	5030B			10.00 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 20:14	TEM	TAL DEN
Total/NA	Prep	3546			30.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 14:56	AMP	TAL DEN
Total/NA	Prep	7471A			0.59 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:42	NF	TAL DEN
Total/NA	Prep	3050B			1.18 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:46	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN
•										

Client Sample ID: 0113-SB5-2051ST-SO

Date Collected: 01/06/13 13:30 Date Received: 01/08/13 09:00 Lab Sample ID: 280-37602-10

Matrix: Solid Percent Solids: 93.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.651 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/08/13 20:36	AD	TAL DEN
Total/NA	Prep	3550C			30.3 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 14:27	DCK	TAL DEN
Total/NA	Prep	5030B			10.07 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN

TestAmerica Denver

Page 70 of 76

3

4

<u>၁</u>

3

11

13

Lab Chronicle

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-2051ST-SO

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-10

Matrix: Solid

Date Collected: 01/06/13 13:30 Percent Solids: 93.6 Date Received: 01/08/13 09:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1			155006	01/08/13 20:44	TEM	TAL DEN
Total/NA	Prep	3546			31.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 15:20	AMP	TAL DEN
Total/NA	Prep	7471A			0.62 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:45	NF	TAL DEN
Total/NA	Prep	3050B			1.04 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:49	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB1-5CEN-SO

Lab Sample ID: 280-37602-11 Date Collected: 01/06/13 14:15 Date Received: 01/08/13 09:00

Date Received:	01/08/13 09:0	0							Percent	Solids: 94.4
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.860 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/09/13 01:11	AD	TAL DEN
Total/NA	Prep	3550C			31.4 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 14:47	DCK	TAL DEN
Total/NA	Prep	5030B			10.00 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 21:13	TEM	TAL DEN
Total/NA	Prep	3546			31.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 15:45	AMP	TAL DEN
Total/NA	Prep	7471A			0.65 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:47	NF	TAL DEN
Total/NA	Prep	3050B			1.10 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:51	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB2-5CEN-SO

Date Collected: 01/06/13 14:50 Matrix: Solid Date Received: 01/08/13 09:00 Percent Solids: 93.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.642 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/09/13 01:30	AD	TAL DEN
Total/NA	Prep	3550C			30.3 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 15:08	DCK	TAL DEN
Total/NA	Prep	5030B			10.07 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 21:43	TEM	TAL DEN
Total/NA	Prep	3546			31.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 16:20	AMP	TAL DEN
Total/NA	Prep	7471A			0.67 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:49	NF	TAL DEN

TestAmerica Denver

Lab Sample ID: 280-37602-12

Page 71 of 76

Matrix: Solid

Lab Chronicle

Client: CDM Smith, Inc.

Date Collected: 01/06/13 14:50

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB2-5CEN-SO

Analysis

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-12

01/08/13 11:33 AFB

Matrix: Solid

Percent Solids: 93.6

TAL DEN

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.12 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:54	JKH	TAL DEN

154988

1

Laboratory References:

Total/NA

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Moisture

Ę

5

7

8

10

11

13

14

Temperature on Receipt 5.4 FP Sampler ID

TestAmerica

in Hal analyted results for additional analysis Special Instructions/ Conditions of Receipt 862 Etta Sample posite receipted (A fee may be assessed if samples are retained (Archive For Call & O'Months longer than 1 month) 51/20/10 THE LEADER IN ENVIRONMENTAL TESTING Analysis (Attach list if more space is needed) Lab Number 26 291 CRO/DRO) HT QC Requirements (Specify) \oAnZ HO₅M Disposal By Lab 1. Received By

Fed CX
2. Received By Containers & Preservatives HOBN 312-285-7737 3. Received By That today ЮН Telephone Number (Area Code)/Fax Number €ONH Lab Contact Drinking Water? Yes □ No 🕅 John Gaby 458O4 Return To Client 1260 Sample Disposal llo8 Time Carrier/Waybill Number Matrix pag Project Manager snoenby Site Contact IJ∀ Unknown Other Date 10 17 Seas Time 833 ☐ 14 Days ☐ 21 Days 16/13 ☐ Poison B Mindt (RENTALINFR, IMAGENELMI) Date Zip Code 5870 (Suite 27 city of Minot/COM Smith (Containers for each sample may be combined on one line) Skin Irritant 0113-5BI-20515T-50 6113-583-20515T-50 Sample I.D. No. and Description 0113-582-20515T-50 0113-5B4-26515T-50 7 Days 1600 and Am. SW ☐ Flammable Contract/Purchase Order/Quote No. Project Name and Location (State) ☐ 48 Hours Possible Hazard Identification Turn Around Time Required Minot 1. Relinquished By Relinquished By Relinquished By X Non-Hazard 7AL-4124-280 (0508) 24 Hours Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Sampler ID Temperature on Receipt 5.2 M. TestAmerica

Chain of	Temperature	on Receipt	De Signal	Temperature on Receipt 5.2 46	
TAL-4124-280 (05:08)	Drinking Water? Yes □		NOX 1/8/1/THE	No 文 (人名) THE LEADER IN ENVIRONMENTAL TESTING	
Client City of Miney / CDM Smith	Project Manager	John Grabs	Sev	Date 01/01/13	Chain of Custody Number 170087
1600 2001 Rive, SW, Swite 3	Telephone Numi	Telephone Number (Area Code)/Fax Number	ax Number	Lab Number	Page of
City State Zip Code		87	Lab Contact Kak Yedes	Analysis (Attach list if more space is needed)	
coation (State) (REVIALINFR, IM)	Carrier/Waybill	Number			Special Instructions/
Contract/Purchase Order/Quote No.		Matrix	Containers & Preservatives	(CBR	Conditions of Receipt
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	te Time	Soil Soil	kossh Hosh Hosh Hosh Hosh	805 1774 1784 1784 1784 1784 1784 1784 1784	
0113-583-5CEN-50 16/13	53	, ,		XXXXX	Sez extra sample
0113-584-5CFW-SO 1/6/13		x		XXXXXX	will be held at lab
0113-5BG-5CEN-SO 1/6,	13 1650	λ		メメメメスメ	for additional analysis
0113-5B5-5CEN-50 1/6/	13 1735	X		××××××××××××××××××××××××××××××××××××××	peding receipt of
					Inthel analytical resoults
)
			į		
Possible Hazard Identification Natural Loyand Poison B	San	Sample Disposal Return To Client	N Disposal By Lab	Sez Extra anyly (A fee may b A Archive For Cail 3. Months, tonger than it	(A fee may be assessed if samples are refained longer than 1 month)
Time Required			Spe		
48 Hours 1 / Days 14 Days	Date Date	7 Time	1. Received By		Date Time
2. Relinquished By 1 - Sworl VA	Date Comment	JE.	2. Received By	Many B. M.	Date Time 1/8//3 0900
3. Relinquished By	Date	Time	3. Received By		Date Time

Comments

| \$62 CX+1x 01 | (A fee may be assessed if samples are retained | X Archive For (x) | 2, 6 Months longer than 1 month) **TestAmerica** THE LEADER IN ENVIRONMENTAL TESTING 01/67/13 Analysis (Attach list if more space is needed) Lab Number 201 Hd1 812/31/8 (690/01/3) QC Requirements (Specify) \oAnZ HO∌V Disposal By Lab Containers & Preservatives НОвИ Kae Yoder

EONH ⊅OSZH

Hos

pəş noenby

Time

Date

Sample I.D. No. and Description (Containers for each sample may be combined on one line)

0113-5BG-205 1ST-50 0113-585-205157-50

1330 1055

1415 1450

1/6/13

16/13

0113-5B2-5CEN-50 6113-5B1-5CEN-50

Matrix

her additional analysis

nithal analythal perdia recipt

will be held at lab

Special Instructions/ Conditions of Receipt

Chain of Custody Number

Page.

312-786-737

Carrier/Waybill Number

Minet (RENTALINFR, IMACINELMI)

Project Name and Location (State)

Site Contact

State Zip Code

ND 5876

Address and Ave, SW Suite27

Client City of Minet/COM Smith

Custody Record

Chain of

Telephone Number (Area Code)/Fax Number

Project Manager John Grals

Drinking Water? Yes □ No)

 Received By 2. Received By 3. Received By 1200 Other. Date 21 Days 14 Days 🗌 7 Days ☐ 48 Hours 1. Relinquished By (2. Relinquished By (3. 3. Relinquished By

Unknown | Return To Client

☐ Poison B

Skin Initant

| Flammable

X 24 Hours

Possible Hazard Identification Non-Hazard Flar
Turn Around Time Required DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Comments

Page 75 of 76

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 280-37602-1

Login Number: 37602 List Source: TestAmerica Denver

List Number: 1

Creator: Bindel, Aaron M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ENVIRONMENTAL HEALTH SECTION
Gold Seal Center, 918 E. Divide Ave.
Bismarck, ND 58501-1947
701.328.5200 (fax)
www.ndhealth.gov

File: Hazardous Waste Correspondence - Consultant Request

February 11, 2013

John Grebs CDM Smith 1600 2nd Ave. SW - Suite 27 Minot, ND 587801

Dear Mr. Grebs:

This letter is written regarding a Limited Phase II Environmental Site Assessment Report dated January 28, 2013, conducted at 5 Central Avenue West, Minot, North Dakota.

Six soil borings were completed at the site to a depth of approximately eight (8) feet and soil samples collected for analysis. Groundwater was not encountered at any of the six soil borings. The analytical results for the RCRA eight metals indicated naturally occurring concentrations. Naturally occurring arsenic in North Dakota soils generally exceeds EPA's residential and industrial regional screening levels, as indicated by the analysis results of these soil samples. Total petroleum hydrocarbons-diesel range organics were detected in four borings at low parts per million; well below any state action levels. Three polyaromatic hydrocarbons were detected in two borings in the low parts per billion range. Volatile organic compounds were detected in two soil borings; again in the low parts per billion range. With the exception of the naturally occurring arsenic, all contaminants detected were below any state action levels or EPA regional screening levels for residential or industrial soils.

Based on this Phase II Environmental Site Assessment, the Department concurs with your recommendation of no further action required. Should the Department become aware of new information, or site condition's change, additional investigation or remediation could be required.

Should you have any questions regarding this letter, please feel free to contact me.

Sincerely.

Curtis L. Erickson, Manager Hazardous Waste Program

Division of Waste Management

CLE:lk

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

City of Minot

5 Central Avenue West Minot, North Dakota

> Community Development Block Grant Disaster Recovery Management Services

January 2013





Limited Phase II Environmental Site Assessment

5 Central Avenue West Minot, North Dakota

January 28, 2013

Prepared for:
City of Minot
515 2nd Avenue SW
Minot, North Dakota 58702

Prepared by:
CDM Smith Inc.
1600 2nd Avenue SW, Suite 27
Minot, North Dakota 58701



Table of Contents

Executive S	Summary	ES-1
Section 1	Introduction	1-1
Section 2	Site Location and Geologic Setting	2-1
Section 3	Summary of Phase I Assessment	3-1
Section 4	Summary of Limited Phase II Assessment	4-1
Section 5	Results	5-1
	RCRA 8 Metals	5-1
	PAHs	5-1
	TPHs	5-2
	VOCs	5-2
	Percent Moisture	5-2
Section 6	Discussion	6-1
	6.1 Primary Contaminants	6-1
	6.2 Extent of Contamination	
	6.3 Sources of Observed Contamination	6-1
	RCRA 8 Metals	6-1
	PAHs	6-1
	TPHs	6-1
	VOCs	6-1
Section 7	Conclusions and Recommendations	7-1
	7.1 Geology and Hydrogeology	7-1
	7.2 Extent of Contamination	
	7.3 Recommendations	7-1
Section 8	References	8-1

List of Figures

Figure 1. Site Location Map Figure 2. Soil Boring Locations

List of Tables and Exhibits

Table 1. Analytical Results



Appendices

Appendix A Boring Logs

Appendix B Field Notes and Photo Log Appendix C Analytical Data Report

Acronyms

% Percent

AET American Engineering Testing, Inc.

bgs Below ground surface

CDM Smith CDM Smith Inc.

DRO Diesel range organics

EPA U.S. Environmental Protection Agency

ESA Environmental Site Assessment

GRO Gasoline range organics

LUST Leaking underground storage tank

mg/kg Milligrams per kilogram

PAH Polycyclic aromatic hydrocarbons

PID Photoionization detector

ppm Parts per million

REC Recognized environmental concern

RCRA Resource Conservation and Recovery Act

RSL Regional Screening Levels

Site 5 Central Avenue West, Minot, North Dakota

SOW Scope of Work

TPH Total petroleum hydrocarbons

TriMedia Environmental and Engineering Services, LLC

μg/kg Micrograms per kilogram

USCS Unified Soil Classification System

USGS U.S. Geological Survey

UST Underground storage tank
VOC Volatile organic compounds



Executive Summary

This document presents procedures and protocols used during the completion of a Section 128 (a) – Limited Phase II Environmental Site Assessment (ESA) to determine the presence of environmental concerns identified in the Phase I ESA at 5 Central Avenue West, Minot, North Dakota (Site). The Site is currently operated as a surface parking lot and will be redeveloped as a three-story parking garage with the possible addition of apartments on top at a later date.

CDM Smith Inc. (CDM Smith) conducted this work as part of the agreement with the City of Minot for Community Development Block Grant Disaster Recovery Management Services. The work was conducted in accordance with the 5 Central Avenue West Phase II ESA Scope of Work (SOW) dated December 18, 2012, except where noted. Field work at the Site was coordinated with field investigations conducted for a separate limited Phase II ESA investigation at 205 1st Street SW, Minot, North Dakota for the same client.

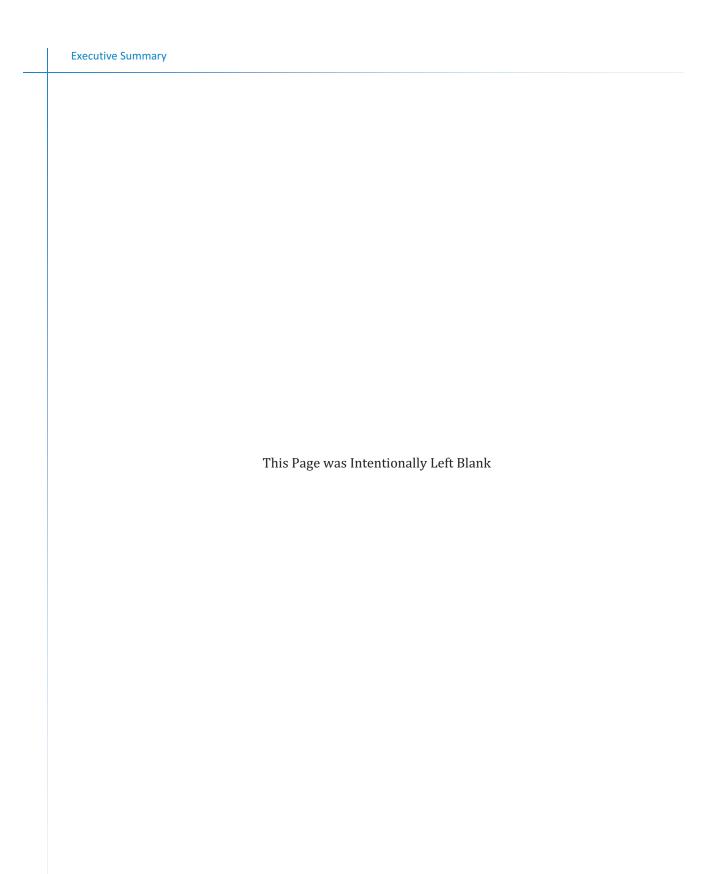
The purpose of the limited Phase II ESA was to evaluate the recognized environmental concerns (RECs) outlined in the Phase I ESA report. The RECs included potential onsite sources associated with two former commercial printing shops.

The underlying geology of the area consists of Cenozoic Era Tertiary System with Paleocene Series. A review of surface geology of Minot indicates that the Site is located on Quaternary age river terrace deposits which consist of planar bedded sands and gravels with abundant cobbles and boulders (Anderson 2006). Soil borings from this assessment show that sand with gravel is located from the ground surface (beneath the asphalt) to approximately 8 feet below ground surface (bgs). Occasionally the sands became clayey, and two boreholes were noted to contain clay with sand at varying depths in addition to sand with gravel. Trace cobbles or boulders were also encountered. Groundwater was not encountered in any boreholes.

Six locations were sampled for subsurface soil. The results indicated no or minor impacts to soils from Resource Conservation and Recovery Act (RCRA) metals (arsenic). Arsenic detections are most likely naturally occurring and were widespread throughout the Site at similar concentrations. The other detected analytes included polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH) – diesel range organics (DRO), and volatile organic compounds (VOC). All of these analytes were below the U.S. Environmental Protection Agency's (EPA) Regional Screening Levels (RSL) for residential and industrial soils or the actionable limit of 100 parts per million (ppm) TPH for the underground storage tank (UST)/leaking underground storage tank (LUST) program, which is the assumed screening criterion to be used as there is no RSL for TPH.

Based on the information obtained during this limited Phase II ESA, it does not appear that the detected analytes are a significant indicator of contamination. The detections appear to be isolated detections or similar to background levels. Therefore, no further assessment is recommended.







Introduction

The purpose of the limited Phase II Environmental Site Assessment (ESA) was to evaluate the recognized environmental concerns (REC) identified in the Phase I ESA at 5 Central Avenue West, Minot, North Dakota (Site) and determine whether a release of hazardous substances has occurred at the Site. The RECs identified in the Phase I ESA were associated with two former commercial printing shops. One printing shop was located in the southwest corner of the Site and the other was located in the center of the Site. The Scope of Work (SOW) dated December 18, 2012, called for collecting soil samples from six borings located on the Site. Two boreholes are located approximately within the boundary of each former printing shop. The remaining two locations are spaced within the balance of the Site for general site investigative purposes and/or to establish background concentrations.

At each sample location, continuous samples were collected and a photoionization detector (PID) was used to screen the sample for the potential presences of volatile organic compounds (VOC). If an elevated PID reading was found, one grab sample for all constituents was collected at the depth of the highest reading. If an elevated reading was not found, the sample was composited using a decontaminated stainless steel spoon and bowl, except for VOCs. VOCs were collected from the bottom of the borehole. Samples were analyzed by Test America, Arvada, Colorado. All utilities were located utilizing the North Dakota One-Call system prior to conducting any subsurface investigations.





Site Location and Geologic Setting

The Site is located at 5 Central Avenue West, Minot, North Dakota (**Figure 1**). It is approximately 0.96 acres in size and is zoned as a central commercial zone (C-3) (City of Minot 2010). The Site lies at an average elevation of approximately 1580 feet above mean seal level (TriMedia 2012). The Souris River is located approximately 725 feet north of the Site. The Site consists of a surface parking lot with one small building (toll booth) measuring approximately 16 feet by 26 feet at the southeast corner of the property (TriMedia 2012). The Site will be redeveloped into a three-story parking garage with the possible addition of apartments on top at a later date. Properties surrounding the site include commercial and retail properties (TriMedia 2012).

TriMedia Environmental and Engineering Services, LLC (TriMedia) described the underlying geology of the area to consist of Cenozoic Era Tertiary System with Paleocene Series. The soil type is characterized as moderately well drained, deep loam and excessively drained, deep gravely loam. A review of surface geology of Minot indicates that the Site is located on Quaternary age river terrace deposits which consist of planar bedded sands and gravels with abundant cobbles and boulders (Anderson 2006).

Soil borings from this assessment show that sand with gravel is located from the ground surface (beneath the asphalt) to approximately 8 feet below ground surface (bgs). Occasionally the sands became clayey, and SB-4, SB-5, and SB-6 were noted to contain clay with sand to sandy clay at varying depths in addition to sand with gravel. Trace cobbles or boulders were encountered in several boreholes which varied from siltstone, limestone, granite, and either scoria or brick, and the occurrences are noted in the boring logs. Boring logs from this assessment are included in **Appendix A** and photos of core are included in **Appendix B**.

Groundwater was not encountered in any borehole. The frost depth was encountered at approximately 3 feet bgs in each borehole. The topography of the Site is a slight to moderate slope down to the north. The assumed local groundwater flow is to the north based on the general topographic gradient and the location of the Souris River (TriMedia 2012).





Summary of Phase I Assessment

TriMedia performed a Phase I ESA (June 19, 2012) and documented the current Site conditions. Historical sources of the Site include Sanborn Maps from 1904, 1907, 1913, 1918, 1926, 1932, 1945, and 1952; and aerial photographs from 1946, 1966, 1974, 1982, 1984, 1992, 1995, 2005, and 2006. These historical sources show that the Site in 1904 was largely undeveloped with a fire hall/lock-up in the southeast corner, a plumber and flour/feed store in the northeast corner, and five other buildings at the Site. In 1907, the fire hall was expanded to include City Hall in a larger building and there was some additional development at the north end of the Site. In 1913, a printing shop has appeared on the Sanborn Map, but was replaced by a grocery store on the 1918 map. In 1926, the Sanborn Map shows that the Site was largely retail or commercial buildings. In 1932, a print shop appeared in the southwest corner of the Site, but in 1945, the shop was no longer present on the Sanborn Map. From 1946 to 1966, the Site appeared to be retail or commercial buildings. Between 1966 and 1974, the Site became a surface parking lot. The remaining aerials from 1974 to 2006 show the Site as a surface parking lot. (TriMedia 2012).

TriMedia identified one REC, the former presence of the commercial printing shops, on the Site. In addition to the former commercial printing shops, environmental data sources were reviewed and the Phase I documented one Resource Conservation and Recovery Act (RCRA) generator, three RCRA nongenerators, one mine, and several underground storage tanks (UST) and LUSTs that were within the ASTM E 1527-05 search radius around the Site (TriMedia 2012). These sites were not identified as RECs during the Phase I ESA.





Summary of Limited Phase II Assessment

Field work commenced at the Site on January 6, 2013, and concluded on the same day. Field work at the Site was coordinated with field investigations conducted for a separate limited Phase II ESA investigation at 205 1st Street SW, Minot, North Dakota for the same client. Field notes and photos are included in **Appendix B**. Utility clearances were conducted prior to any intrusive subsurface work. One week prior to beginning drilling and sampling activities, the North Dakota One-Call System and appropriate utility companies were contacted to locate and mark buried utilities. Prior to commencement of drilling, borehole locations were checked by the drilling subcontractor (American Engineering Testing, Inc. [AET]) and CDM Smith personnel to verify if there were any utilities at proposed locations.

The field investigation followed the procedures stated in the 5 Central Avenue West Phase II SOW except where noted in this report and included the sampling of subsurface soil to determine potential contamination from site related or offsite related activities. A total of six boreholes were completed to a depth of 8 feet bgs. Boring locations were identified in the field using aerial photographs and final borehole locations were confirmed by measuring locations from stationary landmarks. The final borehole locations are shown on **Figure 2**.

Subsurface soil samples were collected and analyzed for chemicals which may have been associated with the former commercial printing shops. The data quality objectives for soil sampling were to provide analytical data sufficient to determine whether soils at the Site have been impacted by operations at the Site. Soil samples were analyzed for RCRA 8 metals (metals), polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH) – gasoline range organics (GRO), TPH – diesel range organics (DRO), VOCs, and percent moisture.

The subsurface soil samples were collected using a direct push (Geoprobe) drilling rig with 2 ¼ inch core barrel. All recovered soil was initially screened in the field for organic vapors using the PID. Screening took place immediately after the opening of the soil liner sleeves. Screening results were noted on the boring logs in **Appendix A**. Because there were no elevated PID readings or other indications of contamination (i.e., odor or staining) noted in any of the borings, the sample was composited using a decontaminated stainless steel trowel and bowl, except for VOCs. VOCs were collected from the bottom of the borehole from within the soil liner sleeve. (If an elevated PID reading had been found, one grab sample for all constituents would have been collected from the depth of the highest reading.) Sampling equipment (stainless steel trowel and bowl) were decontaminated after each use using distilled water and a non-phosphate detergent (Alconox) and then rinsed with distilled water.

The lithology of the soil retrieved from each boring was logged in accordance with the Unified Soil Classification System (USCS). Logging information was recorded on the boring logs included in **Appendix A**.

Excess soil generated during sampling was placed in the boreholes. If there was not enough soil remaining, filter pack sand was used to fill the remaining void space in the borehole to the surface. A cold asphalt patch was used to restore the surface.





Results

All samples were analyzed for RCRA 8 metals, PAHs, TPHs (GROs and DROs), VOCs, and percent moisture. Analytical results are provided in **Table 1** and complete analytical data packages are provided **Appendix C**. Following receipt of the analytical data packages, the data were reviewed and validated to determine its usability. The data were determined to be usable. The data validation and usability summary is included with the data packages in **Appendix C**.

In the data tables, a "J" qualifier after the numerical concentration indicates that the result is less than the analytical method reporting limit (RL) but greater than or equal to the minimum detectable level (MDL) and the concentration is an approximate value.

RCRA 8 Metals

Several metals were detected in the subsurface soil samples. These metals include arsenic, barium, cadmium, chromium, lead, and mercury. The detected results are shown in **Table 1** and summarized below.

- Arsenic was detected in all six subsurface soil samples. The concentrations ranged from 6.3 milligrams per kilogram (mg/kg) (SB-1) to 14 mg/kg (SB-6).
- Barium was detected in all six subsurface soil samples. The concentrations ranged from 97 mg/kg (SB-4) to 150 mg/kg (SB-5).
- Cadmium was detected in all six subsurface soil samples. The concentrations ranged from 0.24 J mg/kg (SB-1 and SB-3) to 0.36 J mg/kg (SB-6).
- Chromium was detected in all six subsurface soil samples. The concentrations ranged from 7.6 mg/kg (SB-4) to 9.9 mg/kg (SB-2).
- Lead was detected in all six subsurface soil samples. The concentrations ranged from 3.2 mg/kg (SB-4) to 7.8 mg/kg (SB-6).
- Mercury was detected in all six subsurface soil samples. The concentrations ranged from 0.020 mg/kg (SB-1) to 0.023 mg/kg (SB-3, SB-5, and SB-6).

PAHs

Three PAHs were detected in subsurface soil samples from SB-1 and SB-6. The complete list of PAHs analyzed for in soil samples are shown in **Table 1**. SB-1 had detected concentrations of phenanthrene at 17 J micrograms per kilogram (μ g/kg) and pyrene at 21 J μ g/kg. SB-6 had detected concentrations of benzo[b]fluoranthene at 29 μ g/kg, phenanthrene at 23 J μ g/kg, and pyrene at 33 J μ g/kg.



TPHs

The complete list of results for TPHs analyzed for in soil samples are shown in **Table 1**. TPH-DROs were detected in all four subsurface soil samples. The concentrations ranged from 0.9 J mg/kg (SB-3) to 8 mg/kg (SB-1). TPH-GROs were not detected in any subsurface soil samples.

VOCs

The complete list of results for VOCs analyzed for in soil samples are shown in **Table 1**. Two VOCs were detected in subsurface soil samples.

Methylene chloride was detected in the soil sample collected from SB-1 at 2.9 J μg/kg

Tetrachloroethene was detected in the soil sample collected from SB-3 at 6.2 μg/kg.

Percent Moisture

Percent moisture was analyzed for all subsurface soil samples. The complete list of results for percent moisture for soil samples are shown in **Table 1**. The percent moisture ranged from 5.6 percent (%) (SB-1) to 7.8% (SB-3).



Discussion

6.1 Primary Contaminants

The contaminants detected for subsurface soils included metals (arsenic, barium, cadmium, chromium, lead, and mercury), PAHs (benzo[b]fluoranthene, phenanthrene, and pyrene), TPH-DROs, and VOCs (methylene chloride and tetrachloroethene).

6.2 Extent of Contamination

This section describes the extent of contamination and those contaminants with concentrations above the Environmental Protection Agency's (EPA) Regional Screening Levels (RSLs) for residential and industrial soil. In addition, TPHs do not have an EPA RSL. A TPH limit of 100 ppm was used as that is the limit which typically requires action under the North Dakota Department of Health's UST/LUST program. Although there is no UST/LUST involved at the Site, it is assumed that the 100 mg/kg limit would be used for cleanup action.

6.3 Sources of Observed Contamination RCRA 8 Metals

Six metals were detected in all six subsurface soil samples. The metal that exceeded the EPA RSLs for residential and industrial soil was arsenic in all six samples. Concentrations of arsenic ranged between 6.3 mg/kg and 14 mg/kg. The U.S. Geological Survey (USGS) Professional Paper 1270 was reviewed to determine the expected metals concentrations in soil, and the average concentration for arsenic in this part of North Dakota is approximately 10 mg/kg (USGS 1984). Therefore, the arsenic concentrations detected are within the range of expected background concentrations.

PAHs

Three PAHs were detected in two subsurface soil samples. However, none of these detections exceeded EPA RSLs for residential or industrial soils as shown on **Table 1**.

TPHs

TPH-DROs were detected in all four subsurface soil samples. However, TPH-DROs concentrations did not exceed the UST/LUST limit of 100 ppm. TPH-GROs were not detected any samples.

VOCs

Two VOCs were detected in subsurface soil samples. Methylene chloride was detected in the soil sample collected from SB-1 and tetrachloroethene was detected in the soil sample collected from SB-3. Neither of these detections exceeded the EPA RSLs for residential or industrial soils as shown on **Table 1**.





Conclusions and Recommendations

The conclusions provided in this section are based on the results of this limited Phase II ESA. The Site is located at 5 Central West Avenue, Minot, North Dakota. The Site consists of a surface parking lot with one small building (toll booth) at the southeast corner of the property. Media investigated during this limited Phase II ESA included subsurface soil.

7.1 Geology and Hydrogeology

Soil borings from this assessment show that sand with gravel is located from the ground surface (beneath the asphalt) to approximately 8 feet below ground surface (bgs). Occasionally the sands became clayey, and SB-4 and SB-6 were noted to contain clay with sand at varying depths in addition to sand with gravel. Trace cobbles or boulders were encountered in several boreholes which varied from siltstone, limestone, granite, and either scoria or brick, and the occurrences are noted in the boring logs. Groundwater was not encountered during this investigation, but the assumed local groundwater flow is to the north based on the general topographic gradient and the location of the Souris River (TriMedia 2012).

7.2 Extent of Contamination

As discussed in Section 6, Site contaminants found in the subsurface soil included six metals, three PAHs, TPH-DROs, and two VOCs. Of the six metals, arsenic was the only metal to exceed the EPA RSLs for residential and industrial soils. Based on information gathered from USGS Professional Paper 1270, the arsenic concentrations are within the range of expected background concentrations (USGS 1984).

The PAHs were detected in two subsurface soil samples, but none of the detections exceeded EPA RSLs for residential or industrial soils. TPH-DROs were detected at all four locations, but none of the detections exceeded the assumed UST/LUST limit of 100 mg/kg. One VOC was detected at SB-1 and one VOC was detected at SB-6, but neither exceeded EPA RSLs for residential or industrial soils.

7.3 Recommendations

Based on the information obtained during this limited Phase II ESA, it does not appear that the detected analytes are a significant indicator of contamination. The detections appear to be isolated detections or similar to naturally occurring background levels, and none of the detections exceed EPA RSLs or the assumed UST/LUST limit of 100 ppm. Therefore, no further assessment is recommended.





References

Anderson, F.J. 2006. *Surface Geology of the Minot Quadrangle, North Dakota*. North Dakota Geological Survey Map no. 24K Mnot –sg, 1:24,000 scale. Accessed on January 16, 2013. Available at: https://www.dmr.nd.gov/ndgs/surfacegeo/surfacemapsnew.asp.

City of Minot. 2010. *Zoning Map*. Accessed on January 17, 2013. Available at http://www.minotnd.org/index.php?option=com_content&view=article&id=11&Itemid=102.

TriMedia Environmental and Engineering Services, LLC (TriMedia). 2012. *Phase I Environmental Site Assessment: 5 Central Avenue West, Minot, ND 58701*. TriMedia Project Number 2012-102. August 6.

U.S. Geological Survey (USGS). 1984. *Elementary Concentration in Soils and Other Surficial Materials of the Conterminous United States*, U.S. Geological Survey Professional Paper 1270.





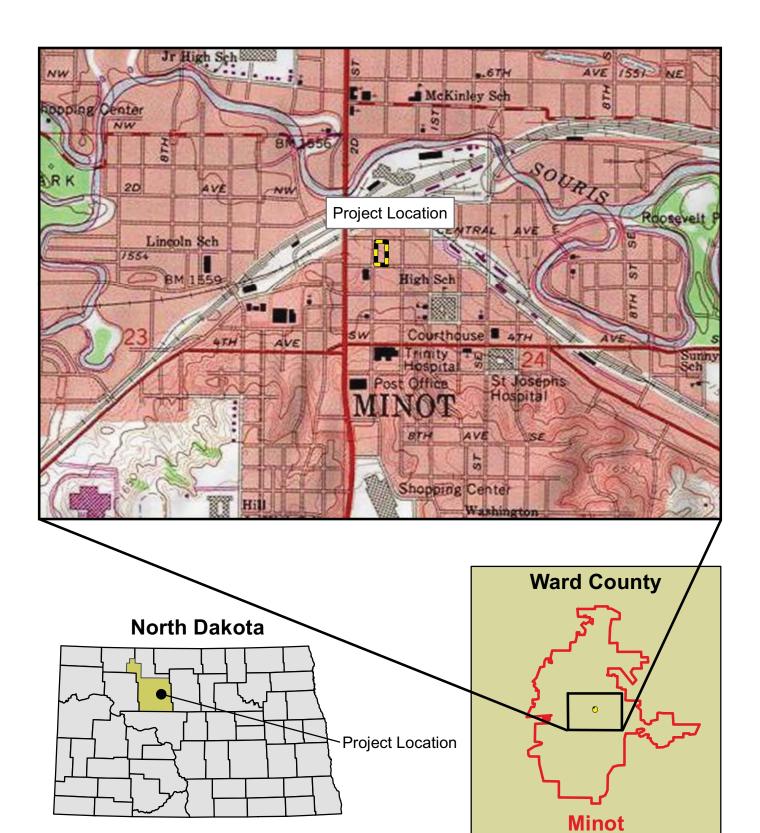


Figure 1: Site Location Map





5 Central Avenue W Minot, North Dakota

Source: USGS 7.5-Minute
Topographic Map

0 0.2 0.4 Miles



Figure 2: Soil Boring Locations



5 Central Avenue W Minot, North Dakota

Aerial Photography: Bing Maps



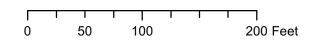


TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re	ecovery Act Me	tals					
Arsenic	7440-38-2	6.3	mg/Kg		1.9	1.6	0.39
Barium	7440-39-3	110	mg/Kg		0.96	190,000	15,000
Cadmium	7440-43-9	0.24	mg/Kg	J	0.48	800	70
Chromium	7440-47-3	8.9	mg/Kg		1.4	NA	NA
Lead	7439-92-1	3.7	mg/Kg		0.77	800	400
Selenium	7782-49-2	ND	mg/Kg		0.83	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.15	5,100	390
Mercury	7439-97-6	0.02	mg/Kg		0.017	43	10
Total Petroleum Hydrocarbon	s		•				•
DRO (C10-C28)	N/A	8	mg/Kg		4	NA	NA
GRO (C6-C10)	8006-61-9	ND	mg/Kg		0.34	NA	NA
Polycyclic Aromatic Hydrocark	oons						
1-Methylnaphthalene	90-12-0	ND	ug/Kg		11	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		19	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		10	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		17	NA	NA
Anthracene	120-12-7	ND	ug/Kg		17	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		20	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		20	210	15
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		27	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		16	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		40	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		27	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		19	210	15,000
Fluoranthene	206-44-0	ND	ug/Kg		36	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		18	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		22	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		31	18,000	3,600
Phenanthrene	85-01-8	17	ug/Kg	J	330	NA	NA
Pyrene	129-00-0	21	ug/Kg	J	330	17,000,000	1,700,000
Volatile Organic Compounds			G. G			27,000,000	
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.57	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/Kg		0.66	2,800	560
1,1,2-Trichloroethane	79-00-5	ND	ug/Kg		0.96	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.49	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.23	17,000	3,300
1,1-Dichloroethene	75-35-4	ND	ug/Kg		0.64	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.82	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.8	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg		0.65	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg		0.57	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg		0.49	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg		0.76	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg		0.6	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg		0.52	4,700 NA	NA
1,4-Dichlorobenzene	106-46-7	ND	ug/Kg		0.85	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg		61	17,000	4,900
2-Butanone (MEK)	78-93-3	ND	ug/Kg		2	200,000,000	28,000,000
2-Hexanone	591-78-6	ND	ug/Kg		5.3	1,400,000	210,000
- Hexanone	331 /0 0	שויו	46/ 1\g		ر. ر	1,400,000	210,000



SAMPLE SB-1 (0113-SB1-5CEN-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	(Continued)						
Acetone	67-64-1	ND	ug/Kg		5.9	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.51	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.25	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.54	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.46	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.69	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.59	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.33	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.62	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.97	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.32	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.84	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.61	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.4	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.44	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.24	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.57	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.73	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.64	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		3	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.37	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg		0.46	NA	NA
Methylene Chloride	75-09-2	2.9	ug/Kg	J	5.4	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		1.1	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.66	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.69	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg		0.64	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.75	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.42	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.73	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.25	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		1.1	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.5	1,700	60

mg/Kg - milligram per kilogram

ug/Kg – microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA – not available



TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Rec			Offics	Qualifici	Detection Limit	ma. Son RSE	NCS. SOII NSE
Arsenic	7440-38-2	7.1	mg/Kg		1.9	1.6	0.39
Barium	7440-39-3	110	mg/Kg		0.95	190,000	15,000
Cadmium	7440-43-9	0.26	mg/Kg	J	0.48	800	70
Chromium	7440-47-3	9.9	mg/Kg	,	1.4	NA	NA
Lead	7439-92-1	3.9	mg/Kg		0.76	800	400
Selenium	7782-49-2	ND	mg/Kg		0.82	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.15	5,100	390
Mercury	7439-97-6	0.022	mg/Kg		0.016	43	10
Total Petroleum Hydrocarbons	7 .00 07 0	0.022	6/ 1.6		0.010	43	10
DRO (C10-C28)	N/A	ND	ma/Va		0.68	NIA	NIA
GRO (C6-C10)	8006-61-9	ND	mg/Kg mg/Kg		0.34	NA	NA NA
	I .	ND	ilig/ kg		0.34	NA	NA
Polycyclic Aromatic Hydrocarbo		ND	114		10	50.000	46.000
1-Methylnaphthalene	90-12-0	ND	ug/Kg		12	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		20	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		11	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		18	NA	NA
Anthracene	120-12-7	ND	ug/Kg		18	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		21	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		21	210	15
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		28	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		17	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		42	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		29	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		20	210	15
Fluoranthene	206-44-0	ND	ug/Kg		38	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		19	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		23	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		33	18,000	3,600
Phenanthrene	85-01-8	ND	ug/Kg		18	NA	NA
Pyrene	129-00-0	ND	ug/Kg		13	17,000,000	1,700,000
Volatile Organic Compounds							
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.49	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/Kg		0.58	2,800	560
1,1,2-Trichloroethane	79-00-5	ND	ug/Kg		0.83	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.43	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.2	17,000	3,300
1,1-Dichloroethene	75-35-4	ND	ug/Kg		0.56	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.71	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.69	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg		0.57	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg		0.49	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg		0.43	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg		0.66	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg		0.52	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg		0.45	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	ug/Kg		0.74	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg		53	17,000	4,900
2-Butanone (MEK)	78-93-3	ND	ug/Kg		1.7	200,000,000	28,000,000
2-Hexanone	591-78-6	ND	ug/Kg		4.6	1,400,000	210,000



SAMPLE SB-2 (0113-SB2-5CEN-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	s (Continued)		•				
Acetone	67-64-1	ND	ug/Kg		5.1	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.45	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.22	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.47	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.4	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.6	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.51	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.28	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.54	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.84	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.27	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.73	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.53	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.2	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.38	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.21	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.49	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.63	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.56	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		2.6	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.32	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg		0.4	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg		1.5	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		0.98	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.58	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.6	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg		0.56	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.65	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.37	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.63	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.22	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		0.98	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.3	1,700	60

mg/Kg - milligram per kilogram

ug/Kg - microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA – not available



TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re	ecovery Act Me	tals					
Arsenic	7440-38-2	6.9	mg/Kg		1.9	1.6	0.39
Barium	7440-39-3	140	mg/Kg		0.94	190,000	15,000
Cadmium	7440-43-9	0.24	mg/Kg	J	0.47	800	70
Chromium	7440-47-3	9.3	mg/Kg		1.4	NA	NA
Lead	7439-92-1	3.8	mg/Kg		0.75	800	400
Selenium	7782-49-2	ND	mg/Kg		0.81	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.15	5,100	390
Mercury	7439-97-6	0.023	mg/Kg		0.023	43	10
Total Petroleum Hydrocarbon	s	•	•				•
DRO (C10-C28)	N/A	0.9	mg/Kg	J	4	NA	NA
GRO (C6-C10)	8006-61-9	ND	mg/Kg		0.35	NA	NA
Polycyclic Aromatic Hydrocark	oons	<u> </u>					
1-Methylnaphthalene	90-12-0	ND	ug/Kg		12	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		20	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		11	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		18	NA	NA
Anthracene	120-12-7	ND	ug/Kg		18	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		21	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		21	210	150
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		27	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		16	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		41	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		28	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		20	210	15,000
Fluoranthene	206-44-0	ND	ug/Kg		37	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		19	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		23	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		32	18,000	3,600
Phenanthrene	85-01-8	ND	ug/Kg		18	NA	NA
Pyrene	129-00-0	ND	ug/Kg		12	17,000,000	1,700,000
Volatile Organic Compounds	1		6/8		12	17,000,000	1,700,000
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.48	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	1		0.56	2,800	560
1,1,2-Trichloroethane	79-34-3	ND	ug/Kg ug/Kg		0.81	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.42	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.19	17,000	3,300
1,1-Dichloroethene	75-34-3	ND	ug/Kg		0.19	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.69	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.67	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg		0.55	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg		0.48	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg		0.42	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg		0.65	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg		0.51	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg ug/Kg		0.44	4,700 NA	NA
1,4-Dichlorobenzene	106-46-7	ND			0.72	12,000	2,400
1,4-Dioxane	123-91-1	ND ND	ug/Kg		52	17,000	4,900
2-Butanone (MEK)	78-93-3	ND ND	ug/Kg ug/Kg				
2-Hexanone	591-78-6	ND			1.7	200,000,000	28,000,000
2-11EXAIIUIIE	221-10-0	טא	ug/Kg		4.5	1,400,000	210,000



SAMPLE SB-3 (0113-SB3-5CEN-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	(Continued)						
Acetone	67-64-1	ND	ug/Kg		5	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.43	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.21	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.46	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.39	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.58	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.5	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.28	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.53	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.82	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.27	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.71	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.52	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.2	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.37	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.2	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.48	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.62	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.54	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		2.5	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.31	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg		0.39	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg		1.5	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		0.96	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.56	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.58	36,000,000	6,300,000
Tetrachloroethene	127-18-4	6.2	ug/Kg		4.6	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.64	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.36	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.62	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.21	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		0.96	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.2	1,700	60

mg/Kg - milligram per kilogram

ug/Kg - microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA – not available



TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Rec	overy Act Me						
Arsenic	7440-38-2	6.9	mg/Kg		1.9	1.6	0.39
Barium	7440-39-3	97	mg/Kg		0.96	190,000	15,000
Cadmium	7440-43-9	0.25	mg/Kg	J	0.48	800	70
Chromium	7440-47-3	7.6	mg/Kg		1.4	NA	NA
Lead	7439-92-1	3.2	mg/Kg		0.77	800	400
Selenium	7782-49-2	0.84	mg/Kg	J	1.3	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.15	5,100	390
Mercury	7439-97-6	0.022	mg/Kg		0.019	43	10
Total Petroleum Hydrocarbons			0, 0			73	10
DRO (C10-C28)	N/A	ND	mg/Kg		0.68	NA	NA
GRO (C6-C10)	8006-61-9	ND	mg/Kg		0.35	NA NA	NA NA
· · · ·		ND	IIIg/ Ng		0.55	IVA	INA
Polycyclic Aromatic Hydrocarbo		ND	/14		12	F2 000	46.000
1-Methylnaphthalene	90-12-0	ND	ug/Kg		12	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		20	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		11	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		18	NA	NA
Anthracene	120-12-7	ND	ug/Kg		18	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		21	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		21	210	15
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		28	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		17	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		42	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		28	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		20	210	15
Fluoranthene	206-44-0	ND	ug/Kg		38	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		19	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		23	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		33	18,000	3,600
Phenanthrene	85-01-8	ND	ug/Kg		18	NA	NA
Pyrene	129-00-0	ND	ug/Kg		13	17,000,000	1,700,000
Volatile Organic Compounds							
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.48	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/Kg		0.57	2,800	560
1,1,2-Trichloroethane	79-00-5	ND	ug/Kg		0.82	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.42	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.2	17,000	3,300
1,1-Dichloroethene	75-35-4	ND	ug/Kg		0.55	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.7	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.68	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg		0.56	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg		0.48	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg		0.42	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg		0.65	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg		0.51	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg		0.45	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	ug/Kg		0.73	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg		52	17,000	4,900
2-Butanone (MEK)	78-93-3	ND	ug/Kg		1.7	200,000,000	28,000,000
2-Hexanone	591-78-6	ND	ug/Kg		4.6	1,400,000	210,000



SAMPLE SB-4 (0113-SB4-5CEN-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	s (Continued)		•				
Acetone	67-64-1	ND	ug/Kg		5	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.44	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.21	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.47	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.39	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.59	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.5	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.28	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.53	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.83	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.27	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.72	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.52	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.2	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.37	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.21	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.48	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.62	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.55	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		2.6	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.32	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg		0.39	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg		1.5	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		0.97	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.57	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.59	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg		0.55	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.64	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.36	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.62	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.21	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		0.97	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.2	1,700	60

mg/Kg - milligram per kilogram

ug/Kg – microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA – not available



TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re	covery Act Me						
Arsenic	7440-38-2	6.6	mg/Kg		2	1.6	0.39
Barium	7440-39-3	150	mg/Kg		1	190,000	15,000
Cadmium	7440-43-9	0.25	mg/Kg	J	0.5	800	70
Chromium	7440-47-3	7.9	mg/Kg		1.5	NA	NA
Lead	7439-92-1	3.7	mg/Kg		0.8	800	400
Selenium	7782-49-2	ND	mg/Kg		0.86	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.16	5,100	390
Mercury	7439-97-6	0.023	mg/Kg		0.018	43	10
Total Petroleum Hydrocarbon	s						
DRO (C10-C28)	N/A	1	mg/Kg	J	4	NA	NA
GRO (C6-C10)	8006-61-9	ND	mg/Kg		0.35	NA	NA
Polycyclic Aromatic Hydrocark	oons						
1-Methylnaphthalene	90-12-0	ND	ug/Kg		11	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		19	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		10	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		17	NA	NA
Anthracene	120-12-7	ND	ug/Kg		17	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		20	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		20	210	15
Benzo[b]fluoranthene	205-99-2	ND	ug/Kg		26	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		16	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg		40	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg		27	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		19	210	15
Fluoranthene	206-44-0	ND	ug/Kg		36	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		18	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		22	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		31	18,000	3,600
Phenanthrene	85-01-8	ND	ug/Kg		17	NA	NA
Pyrene	129-00-0	ND	ug/Kg		12	17,000,000	1,700,000
Volatile Organic Compounds			G. G			1,,000,000	
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.44	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/Kg		0.51	2,800	560
1,1,2-Trichloroethane	79-00-5	ND	ug/Kg		0.74	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.38	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.18	17,000	3,300
1,1-Dichloroethene	75-35-4	ND	ug/Kg		0.5	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.63	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.62	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg		0.51	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg		0.44	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg		0.38	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg		0.59	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg		0.46	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg		0.4	NA	NA NA
1,4-Dichlorobenzene	106-46-7	ND	ug/Kg		0.66	12,000	2,400
1,4-Dioxane	123-91-1	ND	ug/Kg		47	17,000	4,900
2-Butanone (MEK)	78-93-3	ND	ug/Kg		1.5	200,000,000	28,000,000
2-Hexanone	591-78-6	ND	ug/Kg		4.1	1,400,000	210,000



SAMPLE SB-5 (0113-SB5-5CEN-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds	(Continued)						
Acetone	67-64-1	ND	ug/Kg		4.5	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.4	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.19	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.42	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.35	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.53	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.46	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.25	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.48	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.75	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.24	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.65	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.47	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.1	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.34	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.19	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.44	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.57	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.5	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		2.3	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.29	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg		0.35	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg		1.3	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		0.88	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.51	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.53	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg		0.5	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.58	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.33	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.57	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.19	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		0.88	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.1	1,700	60

mg/Kg - milligram per kilogram

ug/Kg – microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

NA – not available



TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Resource Conservation and Re	covery Act Me	tals					
Arsenic	7440-38-2	14	mg/Kg		1.8	1.6	0.39
Barium	7440-39-3	140	mg/Kg		0.9	190,000	15,000
Cadmium	7440-43-9	0.36	mg/Kg	J	0.45	800	70
Chromium	7440-47-3	9.2	mg/Kg		1.3	NA	NA
Lead	7439-92-1	7.8	mg/Kg		0.72	800	400
Selenium	7782-49-2	ND	mg/Kg		0.77	5,100	390
Silver	7440-22-4	ND	mg/Kg		0.14	5,100	390
Mercury	7439-97-6	0.023	mg/Kg		0.021	43	10
Total Petroleum Hydrocarbon	5	•	•		•	•	•
DRO (C10-C28)	N/A	2.2	mg/Kg	J	4.2	NA	NA
GRO (C6-C10)	8006-61-9	ND	mg/Kg		0.35	NA	NA
Polycyclic Aromatic Hydrocarb	ons						
1-Methylnaphthalene	90-12-0	ND	ug/Kg		12	53,000	16,000
2-Methylnaphthalene	91-57-6	ND	ug/Kg		20	2,200,000	230,000
Acenaphthene	83-32-9	ND	ug/Kg		11	33,000,000	3,400,000
Acenaphthylene	208-96-8	ND	ug/Kg		18	NA	NA
Anthracene	120-12-7	ND	ug/Kg		18	170,000,000	17,000,000
Benzo[a]anthracene	56-55-3	ND	ug/Kg		21	2,100	150
Benzo[a]pyrene	50-32-8	ND	ug/Kg		21	210	15
Benzo[b]fluoranthene	205-99-2	29	ug/Kg	JN	350	2,100	150
Benzo[g,h,i]perylene	191-24-2	ND	ug/Kg		17	NA	NA
Benzo[k]fluoranthene	207-08-9	ND	ug/Kg	UJ N	43	21,000	1,500
Chrysene	218-01-9	ND	ug/Kg	0311	29	210,000	15,000
Dibenz(a,h)anthracene	53-70-3	ND	ug/Kg		20	210	15
Fluoranthene	206-44-0	ND	ug/Kg		38	22,000,000	2,300,000
Fluorene	86-73-7	ND	ug/Kg		19	22,000,000	2,300,000
Indeno[1,2,3-cd]pyrene	193-39-5	ND	ug/Kg		23	2,100	150
Naphthalene	91-20-3	ND	ug/Kg		33	18,000	3,600
Phenanthrene	85-01-8	23	ug/Kg	J	350	NA NA	NA
Pyrene	129-00-0	33	ug/Kg	J	350	17,000,000	1,700,000
Volatile Organic Compounds		<u> </u>	<i>Gr G</i>			17,000,000	1,700,000
1,1,1-Trichloroethane	71-55-6	ND	ug/Kg		0.47	38,000,000	8,700,000
1,1,2,2-Tetrachloroethane	79-34-5	ND	ug/Kg		0.55	2,800	560
1,1,2-Trichloroethane	79-00-5	ND	ug/Kg		0.79	5,300	1,100
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	ug/Kg		0.4	180,000,000	43,000,000
1,1-Dichloroethane	75-34-3	ND	ug/Kg		0.19	17,000	3,300
1,1-Dichloroethene	75-34-3	ND	ug/Kg		0.53	1,100,000	240,000
1,2,3-Trichlorobenzene	87-61-6	ND	ug/Kg		0.67	490,000	49,000
1,2,4-Trichlorobenzene	120-82-1	ND	ug/Kg		0.66	99,000	22,000
1,2-Dibromo-3-Chloropropane	96-12-8	ND	ug/Kg ug/Kg		0.54	69	5.4
1,2-Dibromoethane	106-93-4	ND	ug/Kg ug/Kg		0.47	170	34
1,2-Dichlorobenzene	95-50-1	ND	ug/Kg ug/Kg		0.47	9,800,000	1,900,000
1,2-Dichloroethane	107-06-2	ND	ug/Kg ug/Kg		0.63	2,200	430
1,2-Dichloropropane	78-87-5	ND	ug/Kg ug/Kg		0.49	4,700	940
1,3-Dichlorobenzene	541-73-1	ND	ug/Kg ug/Kg		0.43	4,700 NA	NA
1,4-Dichlorobenzene	106-46-7	ND	•		0.43	12,000	2,400
1,4-Dioxane	123-91-1		ug/Kg		50	17,000	4,900
2-Butanone (MEK)	78-93-3	ND	ug/Kg		1.6	200,000,000	28,000,000
2-Hexanone (MEK)	78-93-3 591-78-6	ND ND	ug/Kg ug/Kg		4.4		
Z HEXALIOHE	221-10-0	שויו	ug/ Ng		4.4	1,400,000	210,000



SAMPLE SB-6 (0113-SB6-5CEN-SO)

TABLE 1 ANALYTICAL RESULTS IN SOIL 5 Central Avenue W, Minot, North Dakota

Analyte	CAS Number	Result	Units	Qualifier	Detection Limit	Ind. Soil RSL	Res. Soil RSL
Volatile Organic Compounds (Continued)							
Acetone	67-64-1	ND	ug/Kg		4.8	630,000,000	61,000,000
Benzene	71-43-2	ND	ug/Kg		0.42	5,400	1,100
Bromoform	75-25-2	ND	ug/Kg		0.21	220,000	62,000
Bromomethane	74-83-9	ND	ug/Kg		0.45	32,000	7,300
Carbon disulfide	75-15-0	ND	ug/Kg		0.38	3,700,000	820,000
Carbon tetrachloride	56-23-5	ND	ug/Kg		0.57	3,000	610
Chlorobenzene	108-90-7	ND	ug/Kg		0.49	1,400,000	290,000
Chlorobromomethane	74-97-5	ND	ug/Kg		0.27	680,000	160,000
Chlorodibromomethane	124-48-1	ND	ug/Kg		0.51	3,300	680
Chloroethane	75-00-3	ND	ug/Kg		0.8	61,000,000	15,000,000
Chloroform	67-66-3	ND	ug/Kg		0.26	1,500	290
Chloromethane	74-87-3	ND	ug/Kg		0.69	500,000	120,000
cis-1,2-Dichloroethene	156-59-2	ND	ug/Kg		0.5	2,000,000	160,000
cis-1,3-Dichloropropene	10061-01-5	ND	ug/Kg		1.2	NA	NA
Cyclohexane	110-82-7	ND	ug/Kg		0.36	29,000,000	7,000,000
Dichlorobromomethane	75-27-4	ND	ug/Kg		0.2	1,400	270
Dichlorodifluoromethane	75-71-8	ND	ug/Kg		0.47	400,000	94,000
Ethylbenzene	100-41-4	ND	ug/Kg		0.6	27,000	5,400
Isopropylbenzene	98-82-8	ND	ug/Kg		0.53	11,000,000	2,100,000
Methyl acetate	79-20-9	ND	ug/Kg		2.5	1,000,000,000	78,000,000
Methyl tert-butyl ether	1634-04-4	ND	ug/Kg		0.31	220,000	43,000
Methylcyclohexane	108-87-2	ND	ug/Kg		0.38	NA	NA
Methylene Chloride	75-09-2	ND	ug/Kg		1.4	960,000	56,000
m-Xylene & p-Xylene	179601-23-1	ND	ug/Kg		0.94	NA	NA
o-Xylene	95-47-6	ND	ug/Kg		0.55	3,000,000	690,000
Styrene	100-42-5	ND	ug/Kg		0.57	36,000,000	6,300,000
Tetrachloroethene	127-18-4	ND	ug/Kg		0.53	110,000	22,000
Toluene	108-88-3	ND	ug/Kg		0.62	45,000,000	5,000,000
trans-1,2-Dichloroethene	156-60-5	ND	ug/Kg		0.35	690,000	150,000
trans-1,3-Dichloropropene	10061-02-6	ND	ug/Kg		0.6	NA	NA
Trichloroethene	79-01-6	ND	ug/Kg		0.21	6,400	910
Trichlorofluoromethane	75-69-4	ND	ug/Kg		0.94	3,400,000	790,000
Vinyl chloride	75-01-4	ND	ug/Kg		1.2	1,700	60

mg/Kg - milligram per kilogram

ug/Kg – microgram per kilogram

Ind. Soil RSL – U.S. EPA industrial soil regional screening level

Res. Soil RSL – U. S. EPA residential soil regional screening level

- J the analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample
- UJ the analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate
- N the analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification

ND - not detected

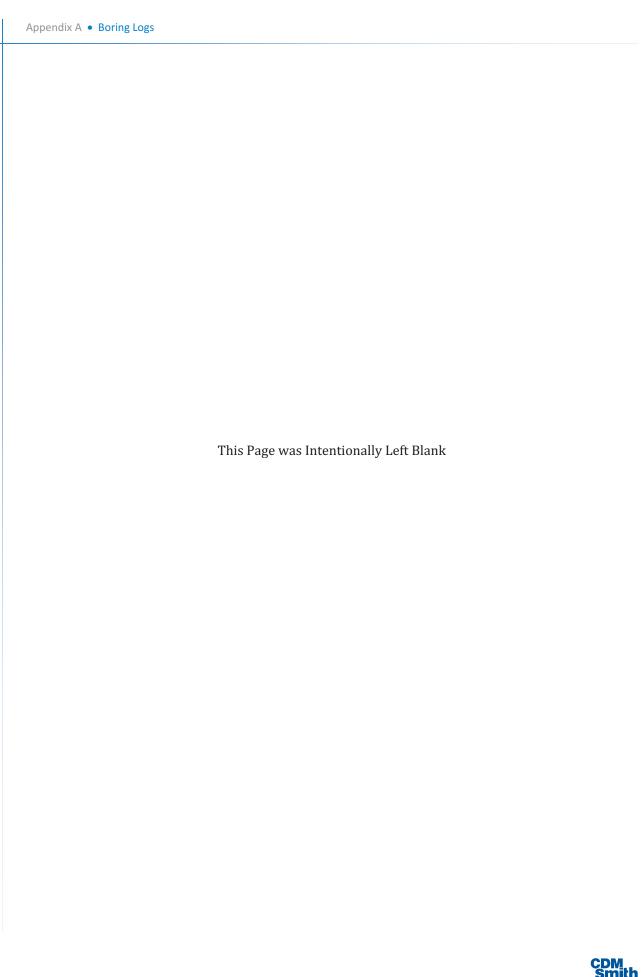
NA - not available



Appendix A

Boring Logs







		DRILLI	NG L	OG				SB	ENO."
1. COMPANY NAME				2. CRILLING SUBCONTRACTOR ART SHEET 1 OF SHEETS					
3. PROJECT 5	Programs Compo	ration re shase II		4, LOCATI	ON C	CFAI	TRAL		<u> </u>
5. NAME OF DRILLER	Byron Schu	11_ (Arr)	`	6. MANUF	ACTURER	SOESIGNATION	NOF DRILL	6600	
7. SIZES AND TYPES O AND SAMPUNG EQU	Pyron 2014	2 /4" core bo	vrel_	8. HOLEL	OCATION		18 95	4600	
AND SARPLING EQ.	DIFMEN			9. SURFAC	CE ELEVAT	FIOH (Elevation	top of hole)		
				10. DATE	STARTED		111.	DATE COMPLETED	
				4E PEGN	6/	7 WATER PACK	UNTERED	1/6/13	<u> </u>
12 OVERBURDENTHIC	CKNESS					NA	-		
13. DEPTH DRILLED IN	ITO ROCK			16. DIREC	TION OF F	HOLE 96	•		
14, TOTAL DEPTH OF	HOLE &1			17. TOTAL	NUMBER	OF CORE 80	ŒS		
18. GEOTHECHNICAL	SAMPLES	DISTURBED	UNDIST	URBED	19. TOT	AL NUMBER O	F SPUT SPOO	N SAMPLES	
20. SAMPLES FOR CHEMICAL ANALYSIS	8 RCRA VOCs	SVOCs TPH S	ын В	1V .	Herbs	RADs	Triaxial Permeability	April Provident	21 TOTAL CO
CHEMICAL ANALYSIS	METALS							~	
	XX	MONITORING OTHER	77.5	SGNATURE	OFINSP	CTOR			<u></u> '
OF HOLE	BACKFILLED	MONITORING OTHER (SPECIFY	2		1/1	- 1	1 Fil	:	
•	8			•	1.0				·
DEPTH	DESCRIPTIONO	F MATERIALS	SCREEN!	GEO' SAM CORE	TECH PLE BOX NO.	ANALYTICAL SAMPLE NO.	RECOVERY	REMARKS	•
b. A. /	c.		1	+-	e	<u> </u>	5.	h	
			1 // /				1 1		
- Hapha	/ /		0.					No pictures o	feare.
Sand	with gravel.	fine stand, sal	0.1					No pictures o	feore,_ life.
Sand	onth gravel,	Fine grand, set	0.1					No pictures o only ampo	feore, _ life. -
Sand Soul	with gravel, dry, light brow	film grand, sub	0.1					No pictures, o only army	feore, _ life. -
2 COW	with gravel, dry, light brow	fine grand, sub	0.1						. · · -
3	dry, light brow	film grand, seb						No pictures, o only campos Frost at 3	. · · -
3	with gravel, dry, light brow Slightly moist.	fine grand, seb	0.1						. · · -
3	dry, light brow	fine grand, selven, se	0.1	No.					. · · -
3 -	dry, light brow	in, slightly mailf							. · · -
3 -	dry, light brow Slightly moist. Soro, 10-20% c	in, slightly mailf	0.1						. · · -
3 -	dry, light brow Slightly moist. Soro, 10-20% c	in, slightly mailf	0.1						. · · -
3 - Cow Sigh	dry, lightly moist. Gro 10-20% of thy moisty, tr. ex	las now	0.1						. · · -
3 - Cow Sigh	dry, lightly moist. Gro 10-20% of thy moisty, tr. ex	las now	0.1						. · · -
3	dry, light brown flightly moist. Gro 10-20% of the moisty tr. ex	las now	0.1						. · · -
As be slight	dry, light brown flightly moist. Gro 10-20% of the moisty, tr. expensely, from the brown flight brown flex	ely now obtle	0.1				41811		. · · -
As be slight	dry, light brown flightly moist. Gro 10-20% of the moisty tr. ex	ely now obtle	0.1				41811		. · · · -
As be slight	dry, light brown flightly moist. Gro 10-20% of the moisty, tr. expensely, from the brown flight brown flex	ely now obtle	0.1				41811		. · · · -

														HOLE	
		DRILLING												SR	
	1. COMPA	Y NAME	Program	- Corr	Han						DNTRACTOR	AET .		SHEE OF	T 1 SHEETS
_/~~	3. PROJE	AT.	Cent			ase.	TT	4	LOCAT	ions (Ave			
	S. NAMEO	F DRILLER			The m	100	الا حال				SDESIGNAT	ON OF DRILL	R		
	7. SIZES A	VIPUNG EOL	FORMUNG	v Dun	ultz (COND	bost	210	HOLE	OCATION	Geopro 6		0	100	
•	ANDSA	MPLING EQL	JIPMENT		× / /		-		SURFA	CE ELEVA	TION (Elevation	B-2 top of hole)			
													ATE COMPLE	TED	
								1	O DATE	STARTED	/13	"."	1/6/		
	12. OVERB	URDEN THIC	KNESS					1:	5. DEPT		DAVATER EXCO	UNTERED			
	12 OCOTU	DRILLED IN	TO ROCK		- +			10	. DIREC	TION OF	HOLE 90	0			
								·							
٠.	14. TOTAL	DEPTH OF H	IOLE 8	U		ē		1	7. TOTA	•	OF CORE BO				
	18. GEOTH	ECHNICAL S	SAMPLES		DIST	REED		UTSKINU	RBED	19. TO	ral number o	F SPUT SPOO			1
	20. SAMPL	ES FOR	8 RCRA METALS	VOCs	SVOCs	TPH	pH	l Rei	y	Herbs	RADs	Triaxial Permeability	P4!	idal-	NI TOTAL CORE RECOVERY
	20, SAMPL CHEMICAL	analysis	METALS	VO.23		1	- Pari	PC	-		1		1/		0,
٠.			X	X		X	٠						X		%
	23, DISPOS	ITION	BACKFIL	TED	MONITORING WELL	OTH (SPE	SP1	23. SI		E OF INSP			,		
			\ \							Mies	havel 2	Fred	res		
	1							FED CREENING PTD	GEO		ANALYTICAL SAMPLE NO.			MARKS	
	DEPTH		DES	CRIPTION	OF MATERIALS	i	S	FIN'S	CORE	TECH PLE BOX NO.	SAMPLE NO.	g.		h. ;	
$\gamma_{ij} = \frac{1}{2} \sum_{i=1}^{N} \gamma_{ij} = \frac{N}{2}$	5.	841 0	Asoh	ur a				0.1							
S. 7				•	1			.,						-	=
		sond	with go	ravel,	Fine gr	whelf,	,								=
		dry,	Angular	dasts	fine gr	we.								•	_
	२	light g	ray to b	ักพก											
	=	1			•				İ						=
	3-	/ ,	. 1 <i>L</i> l.	z.L				0./				//			
		W 51	ightly no	157	•							41911			
	4			, ,	, .		İ	OV I			- ''				
·	∥ ∃	Sand a	vith gra	vol, t	the grain	red		0.(•		
è.	13-	slight	ly moist	, 5 /4	yby House			÷		•					
	`∃	light	frown	. •		-								٠.,	=
	₆				4										
ļ.		tu in	en existe	then b	nd						<u>.</u>				Ξ
	-	Frace	9 MAL	abble	5										
,			9			-	Ì	0.1			1				
	8_=					_		•							· —
· .	∜ ∃	Compo	sile s	mple	s, Noc	s fo	7				<u> </u>				=
		·		-		How	,								
	=			٠											=
					<u> </u>					<u>,,, , , , , , , , , , , , , , , , , , </u>			Hor	E NO.	
	PROJECT												HULL	# 62,000	

								KOH. }	E NO.
		DRIL	LING L	OG		· · · · · · · · · · · · · · · · · · ·	· ·		3-
1. COMPANY NAME CDM Federal	l Programs Corpor	ation		2. ORIL	UNG SUBC	ONTRACTOR	AET	SHE OF	EET 1
3. PROJECT 5	Central Ave	Phase I	П	4. LOCA		-Centra	./ Ave		
S. NAME OF DRILLER	R Byron Sé	hultz CA	ET)	6, MANI	UFACTURER	S DESIGNATI	on of drill	666	
7. SZES AND TYPES AND SAMPUNG EX	OF DRILLING P		Core	a. HOLE	ELOCATION				
			bornel	9. SURF	YCE EFEAY	TION (Elevation	n top of hole)		
			· .	10. DAT	E STARTED	18	11. 3	DATE COMPLETED	
12. OVERBURDEN TH	TICKNESS			15. DEP	TH GROUNT	DWATER ENOU	OUNTERED	441	
13. DEPTH DRILLED	INTO ROCK			16. DIRE	ECTION OF I	NI HOLE 96			
14. TOTAL DEPTH OF		· · · · · · · · · · · · · · · · · · ·	· ·	17, 101	AL NUMBER	COF CORE BO			
18. GEOTHECHNICAL	8,	I DISTURBED	I UNDIS	TURSED			OF SPUT SPOO	ON SAMPLES	
								- en-L	起
20. SAMPLES FOR CHEMICAL ANALYSIS	S ARCRA VOGS	SVOCE TPH	pH [CBs	Herbs	RADs	Triantal Permeability	Other Shipsless	RE
-	XX				•			X	
22 DISPOSITION OF HOLE	BACKFILLED M	ONITORING OTH	野介 23.	SIGNATU	RE OF INSPI		/ _		_
					Me	chae	1 1.	rich	
DEPTH	DESCRIPTIONOF	MATERIALS	FIELD	NG S	OTECH MPLE/ IE BOX NO.	ANALYTICAL SAMPLE NO	% CORE RECOVERY	REMARKS	3
b.	<u> </u>	,	SCREEN SCREEN SESULI	S COR	e.	F.	g.	h.	
= 8". Asj	phalt		0.1	. .					
1- Light	t brown. Clayey round, shightly mos	sand with gar	nve/		ļ			. * *	
sub	round, shightly no	1st, fine sand	<u>/ </u>						
1 2 -		•							
29"	light gray to brow	in soul with g	g rains					Frostat.	?!
1 trace	moisture, sub co	ind, ruse	σl			,	11611		
L =	_ /						41911		
= 16" A	s before		0.1						
<u>-</u> -									
المراجعة المراجعة	sand, 4"	elifah.	100					• .	٠.
6-16" CH	las, bean, light brown	ייני ני ניייעי יי ע	"week						
1 7					}				
المبعد ا	with trace grave, ongaler clasts,	Webble, slight	4 0.1				3,	l	
- I MATT	, angular clasts, i Llaose	time to coase]		5		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	· •	11- 6			. !			: 	
	osite samples,	VOCS trans	m						
1 -			'						
1 7			ı	- 1	1	ļ	1	1	

			D	RIL	LIN	G LO	3				`	HOLE		
1. COMPANY NAME	Danasana			- 1		2.1	DRILLIA	IG SUBCO	NTRACTOR	AET	·	SHEE OF	T 1 SHEET	rs
CIM Federal 3. PROJECT 5	Central	<u>سس</u> دیگ	re Pha	se i	L		OCATI	* 5-1	certal	Ave				
5. NAME OF DRILLER		<u>√4,</u>	hultz			6, 1	MANUF	ACTURER.	S DESIGNATIO	oprobe.	6665			
7. SIZES AND TYPES OF AND SAMPLING EQU	FORILLING IPMENT	L	214"	core	. bar	70 0.1	a HOLELOCATION SB-4							
						9. 8	SURFAC	E ELEVAT	ION (Elevation	top of hole)				
						10.	10. DATE STARTED 11. DATE COMPLETED							
12. OVERBURDEN THICKNESS							15. DEPTH GROUNDWATER ENCOUNTERED							
	13. DEPTH DRILLED INTO ROCK							TION OF H		<i>A</i>	· · · · ·			
[17	TOTAL	NUMBER	OF CORE BO)		· ·			
14. TOTAL DEPTH OF H	. 6	·1				UNDISTURE				F SPUT SPOO	N SAMPLES			
18. GEOTHECHNICALS	SAMPLES		DISTU	KBED		UNLISTURE	, C.,	TV. (DT)	al rumper o	<u> </u>	- pA	<u></u>	M TOYAL	CODE
20. SAMPLES FOR CHEMICAL ANALYSIS	S RCRA METALS	VOCs	SVOCs	TPH	Hq	Pest/ PC8s		Herbs	RADs	Triaxial Permeability	-Other Phy	Lical_	ZI TOTAL RECOVER	₹Ÿ
		V		X			-]]		X			%
22 DISPOSITION OF HOLE	BACKFILLE	, D	MONITORING WELL	OT (SPE	EF7	23. SiGI	VATURE	OFINSPE	CTOR	10	/			
OF ROLE	λ							Me	chas	1 Fr	whe	S		
			:			FELD	GEO		ANALYTICAL SAMPLE NO.			MARKS	<u>:</u>	
DEPTH			OF MATERIALS			SCREENING RESULTS	CORE	TECH PLE/ BOXNO, 8.	SAMPLE NO.	g.		h.		
- 8" Ag	that+					0.1								
11/3-	. 1/ - 1	1. inh	t brown	shff	-	. ' . !	,				1			
TC lay	with sand	, "	/	•		! 				.				_
[] 2 = "y"		•		1										
39"	saw with	troce	gravel,	ight 6	(MA)						01	1.	71	=
13-70 30	ay, s ligh	ל ציי	holds de	.56		0.1				-	Fost	10.)	
11, 3			•	÷						41411				
1 - di 1 ala	y with som	1, 19	ht brain	et.A	7									
Dry	V = (=+ .	, .				1,0								
11/11 /								-				٠,		_
c ∃ 2'8" ·	of send wil	K g	rovel, ligh	it br	ewn,									
I Slight	ly most	dense	, 54h row	1, fix	€.									
7 = Sra	•													
	•		14			0-1				3, 11,1				=
8		,	der C		1.								•	
Camp	site Sonj	bez	Voca fi	ram 6	rot les			•						-
												•		
														-
PROJECT						<u> </u>	<u> </u>	<u>·</u>		<u>.f.</u>	НО	LE NO.		

•

				DRIL	LING	LO	3	,		1	LE NO. T	
1. COMPANY NAME CIM Federal				7		2.0	DRILLING SUB	CONTRACTOR	AFT		EET 1	
3. PROJECT	,	T .	Ave	21.	71	4. EOCATION 5 central Ave						
5. NAME OF DRILLER					<u> </u>	8. N		D'P OF CIGNA	TOWNE DOLL			
7. SIZES AND TYPES (alte		(1)	7 a H	a HOLELOCATION CD 6					
7. SIZES AND TYPES O AND SAMPLING EQ	UIPMENT		a yy	COLE	. basne			اد	3-5			
							URFACE ELEV	ATION (Elevation	on top of hole)			
						10.	DATESTARTE	6/13	11.	DATE COMPLETED	 -	
12. OVERBURDEN TH	CKNESS				· 	15. [O/ () NOWATER ENC				
13. DEPTH DRILLED IN	CO BOOK		<u> </u>			40.5	WITCH OF	LOUE	M			
13. DEPTH-DKILLED II	IIO ROCK					16. 6	DIRECTION OF	HOLE	960	·		
14. TOTAL DEPTH OF	HOTE S	1				17. 1	TOTAL NUMBE	R OF CORE BO	XES			
18. GEOTHECHNICAL	SAMPLES		DIST	URBED	UNI	STURBE	D 10. TC	TAL NUMBER	OF SPUT SPO	ON SAMPLES		
20 SAMPLES FOR	ARCRA		SVOC:	TT	1	Desti			Triagial	PAH	RECOV	
20. SAMPLES FOR CHEMICAL ANALYSIS	METALS	VOCs	51001	TPH	Hq	Pent/ PCBs	Herbs	RADs	Triaxiai Permeabilit	Other Physical	RECOV	
7. 7.	X	X		X						X		
2 DISPOSITION OF HOLE	BACKFIL	TED .	MONITORING WELL	OTH (SPEC	Fn 2	3. SIGNA	TURE OF INSP		,			
	. ,						1%	Sich		Finh	,	
		21	* + :	<u> </u>	1 20 51					REMARKS	2	
DEPTH :	DES		F MATERIALS	3	SCREEN RES	LTS C	GEOTECH SAMPLE/ ORE BOX NO.		% CORE RECOVERY			
- 9" A	who II	С.	,		. 6.		8.	E.		h.		
			ight brown		6.1	•	•		! !			
l- sw.	with go	ave / l	ight brow	in, dry.		•						
mana	r, fine	grada	'q''	/_								
α	~ pr	ure 100	, J. w.									
= clayes	sand, l	light bri	eury M.	shiff,								
	W/ 546	a se ber	. slightly	noist	Ì					Frost til 3	,	
3 - Filme sin		See to the							1			
3 - Filme sin	y sad,	light be	own, ship	anga la	'				Wall	_		
3 fine sn	y sad,	light be	own, sub	anger las	0.0				41911			
3 fineson grave 11 Tighth	y send,	light be fike on	own, sub ined, 16 a	anger las	0.0	-			41911			
3 fineson grave 11 Tighth	y sad,	light be fike on	own, sub	anger las	0.6				41q11			
3 fineson grave 11 Tighth	y send,	light be fike on	own, sub	anger las	- 01				4iqu			
3 fineson 4 grave li 5-lightli 5	y sad, roist, about	light bi fike ga	own, sublined, 16 ⁸	anga la/	0.6				Yiqu			
Fineson Grave II Flight II Sight III	y sand, i moist, above 3	light bi fike ga	own, sub	anga la/	0.6				Yiqu			
3 fineson 9 rave li 5 lightli	y sand, invist, about 1	light be five you	own, sublined, 16th sould slight	agailar	0.6				Aigu			
3 fineson grave 11 Stight 11 Source 11 Stight 11 Source 11 Stight 11 Source	y sand, invist, and we will brown, shift or cla	light be five you	own, sub ined, 16 ⁸	agailar	0.6				41q11 ~			
3 fineson 9 rave li 5 lightli	y sand, invist, and we will brown, shift or cla	light be five you	own, sublined, 16th sould slight	agailar	0.6							
3 fineson 9 rave li 18 as 6 114 14 7 8 No	y sand, invist, and well with from stiff and cla	Light be Five you , clayes y, brow	sond slig	agailar	0.6							
3 fineson 9 rave li 18 as 6 114 14 7 8 No	y sand, invist, and well with from stiff and cla	Light be Five you , clayes y, brow	own, sublined, 16th sould slight	agailar	0.6							
3 fineson 9 rave li 18 as 6 114 14 7 8 No	y sand, invist, and well with from stiff and cla	Light be Five you , clayes y, brow	sond slig	agailar	0.6							

!

-

/

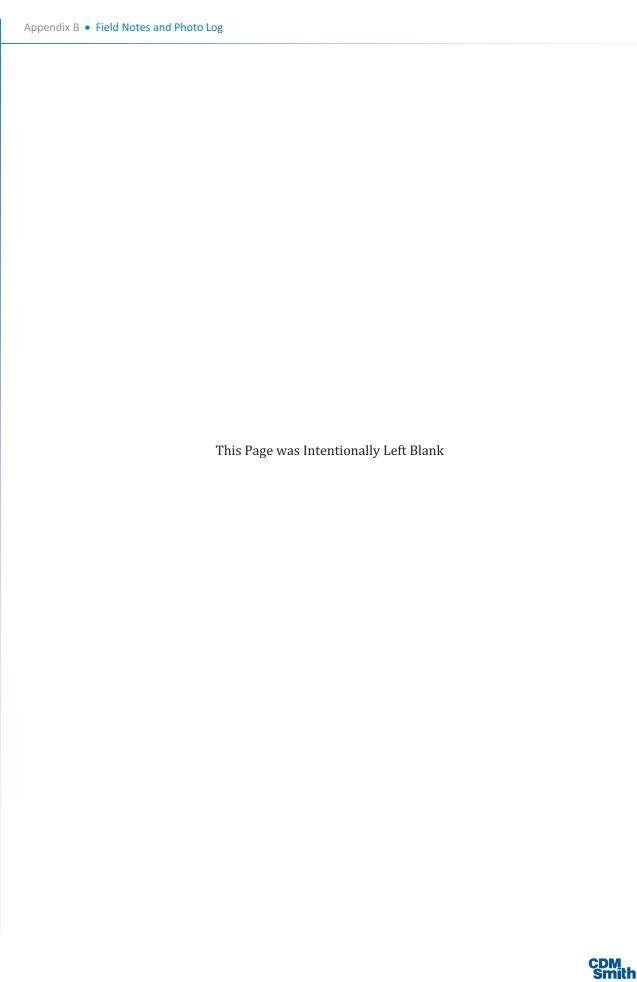
		DB	ILLING	100	2	**		140	LE NO.
			ILLING	LU				5	3-6
1. COMPANY NAME	Programs Con	nombles		2. (DRILLING SUE	CONTRACTO	מכל		EEŢ 1
3. PROJECT				4.1	OCATION			OF	SHEETS
E MANAGE OF THE	Central A	er Phase	24	. '	5	i-cent		where	
5. NAME OF DRILLER	Byran S	challe ((AEI)	6. M	MNUFACTUR	ER'S DESIGNA		((0)	
7. SIZES AND TYPES (OF DRILLING	2 10 00	Te boss	7 8 H	OLELOCATIO	N	GEOPLOF	e 6600	
			C 760 11	<u>~</u>		28	'-6	•	
	· · · · · · · · · · · · · · · · · · ·			9. St	JRFACE ELEV	ATION (Elevati	ion top of hole)		
	***************************************		•	10.4	DATE STARTE	D		. DATE COMPLETED	
					1/1/	12	["	1/6/13	
12. OVERBURDEN TH	CKNESS			15. D	EPTH GROU	VOWATER EN	COUNTERED	0070	***
		*			· · · · · · · · · · · · · · · · · · ·		NA		٠
ia. DEPTH DRILLED IN	ALC KOCK			16. D	RECTION OF	HOLE C	10"		··········
4. TOTAL DEPTH OF	HOLE CI			-					
<u> </u>	8			17. 1	OTAL NUMBE	R OF CORE B	OXES		
8. GEOTHECHNICAL	SAMPLES	DISTURBED	UNI	XSTURBE	19. TO	TAL NUMBER	OF SPUT SPO	ON SAMPLES	
····	·								
D. SAMPLES FOR THEMICAL ANALYSIS	BRCRA VOCE	SVOC# TPH	Hq	Pest/ PCBs	Herbs	RADs	Triaxial Permeabilit	Other Physical	ZI.TOTAL COR
4	111				 	1	4 - 41 HAD-II DINK	The state of the s	, and the last
	XX	$ \lambda $	1					1	%
P POSITION	BACKFILLED	MONITORING OF	THER 2	. SIGNAT	URE OF INSP	ECTOR		1 ,)	<u>. </u>
" NOCE	BHOWILLED	WELL (SP	ECIFY)					0 1	
·	\sim				1//	e.h.		Lisch	0
		A 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		<u> </u>		-074		FREC	~(
DEPTH	DESCRIPTION	OF MATERIALS	FIEL SCREE RESU FJ	NING G	EOTECH AMPLE/ RE BOX NO.	ANALYTICAL SAMPLE NO.	RECOVERY	REMARKS	
b.	Ç.	* /	P.	5 2	e.	E,	g.	h.	
- 6" /	sphall-								
	- 11 1		0.5	. 1	. []		
' — 3''' ''	ght brown, sm	o Wysam			[:	
- 4	ight brown, san ry, sub round rean of white	Cha		1	}				- <u>-</u>
, ∃ ຈ",	sean of while	South of the	13 1 3		. [
\ \\ \		I CC I	שובון שייי						
_ 크 / ^ ^	yer lean day. It	grage street	13,					-	_
2 = -			1				- [Frost at 3	· =
12" gra	welly send, slay,	My MISH, tim	et 10.0		1		- 1		
, I couse,	, sub anglibar,	it prom				i	419"		
- 12" more	^					, . .	-		-
- NO WHE	N i		0.6			j			
			.			İ			<u></u>
Cu	of rock, whitely	an grate?							
To some	in took would								=
401	ng slightly mai	# broken			. [. [1		=
	Je of the	17 11 0 11 011		- 1		· [
ال المنابعة المنابعة المنابعة المنابعة المنابعة المنابعة المنابعة المنابعة المنابعة المنابعة المنابعة المنابعة		•				.	Į		
-						1.	ا بيران	•	
7711 66	white, ganite,		0.0		- 1		2'16"		<u>-</u> 1
141 (1)	ock' scour on p	cicle nacho sill		.		<u> </u>	-		
- 4	a contract of the contract of		7700				Ì		
GMPes	ite Samples	Vac- c			• [•				_
	Asses	Them !							
\exists		bottom	İ					•	
\exists	•				İ				_
									=
JECT		•						11010140	

(____

Appendix B

Field Notes and Photo Log





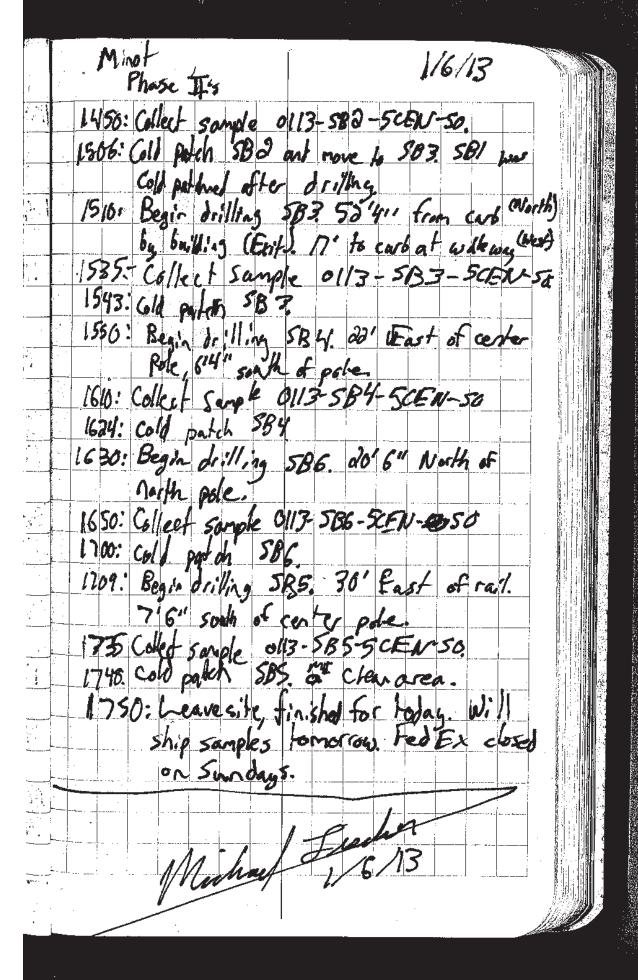


Minot 1/6/13 Phase II's Author: Michael Fischer (MSF) Onsite: MJF, Gordon Horn (ODM snith)
Byran Schultz (AET) Weather: Partly Cloudy, high of 27%, all lasks! Soil borings PPE: Level D 0810: Arrive at 2051st St. Conduct site with, and check utilities. 6836: Examine SBI. location Location under pile of snow. Moved to left in side guest sail Approximately 8 At east of gate, 577

north of guard Gal.

0840: Conduct site Health and surfety meeting. Gordon leaves to get hard hat Prill rig warming up. 6855: Begin drilling at SRI. 0100: To depth 8ft 0930: Collect Souple 0113-581-205157-68 1000: Begin drilling at SB2 9 ft east of ord corner 1265 1, 7 A north of corner post. 1625- Collect sample 0113-5BA-205157-50 1645: Move to 583. 1055: Besin drilling \$B3. Rete Muphs with the hot to know that it's show up tarking let developer Mihal Franke

Minot Phase I's 1/6/13 1120 · Collect sample 0113- 503-205 157-50 SB-84 is 425' north of wille power po 15' east. Pete Murphy leaves. 1142: Begin drilling 8 B4 583 is 66'10" north or South good sail, 40'4" east of west cail. 1215: Collect 0/13-504-265/57-50. VOCS acutolog composited collected Bottom are placed in comperife bowl prior to USC suple collection 1223: Byron cold patches SBI - 584 Move to SB6. 7218" North of west pole. 14' Ext of we 1227: Begin drilling SBG. 1255. Collect 0113 - 205 157-50. Byran call patches hole 1368: Begin drilling 5B5 19:4" south north force, 11' 4" east of wall sence. 1330: Collect sample 6113 584585-205151-50 1335: Move to 5 Central Ave site Conduct steak 1350: Selap and begin doiling SB1. \$7.5' East of was fail, 477 north of rail 1406: Robert Haverson own lots, show up Discussed willities and leaves. 1415: Collect sample 0113-581-5CEN-50.
1430: Begin drilling SBD 25' East ofrail 500 with of cail Michael Fish



City of Minot 5 Central Avenue West, Minot, ND Photo Log

Date:

January 6, 2013

Filename:

5 Central Ave_SB-1 (3).JPG

Borehole: SB-1

Direction:

N/A

Photo Description:

Samples from boreholes were composited using a steel bowl and trowel prior to collecting samples.



Date:

January 6, 2013

Filename:

5 Central Ave_SB-2 (2).JPG

Borehole: SB-2

Direction:

West

Photo Description:

Final borehole locations were confirmed by measuring locations from stationary landmarks such as guard rails.





City of Minot 5 Central Avenue West, Minot, ND Photo Log

Date:

January 6, 2013

Filename:

5 Central Ave_SB-3 (9).JPG

Borehole: SB-3

Direction: N/A

Photo Description:

Typical soil encountered at 5
Central Avenue West was sand with
gravel. Refer to boring logs for
complete USCS classification



Date:

January 6, 2013

Filename:

5 Central Ave_SB-5 (15).JPG

Borehole: SB-5

Direction:

N/A

Photo Description:

Occasional bands of sandy clay or clay with sand were also encountered in SB-4, SB-5, and SB-6 at varying depths.





City of Minot 5 Central Avenue West, Minot, ND Photo Log

Date:

January 6, 2013

Filename:

5 Central Ave_SB-6 (11).JPG

Borehole: SB-6

Direction:

N/A

Photo Description:

Trace cobbles were encountered in several boreholes. The example shown is from SB-5 and was likely either brick or scoria (red rock on right side of photo).



Date:

January 6, 2013

Filename:

5 Central Ave_SB-6 (12).JPG

Borehole: SB-6

Direction:

N/A

Photo Description:

After completion of drilling, the surface was restored using a cold asphalt patch.





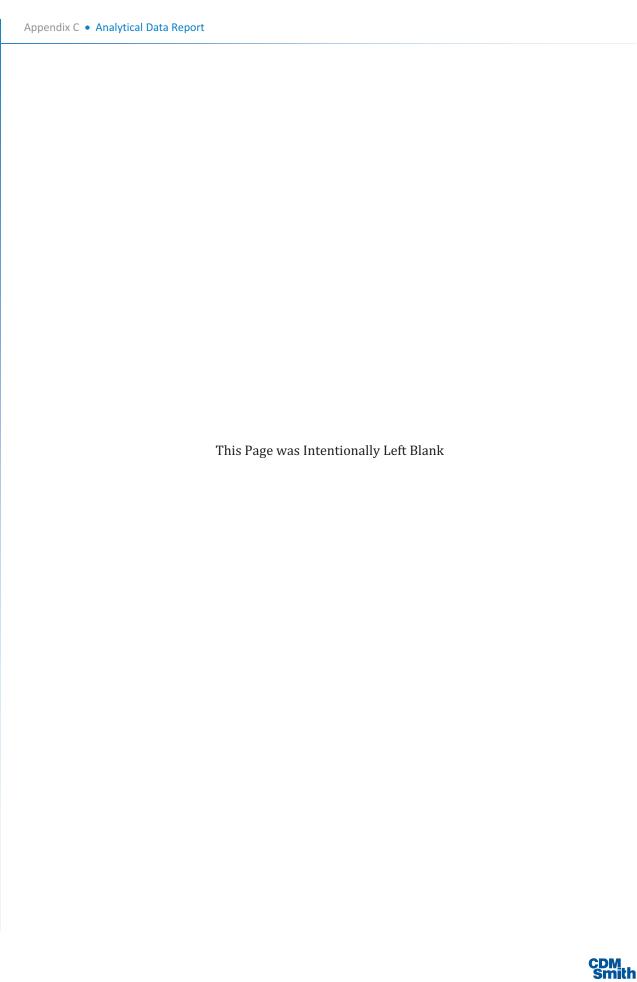
Appendix C

Analytical Data Report

The following paragraph is the data validation and useability summary of data for the limited Phase II ESAs conducted at two sites for the same client (205 1st Street SW, Minot, North Dakota and 5 Central Avenue West, Minot, North Dakota).

Twelve sediment samples were received intact and properly preserved on January 8, 2013 by Test America in Arvada, Colorado. All holding times were met with the exception of the GC/MS volatile analysis for three samples, 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO, and 0113-SB3-2051ST-SO. It should be noted that one of these samples was received past the 48 hour holding time and the other two were received within two hours of holding time expiration. The laboratory promptly prepared samples 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO, and 0113-SB3-2051ST-SO, so that the holding time exceedances were no more than three hours past the method specified holding time for sample preparation by EPA Method 5035. The volatiles results for the samples prepared past the holding time are reported as estimated values and are qualified with a "UJ" or "J". All method blanks and laboratory control samples were within acceptance criteria for all analytical methods. The surrogate recoveries for diesel range organics, gasoline range organics, volatile organic compounds, and semivolatile organic analyses were all within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries and relative percent differences (RPD) met acceptance criteria, with the exception of diesel range organics and mercury analysis. Both MS and MSD recoveries for diesel range organics and the MSD recovery for mercury were outside recovery limits, while the RPD failed for both methods. It is suspected that matrix interference may have led to the failures in spike recoveries and precision, therefore the diesel range organics and mercury results of the sample used to prepare the MS/MSD, 0113-SB1-2051ST-SO, are reported as estimated values with a "J" qualifier. There were three samples; 0113-SB2-2051ST-SO, 0113-SB3-2051ST-SO, 0113-SB6-5CEN-SO; where benzo[b]fluoranthene and benzo[k]fluoranthene could not be resolved due to matrix interference. The laboratory quantitated the unresolved peaks and reported the results as benzo[b]fluoranthene. The laboratory reported benzo[k]fluoranthene as not detected, acknowledging that the compound could be present. The results for benzo[b]fluoranthene and benzo[k]fluoranthene were qualified "JN" and "UJN", respectively, to qualify them as tentatively identified and estimated values. The data has been qualified as indicated and found to be 100% useable.







2

3

5

7

10

12

13



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street Arvada, CO 80002 Tel: (303)736-0100

TestAmerica Job ID: 280-37602-1

Client Project/Site: MINOT (RENTALINFR.IMAGINELMI)

For:

CDM Smith, Inc. 125 South Wacker Drive Suite 600 Chicago, Illinois 60606

Attn: John Grabs

Authorized for release by: 1/10/2013 3:44:51 PM

Kae Yoder Project Manager II

kae.yoder@testamericainc.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at: www.testamericainc.com The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: CDM Smith, Inc.
Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	5
Detection Summary	6
Method Summary	10
Sample Summary	11
Client Sample Results	12
Surrogate Summary	45
QC Sample Results	47
QC Association	61
Chronicle	67
Chain of Custody	73
Receint Checklists	76

5

8

10

12

13

Case Narrative

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

3

Job ID: 280-37602-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: CDM Smith, Inc.

Project: MINOT (RENTALINFR.IMAGINELMI)

Report Number: 280-37602-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

Please note that Non-Detect (ND) results have been evaluated down to the Method Detection Limit (MDL) and should be considered ND at the MDL.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 1/8/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 5.0° C, 5.2° C and 5.4° C.

GC/MS VOLATILES - SW846 8260B

The 5035 prep for samples 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO and 0113-SB3-2051ST-SO, requesting VOC 5035/8260B analysis, was performed outside the recommended 48 hour sample holding time. The samples were received with insufficient time remaining for the laboratory to perform the prep within the holding time. It is TestAmerica's policy to analyze all samples within holding times; however, the laboratory cannot guarantee that hold times will be met when samples are received with less than half the hold time remaining.

The method required MS and MSD analysis could not be performed for prep batches 280-154981 and 280-154985, due to insufficient sample volume submitted by the client. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

No other anomalies were encountered.

GC/MS SEMIVOLATILES - SW846 8270C - PAHs

Due to the nature of the sample matrix, samples 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO, 0113-SB3-2051ST-SO, 0113-SB4-2051ST-SO and 0113-SB6-2051ST-SO required dilutions prior to analysis. The reporting limits have been elevated accordingly. The laboratory noted that the sample extracts were viscous, and analysis at less diluted concentrations would jeopardize the integrity of the instrument.

Surrogate recoveries have been "D" flagged in samples 0113-SB1-2051ST-SO, 0113-SB2-2051ST-SO, 0113-SB3-2051ST-SO, 0113-SB4-2051ST-SO and 0113-SB6-2051ST-SO, as the recoveries obtained are calculated from diluted samples and are not considered reliable.

Compounds Benzo(b)fluoranthene and Benzo(k)fluoranthene were unresolved in several samples due to matrix interferences. It can be noted that these compounds were adequately resolved in associated standards, indicating the instrument is achieving separation. The combined peak was reported as Benzo(b)fluoranthene, while Benzo(k)fluoranthene was reported as undetected even though it may be present. Associated results have been "K" flagged.

No other nomalies were encountered.

Case Narrative

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Job ID: 280-37602-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

GASOLINE RANGE ORGANICS - SW846 8015C

No anomalies were encountered.

DIESEL RANGE ORGANICS - SW846 8015C

The MS/MSD performed on sample 0113-SB1-2051ST-SO exhibited percent recoveries and RPD data outside the control limits. The LCS was within control limits.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

The serial dilution performed on sample 0113-SB1-2051ST-SO indicates that physical and chemical interferences are present for Lead.

No other anomalies were encountered.

-

3

А

6

7

8

9

10

12

13

Definitions/Glossary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

MS or MSD exceeds the control limits

RPD of the MS and MSD exceeds the control limits

TestAmerica Job ID: 280-37602-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
Н	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
001/04	

GC VOA

Qualifier	Qualifier Description							
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.							

GC Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	
Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB1-2051ST-SO

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	93	J	1700	90	ug/Kg	5	₽	8270C	Total/NA
Pyrene	130	J	1700	64	ug/Kg	5	₽	8270C	Total/NA
GRO (C6-C10)	0.47	J	1.3	0.35	mg/Kg	1	₽	8015C	Total/NA
DRO (C10-C28)	270		4.3	0.73	mg/Kg	1	₽	8015C	Total/NA
Arsenic	8.4		1.9	0.64	mg/Kg	1	₩	6010B	Total/NA
Barium	240		0.96	0.073	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.37	J	0.48	0.040	mg/Kg	1	₽	6010B	Total/NA
Chromium	11		1.4	0.056	mg/Kg	1	₩	6010B	Total/NA
Lead	27		0.77	0.26	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.065		0.017	0.0055	mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: 0113-SB2-2051ST-SO

Client Sample ID: 0113-S	B2-2051ST-SO					La	ab	Sample II	D: 280-37602-2
_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	JH	24	6.3	ug/Kg	1	₩	8260B	Total/NA
2-Butanone (MEK)	5.8	JH	24	2.2	ug/Kg	1	₩	8260B	Total/NA
Benzo[a]anthracene	150	J	1800	110	ug/Kg	5	₩	8270C	Total/NA
Benzo[a]pyrene	130	J	1800	110	ug/Kg	5	₽	8270C	Total/NA
Benzo[b]fluoranthene	270	JK	1800	140	ug/Kg	5	₩	8270C	Total/NA
Benzo[g,h,i]perylene	85	J	1800	85	ug/Kg	5	₩	8270C	Total/NA
Chrysene	150	J	1800	140	ug/Kg	5	₽	8270C	Total/NA
Fluoranthene	230	J	1800	190	ug/Kg	5	₩	8270C	Total/NA
Phenanthrene	100	J	1800	91	ug/Kg	5	₩	8270C	Total/NA
Pyrene	230	J	1800	64	ug/Kg	5	₩	8270C	Total/NA
GRO (C6-C10)	0.60	J	1.3	0.35	mg/Kg	1	₩	8015C	Total/NA
DRO (C10-C28)	51		4.2	0.72	mg/Kg	1	₽	8015C	Total/NA
Arsenic	9.7		2.0	0.66	mg/Kg	1	₽	6010B	Total/NA
Barium	190		0.99	0.076	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.32	J	0.50	0.041	mg/Kg	1	₽	6010B	Total/NA
Chromium	14		1.5	0.058	mg/Kg	1	₽	6010B	Total/NA
Lead	23		0.80	0.27	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.063		0.016	0.0051	mg/Kg	1	₩	7471A	Total/NA

Client Sample ID: 0113-SB3-2051ST-SO

<u> </u>								<u> </u>	
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	140	J	1800	95	ug/Kg	5	₩	8270C	Total/NA
Anthracene	250	J	1800	95	ug/Kg	5	₽	8270C	Total/NA
Benzo[a]anthracene	1000	J	1800	110	ug/Kg	5	₽	8270C	Total/NA
Benzo[a]pyrene	1000	J	1800	110	ug/Kg	5	₽	8270C	Total/NA
Benzo[b]fluoranthene	1500	JK	1800	150	ug/Kg	5	₽	8270C	Total/NA
Benzo[g,h,i]perylene	660	J	1800	89	ug/Kg	5	₽	8270C	Total/NA
Chrysene	1000	J	1800	150	ug/Kg	5	₩	8270C	Total/NA
Dibenz(a,h)anthracene	180	J	1800	110	ug/Kg	5	₽	8270C	Total/NA
Fluoranthene	2200		1800	200	ug/Kg	5	₽	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	530	J	1800	120	ug/Kg	5	₽	8270C	Total/NA
Phenanthrene	1100	J	1800	95	ug/Kg	5	₽	8270C	Total/NA
Pyrene	2500		1800	68	ug/Kg	5	₽	8270C	Total/NA
DRO (C10-C28)	48		4.5	0.76	mg/Kg	1	₽	8015C	Total/NA
Arsenic	6.9		1.9	0.63	mg/Kg	1	₽	6010B	Total/NA
Barium	200		0.96	0.073	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.37	J	0.48	0.039	mg/Kg	1	₽	6010B	Total/NA

TestAmerica Denver

Lab Sample ID: 280-37602-3

Detection Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB3-2051ST-SO (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12		1.4	0.055	mg/Kg	1	₩	6010B	Total/NA
Lead	32		0.76	0.26	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.094		0.021	0.0070	mg/Kg	1	₽	7471A	Total/NA

lient Sample ID: 0113-SB4	I-2051ST-SO			Lab Sample IL): 280-37602 - 4
Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type

Prep Type
Total/NA
Total/NA
Total/NA
Total/NA
Total/NA
Total/NA
Total/NA
Total/NA
_

Client Sample ID: 0113-SB3-5CEN-SO

Lab Sample ID: 280-37602-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.2	4.6	0.54	ug/Kg		₩	8260B	Total/NA
DRO (C10-C28)	0.90 J	4.0	0.68	mg/Kg	1	₩	8015C	Total/NA
Arsenic	6.9	1.9	0.62	mg/Kg	1	₽	6010B	Total/NA
Barium	140	0.94	0.072	mg/Kg	1	₽	6010B	Total/NA
Cadmium	0.24 J	0.47	0.039	mg/Kg	1	₽	6010B	Total/NA
Chromium	9.3	1.4	0.055	mg/Kg	1	₩	6010B	Total/NA
Lead	3.8	0.75	0.25	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.023	0.023	0.0073	mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: 0113-SB4-5CEN-SO

Lab Sample ID: 280-37602-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		1.9	0.64	mg/Kg		₩	6010B	Total/NA
Barium	97		0.96	0.073	mg/Kg	1	₽	6010B	Total/NA
Cadmium	0.25	J	0.48	0.039	mg/Kg	1	₩	6010B	Total/NA
Chromium	7.6		1.4	0.056	mg/Kg	1	₽	6010B	Total/NA
Lead	3.2		0.77	0.26	mg/Kg	1	₽	6010B	Total/NA
Selenium	0.84	J	1.3	0.83	mg/Kg	1	₩	6010B	Total/NA
Mercury	0.022		0.019	0.0062	mg/Kg	1	\$	7471A	Total/NA

Client Sample ID: 0113-SB6-5CEN-SO

Lab Sample ID: 280-37602-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	29	JK	350	28	ug/Kg		₩	8270C	Total/NA
Phenanthrene	23	J	350	18	ug/Kg	1	₽	8270C	Total/NA
Pyrene	33	J	350	13	ug/Kg	1	₽	8270C	Total/NA
DRO (C10-C28)	2.2	J	4.2	0.70	mg/Kg	1	₽	8015C	Total/NA
Arsenic	14		1.8	0.59	mg/Kg	1	₽	6010B	Total/NA
Barium	140		0.90	0.068	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.36	J	0.45	0.037	mg/Kg	1	₽	6010B	Total/NA
Chromium	9.2		1.3	0.052	mg/Kg	1	₽	6010B	Total/NA
Lead	7.8		0.72	0.24	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.023		0.021	0.0070	mg/Kg	1	₽	7471A	Total/NA

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-8

Lab Sample ID: 280-37602-9

Lab Sample ID: 280-37602-10

Lab Sample ID: 280-37602-11

Lab Sample ID: 280-37602-12

Client Sample ID: 0113-SB5-5CEN-SO

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	1.0	J	4.0	0.68	mg/Kg	1	₽	8015C	Total/NA
Arsenic	6.6		2.0	0.66	mg/Kg	1	₽	6010B	Total/NA
Barium	150		1.0	0.076	mg/Kg	1	₽	6010B	Total/NA
Cadmium	0.25	J	0.50	0.041	mg/Kg	1	₽	6010B	Total/NA
Chromium	7.9		1.5	0.058	mg/Kg	1	₽	6010B	Total/NA
Lead	3.7		0.80	0.27	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.023		0.018	0.0058	mg/Kg	1	φ.	7471A	Total/NA

Client Sample ID: 0113-SB6-2051ST-SO

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	57	4.1	0.70	mg/Kg	1	₩	8015C	Total/NA
Arsenic	7.8	1.8	0.59	mg/Kg	1	₽	6010B	Total/NA
Barium	130	0.90	0.068	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.23 J	0.45	0.037	mg/Kg	1	₽	6010B	Total/NA
Chromium	11	1.3	0.052	mg/Kg	1	₩	6010B	Total/NA
Lead	3.5	0.72	0.24	mg/Kg	1	₩	6010B	Total/NA
Mercury	0.028	0.018	0.0059	mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: 0113-SB5-2051ST-SO

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	1.2	J	4.0	0.68	mg/Kg	1	₩	8015C	Total/NA
Arsenic	7.1		2.1	0.68	mg/Kg	1	₩	6010B	Total/NA
Barium	170		1.0	0.078	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.27	J	0.51	0.042	mg/Kg	1	₽	6010B	Total/NA
Chromium	28		1.5	0.060	mg/Kg	1	₽	6010B	Total/NA
Lead	4.4		0.82	0.28	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.031		0.018	0.0057	mg/Kg	1	₽	7471A	Total/NA

Client Sample ID: 0113-SB1-5CEN-SO

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.9	J	5.4	1.7	ug/Kg	1	₩	8260B	Total/NA
Phenanthrene	17	J	330	17	ug/Kg	1	₩	8270C	Total/NA
Pyrene	21	J	330	12	ug/Kg	1	₽	8270C	Total/NA
DRO (C10-C28)	8.0		4.0	0.68	mg/Kg	1	₽	8015C	Total/NA
Arsenic	6.3		1.9	0.64	mg/Kg	1	₽	6010B	Total/NA
Barium	110		0.96	0.073	mg/Kg	1	₩	6010B	Total/NA
Cadmium	0.24	J	0.48	0.039	mg/Kg	1	₽	6010B	Total/NA
Chromium	8.9		1.4	0.056	mg/Kg	1	₽	6010B	Total/NA
Lead	3.7		0.77	0.26	mg/Kg	1	₽	6010B	Total/NA
Mercury	0.020		0.017	0.0054	mg/Kg	1	\$	7471A	Total/NA

Client Sample ID: 0113-SB2-5CEN-SO

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		1.9	0.63	mg/Kg	1	₩	6010B	Total/NA
Barium	110		0.95	0.073	mg/Kg	1	₽	6010B	Total/NA
Cadmium	0.26	J	0.48	0.039	mg/Kg	1	₽	6010B	Total/NA
Chromium	9.9		1.4	0.055	mg/Kg	1	₽	6010B	Total/NA
Lead	3.9		0.76	0.26	mg/Kg	1	₩	6010B	Total/NA

TestAmerica Denver

Page 8 of 76

0

5

7

0

10

12

13

Detection Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB2-5CEN-SO (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fa	c D	Method	Prep Type
Mercury	0.022		0.016	0.0053	mg/Kg		1 ☆	7471A	Total/NA

Λ

5

6

Q

9

10

12

13

Method Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL DEN
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL DEN
6010B	Metals (ICP)	SW846	TAL DEN
7471A	Mercury (CVAA)	SW846	TAL DEN
Moisture	Percent Moisture	EPA	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

3

4

U

0

9

10

11

12

Sample Summary

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-37602-1	0113-SB1-2051ST-SO	Solid	01/06/13 09:30	01/08/13 09:00
280-37602-2	0113-SB2-2051ST-SO	Solid	01/06/13 10:25	01/08/13 09:00
280-37602-3	0113-SB3-2051ST-SO	Solid	01/06/13 11:20	01/08/13 09:00
280-37602-4	0113-SB4-2051ST-SO	Solid	01/06/13 12:15	01/08/13 09:00
280-37602-5	0113-SB3-5CEN-SO	Solid	01/06/13 15:35	01/08/13 09:00
280-37602-6	0113-SB4-5CEN-SO	Solid	01/06/13 16:10	01/08/13 09:00
280-37602-7	0113-SB6-5CEN-SO	Solid	01/06/13 16:50	01/08/13 09:00
280-37602-8	0113-SB5-5CEN-SO	Solid	01/06/13 17:35	01/08/13 09:00
280-37602-9	0113-SB6-2051ST-SO	Solid	01/06/13 12:55	01/08/13 09:00
280-37602-10	0113-SB5-2051ST-SO	Solid	01/06/13 13:30	01/08/13 09:00
280-37602-11	0113-SB1-5CEN-SO	Solid	01/06/13 14:15	01/08/13 09:00
280-37602-12	0113-SB2-5CEN-SO	Solid	01/06/13 14:50	01/08/13 09:00

6

7

8

9

10

12

13

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: 0113-SB1-2051ST-SO
Date Collected: 01/06/13 09:30

Date Received: 01/08/13 09:00								Percent Soli	
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Acetone	ND	Н	21	5.6	ug/Kg	\$	01/08/13 11:07	01/08/13 14:45	
Benzene	ND	Н	5.2		ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Bromoform	ND	Н	5.2	0.24	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Bromomethane	ND	Н	10	0.52	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
2-Butanone (MEK)	ND	Н	21	1.9	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Carbon disulfide	ND	Н	5.2	0.44	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Carbon tetrachloride	ND	Н	5.2	0.66	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Chlorobenzene	ND	Н	5.2	0.56	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Chlorobromomethane	ND	Н	5.2	0.31	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Chlorodibromomethane	ND	Н	5.2	0.59	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
Chloroethane	ND	Н	10	0.93	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
Chloroform	ND	Н	10	0.30	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
Chloromethane	ND	Н	10	0.80	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
cis-1,2-Dichloroethene	ND	Н	2.6	0.58	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
cis-1,3-Dichloropropene	ND	Н	5.2	1.3	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
Cyclohexane	ND	Н	5.2	0.42	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
1,2-Dibromo-3-Chloropropane	ND	Н	10	0.63	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
1,2-Dibromoethane	ND	Н	5.2	0.54	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
1,2-Dichlorobenzene	ND	Н	5.2	0.47	ug/Kg		01/08/13 11:07	01/08/13 14:45	
,3-Dichlorobenzene	ND	Н	5.2		ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
1,4-Dichlorobenzene	ND	Н	5.2	0.81	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Dichlorobromomethane	ND	Н	5.2		ug/Kg	φ	01/08/13 11:07	01/08/13 14:45	
Dichlorodifluoromethane	ND	Н	10		ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
1,1-Dichloroethane	ND	Н	5.2	0.22	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
1,2-Dichloroethane	ND	Н	5.2		ug/Kg		01/08/13 11:07	01/08/13 14:45	
1,1-Dichloroethene	ND	Н	5.2		ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
1,2-Dichloropropane	ND		5.2		ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
1,4-Dioxane	ND	Н	520		ug/Kg		01/08/13 11:07	01/08/13 14:45	
Ethylbenzene	ND		5.2		ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
2-Hexanone	ND		21		ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
sopropylbenzene	ND		5.2		ug/Kg	.	01/08/13 11:07	01/08/13 14:45	
Methyl acetate	ND		10		ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
Methylcyclohexane	ND		5.2		ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	
Methylene Chloride	ND		5.2		ug/Kg		01/08/13 11:07	01/08/13 14:45	
4-Methyl-2-pentanone (MIBK)	ND		21		ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
Methyl tert-butyl ether	ND		21		ug/Kg	#	01/08/13 11:07	01/08/13 14:45	
m-Xylene & p-Xylene	ND		2.6		ug/Kg		01/08/13 11:07	01/08/13 14:45	
o-Xylene	ND		2.6		ug/Kg ug/Kg		01/08/13 11:07	01/08/13 14:45	
Styrene	ND ND		5.2		ug/Kg ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	
								01/08/13 14:45	
1,1,2,2-Tetrachloroethane	ND		5.2		ug/Kg		01/08/13 11:07		
Tetrachloroethene	ND		5.2		ug/Kg	Ti	01/08/13 11:07	01/08/13 14:45	
Toluene	ND		5.2		ug/Kg		01/08/13 11:07	01/08/13 14:45	
rans-1,2-Dichloroethene	ND		2.6		ug/Kg	ф ж	01/08/13 11:07	01/08/13 14:45	
rans-1,3-Dichloropropene	ND		5.2		ug/Kg	ф ж	01/08/13 11:07	01/08/13 14:45	
1,2,3-Trichlorobenzene	ND		5.2		ug/Kg		01/08/13 11:07	01/08/13 14:45	
1,2,4-Trichlorobenzene	ND		5.2		ug/Kg	*	01/08/13 11:07	01/08/13 14:45	
1,1,1-Trichloroethane	ND		5.2		ug/Kg	₩.	01/08/13 11:07	01/08/13 14:45	
1,1,2-Trichloroethane	ND	Н	5.2	0.92	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB1-2051ST-SO Lab Sample ID: 280-37602-1

Date Collected: 01/06/13 09:30

Matrix: Solid Percent Solids: 93.5

Date Received: 01/08/13 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	10	1.1	ug/Kg	*	01/08/13 11:07	01/08/13 14:45	1
1,1,2-Trichlorotrifluoroethane	ND	Н	21	0.47	ug/Kg	₽	01/08/13 11:07	01/08/13 14:45	1
Vinyl chloride	ND	Н	5.2	1.4	ug/Kg	₩	01/08/13 11:07	01/08/13 14:45	1

Surrogate	%Recovery	Qualifier L	imits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	7	6 - 127	01/08/13 11:07	01/08/13 14:45	1
Dibromofluoromethane (Surr)	93	7:	5 - 121	01/08/13 11:07	01/08/13 14:45	1
1,2-Dichloroethane-d4 (Surr)	86	56	8 - 140	01/08/13 11:07	01/08/13 14:45	1
Toluene-d8 (Surr)	102	80	0 - 126	01/08/13 11:07	01/08/13 14:45	1

Client Sample ID: 0113-SB2-2051ST-SO Lab Sample ID: 280-37602-2

Date Collected: 01/06/13 10:25

Matrix: Solid

Date Received: 01/08/13 09:00 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Percent Soli Analyzed	ds: 92.3 Dil Fac
Acetone	13	JH	24	6.3	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
Benzene	ND	Н	5.9	0.55	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Bromoform	ND	Н	5.9	0.27	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Bromomethane	ND	Н	12	0.59	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
2-Butanone (MEK)	5.8	JH	24	2.2	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Carbon disulfide	ND	Н	5.9	0.50	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Carbon tetrachloride	ND	Н	5.9	0.74	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Chlorobenzene	ND	Н	5.9	0.64	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Chlorobromomethane	ND	Н	5.9	0.35	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Chlorodibromomethane	ND	Н	5.9	0.67	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Chloroethane	ND	Н	12	1.0	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Chloroform	ND	Н	12	0.34	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Chloromethane	ND	Н	12	0.91	ug/Kg		01/08/13 11:07	01/08/13 15:45	1
cis-1,2-Dichloroethene	ND	Н	2.9	0.66	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
cis-1,3-Dichloropropene	ND	Н	5.9	1.5	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Cyclohexane	ND	Н	5.9	0.47	ug/Kg		01/08/13 11:07	01/08/13 15:45	1
1,2-Dibromo-3-Chloropropane	ND	Н	12	0.71	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
1,2-Dibromoethane	ND	Н	5.9	0.61	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
1,2-Dichlorobenzene	ND	Н	5.9	0.53	ug/Kg	₩.	01/08/13 11:07	01/08/13 15:45	1
1,3-Dichlorobenzene	ND	Н	5.9	0.57	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
1,4-Dichlorobenzene	ND	Н	5.9	0.92	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Dichlorobromomethane	ND	Н	5.9	0.26	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Dichlorodifluoromethane	ND	Н	12	0.61	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
1,1-Dichloroethane	ND	Н	5.9	0.25	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
1,2-Dichloroethane	ND	Н	5.9	0.83	ug/Kg	φ	01/08/13 11:07	01/08/13 15:45	1
1,1-Dichloroethene	ND	Н	5.9	0.70	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
1,2-Dichloropropane	ND	Н	5.9	0.65	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
1,4-Dioxane	ND	H	590	66	ug/Kg		01/08/13 11:07	01/08/13 15:45	1
Ethylbenzene	ND	Н	5.9	0.79	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
2-Hexanone	ND	Н	24	5.8	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Isopropylbenzene	ND	Н	5.9	0.70	ug/Kg		01/08/13 11:07	01/08/13 15:45	1
Methyl acetate	ND	Н	12	3.2	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Methylcyclohexane	ND	Н	5.9	0.50	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Methylene Chloride	ND	Н	5.9	1.9	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
4-Methyl-2-pentanone (MIBK)	ND	Н	24	5.1	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Methyl tert-butyl ether	ND	Н	24	0.40	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB2-2051ST-SO

Date Collected: 01/06/13 10:25

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND H

ND H

Lab Sample ID: 280-37602-2

01/08/13 15:45

01/08/13 15:45

Matrix: Solid

Percent Solids: 92.3

Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND	H	2.9	1.2	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
o-Xylene	ND	Н	2.9	0.72	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
Styrene	ND	Н	5.9	0.74	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,1,2,2-Tetrachloroethane	ND	Н	5.9	0.72	ug/Kg	\$	01/08/13 11:07	01/08/13 15:45	1
Tetrachloroethene	ND	Н	5.9	0.70	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Toluene	ND	Н	5.9	0.81	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
trans-1,2-Dichloroethene	ND	Н	2.9	0.46	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
trans-1,3-Dichloropropene	ND	Н	5.9	0.79	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,2,3-Trichlorobenzene	ND	Н	5.9	0.88	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,2,4-Trichlorobenzene	ND	Н	5.9	0.86	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,1,1-Trichloroethane	ND	Н	5.9	0.61	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
1,1,2-Trichloroethane	ND	Н	5.9	1.0	ug/Kg	₩	01/08/13 11:07	01/08/13 15:45	1
Trichloroethene	ND	Н	5.9	0.27	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1
Trichlorofluoromethane	ND	Н	12	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		76 - 127	01/08/13	11:07	01/08/13 15:45	1
Dibromofluoromethane (Surr)	83		75 - 121	01/08/13	11:07	01/08/13 15:45	1
1,2-Dichloroethane-d4 (Surr)	87		58 - 140	01/08/13	11:07	01/08/13 15:45	1
Toluene-d8 (Surr)	102		80 - 126	01/08/13	11:07	01/08/13 15:45	1

24

5.9

0.53 ug/Kg

1.6 ug/Kg

Client Sample ID: 0113-SB3-2051ST-SO Lab Sample ID: 280-37602-3

Date Collected: 01/06/13 11:20 Date Received: 01/08/13 09:00

1,1,2-Trichlorotrifluoroethane

Vinyl chloride

Matrix: Solid Percent Solids: 87.9

01/08/13 11:07

01/08/13 11:07

Date Received: 01/08/13 09:00								Percent Soil	as: 87.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	19	5.2	ug/Kg	*	01/08/13 11:07	01/08/13 16:04	1
Benzene	ND	Н	4.8	0.45	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
Bromoform	ND	Н	4.8	0.22	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Bromomethane	ND	Н	9.6	0.48	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
2-Butanone (MEK)	ND	Н	19	1.8	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Carbon disulfide	ND	Н	4.8	0.40	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Carbon tetrachloride	ND	Н	4.8	0.61	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chlorobenzene	ND	Н	4.8	0.52	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chlorobromomethane	ND	Н	4.8	0.29	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chlorodibromomethane	ND	Н	4.8	0.55	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chloroethane	ND	Н	9.6	0.86	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Chloroform	ND	Н	9.6	0.28	ug/Kg	≎	01/08/13 11:07	01/08/13 16:04	1
Chloromethane	ND	Н	9.6	0.74	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
cis-1,2-Dichloroethene	ND	Н	2.4	0.54	ug/Kg	≎	01/08/13 11:07	01/08/13 16:04	1
cis-1,3-Dichloropropene	ND	Н	4.8	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Cyclohexane	ND	Н	4.8	0.38	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,2-Dibromo-3-Chloropropane	ND	Н	9.6	0.58	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,2-Dibromoethane	ND	Н	4.8	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,2-Dichlorobenzene	ND	Н	4.8	0.43	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,3-Dichlorobenzene	ND	Н	4.8	0.46	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,4-Dichlorobenzene	ND	Н	4.8	0.75	ug/Kg	₩	01/08/13 11:07	01/08/13 16:04	1
Dichlorobromomethane	ND	Н	4.8	0.21	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Dichlorodifluoromethane	ND	Н	9.6	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
I and the second									

Client: CDM Smith, Inc.

Date Collected: 01/06/13 11:20

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB3-2051ST-SO

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-3

Matrix: Solid

Date Received: 01/08/13 09:00								Percent Soli	ids: 87.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H -	4.8	0.20	ug/Kg	<u> </u>	01/08/13 11:07	01/08/13 16:04	1
1,2-Dichloroethane	ND	Н	4.8	0.67	ug/Kg		01/08/13 11:07	01/08/13 16:04	1
1,1-Dichloroethene	ND	Н	4.8	0.57	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,2-Dichloropropane	ND	Н	4.8	0.53	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,4-Dioxane	ND	Н	480	54	ug/Kg		01/08/13 11:07	01/08/13 16:04	1
Ethylbenzene	ND	Н	4.8	0.64	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
2-Hexanone	ND	Н	19	4.7	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Isopropylbenzene	ND	Н	4.8	0.57	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Methyl acetate	ND	Н	9.6	2.6	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Methylcyclohexane	ND	Н	4.8	0.40	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Methylene Chloride	ND	Н	4.8	1.5	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
4-Methyl-2-pentanone (MIBK)	ND	Н	19	4.2	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Methyl tert-butyl ether	ND	Н	19	0.33	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
m-Xylene & p-Xylene	ND	Н	2.4	1.0	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
o-Xylene	ND	Н	2.4	0.59	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Styrene	ND	Н	4.8	0.61	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,1,2,2-Tetrachloroethane	ND	Н	4.8	0.59	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
Tetrachloroethene	ND	Н	4.8	0.57	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Toluene	ND	Н	4.8	0.66	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
trans-1,2-Dichloroethene	ND	Н	2.4	0.38	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
trans-1,3-Dichloropropene	ND	Н	4.8	0.64	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,2,3-Trichlorobenzene	ND	Н	4.8	0.72	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,2,4-Trichlorobenzene	ND	Н	4.8	0.70	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1
1,1,1-Trichloroethane	ND	Н	4.8	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,1,2-Trichloroethane	ND	Н	4.8	0.85	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Trichloroethene	ND	Н	4.8	0.22	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Trichlorofluoromethane	ND	Н	9.6	1.0	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
1,1,2-Trichlorotrifluoroethane	ND	Н	19	0.43	ug/Kg	₽	01/08/13 11:07	01/08/13 16:04	1
Vinyl chloride	ND	Н	4.8	1.3	ug/Kg	\$	01/08/13 11:07	01/08/13 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		76 - 127	01/08/13 11:07	01/08/13 16:04	1
Dibromofluoromethane (Surr)	96		75 - 121	01/08/13 11:07	01/08/13 16:04	1
1,2-Dichloroethane-d4 (Surr)	89		58 ₋ 140	01/08/13 11:07	01/08/13 16:04	1
Toluene-d8 (Surr)	106		80 - 126	01/08/13 11:07	01/08/13 16:04	1

Client Sample ID: 0113-SB4-2051ST-SO

Date Collected: 01/06/13 12:15 Date Re

2-Butanone (MEK)

Date Received: 01/08/13 09:00								Percent Soll	as: 95.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		17	4.7	ug/Kg	*	01/08/13 11:07	01/08/13 16:23	1
Benzene	ND		4.4	0.41	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
Bromoform	ND		4.4	0.20	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
Bromomethane	ND		8.7	0.44	ug/Kg		01/08/13 11:07	01/08/13 16:23	1

17

1.6 ug/Kg

Carbon disulfide	ND	4.4	0.37 ug/Kg	☼ 01/08/13 11:07 01/08/13 16:23
Carbon tetrachloride	ND	4.4	0.55 ug/Kg	© 01/08/13 11:07 01/08/13 16:23
Chlorobenzene	ND	4.4	0.47 ug/Kg	© 01/08/13 11:07 01/08/13 16:23
Chlorobromomethane	ND	4.4	0.26 ug/Kg	© 01/08/13 11:07 01/08/13 16:23
Chlorodibromomethane	ND	4.4	0.50 ug/Kg	© 01/08/13 11:07 01/08/13 16:23

ND

TestAmerica Denver

Lab Sample ID: 280-37602-4

© 01/08/13 11:07 01/08/13 16:23

Matrix: Solid

Page 15 of 76

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB4-2051ST-SO

Date Collected: 01/06/13 12:15

o-Xylene

Styrene

Toluene

1,1,2,2-Tetrachloroethane

trans-1,2-Dichloroethene

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichlorofluoromethane

1,1,2-Trichlorotrifluoroethane

Trichloroethene

Vinyl chloride

trans-1,3-Dichloropropene

Tetrachloroethene

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

Lab Sample ID: 280-37602-4

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

₩

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

01/08/13 16:23

Matrix: Solid

Percent Solids: 95.2

Date Received: 01/08/13 09:00	Decell Coulting	D.	MDI	1114		Downson	Percent Soli	
Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	8.7		ug/Kg	*	01/08/13 11:07	01/08/13 16:23	1
Chloroform	ND	8.7		ug/Kg		01/08/13 11:07	01/08/13 16:23	1
Chloromethane	ND	8.7	0.67	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
cis-1,2-Dichloroethene	ND	2.2	0.49	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
cis-1,3-Dichloropropene	ND	4.4	1.1	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Cyclohexane	ND	4.4	0.35	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,2-Dibromo-3-Chloropropane	ND	8.7	0.52	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,2-Dibromoethane	ND	4.4	0.45	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,2-Dichlorobenzene	ND	4.4	0.39	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,3-Dichlorobenzene	ND	4.4	0.42	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,4-Dichlorobenzene	ND	4.4	0.68	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
Dichlorobromomethane	ND	4.4	0.19	ug/Kg	\$	01/08/13 11:07	01/08/13 16:23	1
Dichlorodifluoromethane	ND	8.7	0.45	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,1-Dichloroethane	ND	4.4	0.18	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,2-Dichloroethane	ND	4.4	0.61	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,1-Dichloroethene	ND	4.4	0.52	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
1,2-Dichloropropane	ND	4.4	0.48	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
1,4-Dioxane	ND	440	49	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
Ethylbenzene	ND	4.4	0.59	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
2-Hexanone	ND	17	4.3	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Isopropylbenzene	ND	4.4	0.52	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Methyl acetate	ND	8.7	2.4	ug/Kg	₽	01/08/13 11:07	01/08/13 16:23	1
Methylcyclohexane	0.41 J	4.4	0.37	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Methylene Chloride	ND	4.4	1.4	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
4-Methyl-2-pentanone (MIBK)	ND	17	3.8	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
Methyl tert-butyl ether	ND	17	0.30	ug/Kg	₩	01/08/13 11:07	01/08/13 16:23	1
m-Xylene & p-Xylene	ND	2.2	0.91	ug/Kg		01/08/13 11:07	01/08/13 16:23	1

2.2

4.4

4.4

4.4

4.4

2.2

4.4

4.4

4.4

4.4

4.4

4.4

8.7

17

4.4

0.53 ug/Kg

0.55 ug/Kg

0.53 ug/Kg

0.52 ug/Kg

0.60 ug/Kg

0.34 ug/Kg

0.59 ug/Kg

0.66 ug/Kg

0.64 ug/Kg

0.45 ug/Kg

0.77 ug/Kg

0.20 ug/Kg

0.39 ug/Kg

1.2 ug/Kg

ug/Kg

0.91

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113	76 - 127	01/08/13 11:07	01/08/13 16:23	1
Dibromofluoromethane (Surr)	95	75 - 121	01/08/13 11:07	01/08/13 16:23	1
1,2-Dichloroethane-d4 (Surr)	86	58 - 140	01/08/13 11:07	01/08/13 16:23	1
Toluene-d8 (Surr)	103	80 - 126	01/08/13 11:07	01/08/13 16:23	1

Client: CDM Smith, Inc.

1,1,2-Trichloroethane

Trichloroethene

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Date Collected: 01/06/13 15:35							Matrix: S	
Date Received: 01/08/13 09:00 Analyte	Result Qualifier	RL	MDL Unit		D	Prepared	Percent Solids: 9 Analyzed Di	92.2 il Fac
Acetone	ND Qualifier _	18	5.0 ug/k		₩	01/08/13 11:07	01/08/13 16:42	1
Benzene	ND	4.6	0.43 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	1
Bromoform	ND	4.6	0.21 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	1
Bromomethane	ND	9.2	0.46 ug/k			01/08/13 11:07	01/08/13 16:42	
2-Butanone (MEK)	ND	18	1.7 ug/k	•	₽	01/08/13 11:07	01/08/13 16:42	
Carbon disulfide	ND	4.6	0.39 ug/k	•	₽	01/08/13 11:07	01/08/13 16:42	
Carbon tetrachloride	ND	4.6	0.58 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	,
Chlorobenzene	ND	4.6	0.50 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
Chlorobromomethane	ND	4.6	0.28 ug/k	•	₽	01/08/13 11:07	01/08/13 16:42	
Chlorodibromomethane	ND	4.6	0.53 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	,
Chloroethane	ND	9.2	0.82 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
Chloroform	ND	9.2	0.27 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
Chloromethane	ND	9.2	0.71 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	· · · · 1
cis-1,2-Dichloroethene	ND	2.3	0.71 ug/k	•	\$	01/08/13 11:07	01/08/13 16:42	1
cis-1,3-Dichloropropene	ND	4.6	1.2 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
Cyclohexane	ND	4.6	0.37 ug/k			01/08/13 11:07	01/08/13 16:42	,
1,2-Dibromo-3-Chloropropane	ND	9.2	0.55 ug/k	•	₽	01/08/13 11:07	01/08/13 16:42	
1.2-Dibromoethane	ND	4.6	0.48 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
1,2-Dichlorobenzene	ND	4.6	0.42 ug/k			01/08/13 11:07	01/08/13 16:42	,
1,3-Dichlorobenzene	ND	4.6	0.44 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
1,4-Dichlorobenzene	ND	4.6	0.72 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
Dichlorobromomethane	ND	4.6	0.20 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	,
Dichlorodifluoromethane	ND	9.2	0.48 ug/k	-	\$	01/08/13 11:07	01/08/13 16:42	
1,1-Dichloroethane	ND	4.6	0.40 ug/k		₽	01/08/13 11:07	01/08/13 16:42	
1,2-Dichloroethane	ND	4.6	0.65 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	,
1,1-Dichloroethene	ND	4.6	0.54 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
1,2-Dichloropropane	ND	4.6	0.51 ug/k	-	₩	01/08/13 11:07	01/08/13 16:42	
1,4-Dioxane	ND	460	52 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	,
Ethylbenzene	ND	4.6	0.62 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
2-Hexanone	ND	18	4.5 ug/k		₽	01/08/13 11:07	01/08/13 16:42	
Isopropylbenzene	ND	4.6	0.54 ug/k		- <u>-</u>	01/08/13 11:07	01/08/13 16:42	,
Methyl acetate	ND	9.2	2.5 ug/k	-	₩	01/08/13 11:07	01/08/13 16:42	
Methylcyclohexane	ND	4.6	0.39 ug/k	•	₩	01/08/13 11:07	01/08/13 16:42	
Methylene Chloride	ND	4.6	1.5 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	,
4-Methyl-2-pentanone (MIBK)	ND	18	4.0 ug/k		₩	01/08/13 11:07	01/08/13 16:42	
Methyl tert-butyl ether	ND	18	0.31 ug/k	•	₩	01/08/13 11:07	01/08/13 16:42	
m-Xylene & p-Xylene	ND	2.3	0.96 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	,
o-Xylene	ND	2.3	0.56 ug/k		₩	01/08/13 11:07	01/08/13 16:42	
Styrene	ND	4.6	0.58 ug/k	-	₽	01/08/13 11:07	01/08/13 16:42	
1,1,2,2-Tetrachloroethane	ND	4.6	0.56 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	,
Tetrachloroethene	6.2	4.6	0.54 ug/k	•	₩	01/08/13 11:07	01/08/13 16:42	
Toluene	ND	4.6	0.64 ug/k	-	₩	01/08/13 11:07	01/08/13 16:42	
trans-1,2-Dichloroethene	ND	2.3	0.36 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	
trans-1,3-Dichloropropene	ND	4.6	0.62 ug/k	-	₩	01/08/13 11:07	01/08/13 16:42	
1,2,3-Trichlorobenzene	ND	4.6	0.69 ug/k	-	₩	01/08/13 11:07	01/08/13 16:42	
1,2,4-Trichlorobenzene	ND	4.6	0.67 ug/k		- <u>-</u> -	01/08/13 11:07	01/08/13 16:42	
1,1,1-Trichloroethane	ND	4.6	0.48 ug/k	-	₩	01/08/13 11:07	01/08/13 16:42	
	ND	4.0	0.04 "	,	24	04/00/40 11 07	04/00/40 40 40	

TestAmerica Denver

01/08/13 16:42

01/08/13 16:42

☼ 01/08/13 11:07

01/08/13 11:07

4.6

0.81 ug/Kg

0.21 ug/Kg

ND

ND

Client: CDM Smith, Inc.

Toluene-d8 (Surr)

Dichlorodifluoromethane

1,1-Dichloroethane

1,2-Dichloroethane

1,1-Dichloroethene

1,2-Dichloropropane

1,4-Dioxane

Ethylbenzene

2-Hexanone

Isopropylbenzene

Methylcyclohexane

Methylene Chloride

Methyl tert-butyl ether

4-Methyl-2-pentanone (MIBK)

Methyl acetate

Client Sample ID: 0113-SB4-5CEN-SO

Date Collected: 01/06/13 16:10

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

01/08/13 16:42

Lab Sample ID: 280-37602-6

Matrix: Solid

Percent Solids: 93.5

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

01/08/13 11:07

₽

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

100

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

Client Sample ID: 0113-SB3-5CEN	I-SO						Lab S	Sample ID: 280-	37602-5
Date Collected: 01/06/13 15:35								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		9.2	0.96	ug/Kg	₩	01/08/13 11:07	01/08/13 16:42	1
1,1,2-Trichlorotrifluoroethane	ND		18	0.42	ug/Kg	₽	01/08/13 11:07	01/08/13 16:42	1
Vinyl chloride	ND		4.6	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		76 - 127				01/08/13 11:07	01/08/13 16:42	1
Dibromofluoromethane (Surr)	94		75 - 121				01/08/13 11:07	01/08/13 16:42	1
1,2-Dichloroethane-d4 (Surr)	88		58 ₋ 140				01/08/13 11:07	01/08/13 16:42	1

80 - 126

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		19	5.0	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1
Benzene	ND		4.7	0.44	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Bromoform	ND		4.7	0.21	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Bromomethane	ND		9.3	0.47	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
2-Butanone (MEK)	ND		19	1.7	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Carbon disulfide	ND		4.7	0.39	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Carbon tetrachloride	ND		4.7	0.59	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Chlorobenzene	ND		4.7	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Chlorobromomethane	ND		4.7	0.28	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Chlorodibromomethane	ND		4.7	0.53	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1
Chloroethane	ND		9.3	0.83	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Chloroform	ND		9.3	0.27	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Chloromethane	ND		9.3	0.72	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1
cis-1,2-Dichloroethene	ND		2.3	0.52	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
cis-1,3-Dichloropropene	ND		4.7	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Cyclohexane	ND		4.7	0.37	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,2-Dibromo-3-Chloropropane	ND		9.3	0.56	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,2-Dibromoethane	ND		4.7	0.48	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,2-Dichlorobenzene	ND		4.7	0.42	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,3-Dichlorobenzene	ND		4.7	0.45	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,4-Dichlorobenzene	ND		4.7	0.73	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
Dichlorobromomethane	ND		4.7	0.21	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1

9.3

4.7

4.7

4.7

4.7

470

4.7

19

4.7

9.3

4.7

4.7

19

19

0.48 ug/Kg

0.20 ug/Kg

0.65 ug/Kg

0.55 ug/Kg

0.51 ug/Kg

52 ug/Kg

0.62 ug/Kg

4.6 ug/Kg

0.55 ug/Kg

2.6 ug/Kg

0.39 ug/Kg

1.5 ug/Kg

4.1 ug/Kg

0.32 ug/Kg

TestAmerica Denver

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

01/08/13 17:01

Page 18 of 76

3

4

6

8

4.0

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB4-5CEN- Date Collected: 01/06/13 16:10	SO						Lab S	Sample ID: 280- Matri	37602-6 x: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.3	0.97	ug/Kg	*	01/08/13 11:07	01/08/13 17:01	1
o-Xylene	ND		2.3	0.57	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1
Styrene	ND		4.7	0.59	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.57	ug/Kg	\$	01/08/13 11:07	01/08/13 17:01	1
Tetrachloroethene	ND		4.7	0.55	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
Toluene	ND		4.7	0.64	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
trans-1,2-Dichloroethene	ND		2.3	0.36	ug/Kg	φ.	01/08/13 11:07	01/08/13 17:01	1
trans-1,3-Dichloropropene	ND		4.7	0.62	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
1,2,3-Trichlorobenzene	ND		4.7	0.70	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
1,2,4-Trichlorobenzene	ND		4.7	0.68	ug/Kg		01/08/13 11:07	01/08/13 17:01	1
1,1,1-Trichloroethane	ND		4.7	0.48	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
1,1,2-Trichloroethane	ND		4.7	0.82	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
Trichloroethene	ND		4.7	0.21	ug/Kg		01/08/13 11:07	01/08/13 17:01	1
Trichlorofluoromethane	ND		9.3	0.97	ug/Kg	₩	01/08/13 11:07	01/08/13 17:01	1
1,1,2-Trichlorotrifluoroethane	ND		19	0.42	ug/Kg	₽	01/08/13 11:07	01/08/13 17:01	1

١	Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	101	76 - 127	01/08/13 11:07	01/08/13 17:01	1
ı	Dibromofluoromethane (Surr)	95	75 - 121	01/08/13 11:07	01/08/13 17:01	1
١	1,2-Dichloroethane-d4 (Surr)	87	58 - 140	01/08/13 11:07	01/08/13 17:01	1
ı	Toluene-d8 (Surr)	101	80 - 126	01/08/13 11:07	01/08/13 17:01	1

4.7

1.2 ug/Kg

Client Sample ID: 0113-SB6-5CEN-SO Date Collected: 01/06/13 16:50 Date Received: 01/08/13 09:00

Vinyl chloride

Lab Sample ID: 280-37602-7 Matrix: Solid

01/08/13 17:01

01/08/13 11:07

Percent Solids: 93.

Date Received: 01/08/13 09:00								Percent Soli	ds: 93.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		18	4.8	ug/Kg	<u> </u>	01/08/13 11:07	01/08/13 17:20	1
Benzene	ND		4.5	0.42	ug/Kg	₩	01/08/13 11:07	01/08/13 17:20	1
Bromoform	ND		4.5	0.21	ug/Kg	₩	01/08/13 11:07	01/08/13 17:20	1
Bromomethane	ND		9.0	0.45	ug/Kg	*	01/08/13 11:07	01/08/13 17:20	1
2-Butanone (MEK)	ND		18	1.6	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Carbon disulfide	ND		4.5	0.38	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Carbon tetrachloride	ND		4.5	0.57	ug/Kg	\$	01/08/13 11:07	01/08/13 17:20	1
Chlorobenzene	ND		4.5	0.49	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Chlorobromomethane	ND		4.5	0.27	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Chlorodibromomethane	ND		4.5	0.51	ug/Kg	\$	01/08/13 11:07	01/08/13 17:20	1
Chloroethane	ND		9.0	0.80	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Chloroform	ND		9.0	0.26	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Chloromethane	ND		9.0	0.69	ug/Kg	\$	01/08/13 11:07	01/08/13 17:20	1
cis-1,2-Dichloroethene	ND		2.2	0.50	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
cis-1,3-Dichloropropene	ND		4.5	1.2	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Cyclohexane	ND		4.5	0.36	ug/Kg	\$	01/08/13 11:07	01/08/13 17:20	1
1,2-Dibromo-3-Chloropropane	ND		9.0	0.54	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,2-Dibromoethane	ND		4.5	0.47	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,2-Dichlorobenzene	ND		4.5	0.40	ug/Kg	\$	01/08/13 11:07	01/08/13 17:20	1
1,3-Dichlorobenzene	ND		4.5	0.43	ug/Kg	₩	01/08/13 11:07	01/08/13 17:20	1
1,4-Dichlorobenzene	ND		4.5	0.70	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Dichlorobromomethane	ND		4.5	0.20	ug/Kg	φ.	01/08/13 11:07	01/08/13 17:20	1
Dichlorodifluoromethane	ND		9.0	0.47	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1

Client: CDM Smith, Inc.

1,1,2-Trichlorotrifluoroethane

Vinyl chloride

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB6-5CEN-SO Date Collected: 01/06/13 16:50 TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

01/08/13 11:07

01/08/13 11:07

01/08/13 17:20

01/08/13 17:20

Matrix: Solid
Percent Solids: 93.5

Date Received: 01/08/13 09:00 Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Percent Soli Analyzed	ds: 93.5 Dil Fac
1,1-Dichloroethane	ND -		4.5	0.19	ug/Kg	<u></u>	01/08/13 11:07	01/08/13 17:20	1
1,2-Dichloroethane	ND		4.5	0.63	ug/Kg		01/08/13 11:07	01/08/13 17:20	1
1,1-Dichloroethene	ND		4.5	0.53	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,2-Dichloropropane	ND		4.5	0.49	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,4-Dioxane	ND		450	50	ug/Kg	\$	01/08/13 11:07	01/08/13 17:20	1
Ethylbenzene	ND		4.5	0.60	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
2-Hexanone	ND		18	4.4	ug/Kg	₩	01/08/13 11:07	01/08/13 17:20	1
Isopropylbenzene	ND		4.5	0.53	ug/Kg	\$	01/08/13 11:07	01/08/13 17:20	1
Methyl acetate	ND		9.0	2.5	ug/Kg	₩	01/08/13 11:07	01/08/13 17:20	1
Methylcyclohexane	ND		4.5	0.38	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Methylene Chloride	ND		4.5	1.4	ug/Kg		01/08/13 11:07	01/08/13 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		18	3.9	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Methyl tert-butyl ether	ND		18	0.31	ug/Kg	₩	01/08/13 11:07	01/08/13 17:20	1
m-Xylene & p-Xylene	ND		2.2	0.94	ug/Kg	φ.	01/08/13 11:07	01/08/13 17:20	1
o-Xylene	ND		2.2	0.55	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Styrene	ND		4.5	0.57	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.55	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Tetrachloroethene	ND		4.5	0.53	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Toluene	ND		4.5	0.62	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
trans-1,2-Dichloroethene	ND		2.2	0.35	ug/Kg	\$	01/08/13 11:07	01/08/13 17:20	1
trans-1,3-Dichloropropene	ND		4.5	0.60	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,2,3-Trichlorobenzene	ND		4.5	0.67	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,2,4-Trichlorobenzene	ND		4.5	0.66	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,1,1-Trichloroethane	ND		4.5	0.47	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
1,1,2-Trichloroethane	ND		4.5	0.79	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Trichloroethene	ND		4.5	0.21	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1
Trichlorofluoromethane	ND		9.0	0.94	ug/Kg	₽	01/08/13 11:07	01/08/13 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		76 - 127	01/08/13 11:07	01/08/13 17:20	1
Dibromofluoromethane (Surr)	94		75 - 121	01/08/13 11:07	01/08/13 17:20	1
1,2-Dichloroethane-d4 (Surr)	87		58 - 140	01/08/13 11:07	01/08/13 17:20	1
Toluene-d8 (Surr)	101		80 - 126	01/08/13 11:07	01/08/13 17:20	1

18

4.5

0.40 ug/Kg

1.2 ug/Kg

ND

ND

Client Sample ID: 0113-SB5-5CEN-SO

Date Collected: 01/06/13 17:35

Date Received: 01/08/13 09:00

Lab Sample ID: 280-37602-8

Matrix: Solid

Percent Solids: 93.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		17	4.5	ug/Kg	<u> </u>	01/08/13 11:26	01/08/13 19:57	1
Benzene	ND		4.2	0.40	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Bromoform	ND		4.2	0.19	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Bromomethane	ND		8.4	0.42	ug/Kg	\$	01/08/13 11:26	01/08/13 19:57	1
2-Butanone (MEK)	ND		17	1.5	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Carbon disulfide	ND		4.2	0.35	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Carbon tetrachloride	ND		4.2	0.53	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Chlorobenzene	ND		4.2	0.46	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Chlorobromomethane	ND		4.2	0.25	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1
Chlorodibromomethane	ND		4.2	0.48	ug/Kg	₽	01/08/13 11:26	01/08/13 19:57	1

Client: CDM Smith, Inc.

1,1,2-Trichlorotrifluoroethane

Vinyl chloride

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-5CEN-SO Date Collected: 01/06/13 17:35

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

1.00	0	ID.	000	27	000	
Lab	Sample	: יטו	280	-37	bUZ	-8

Matrix: Solid

Percent Solids: 93.9

Date Received: 01/08/13 09:00						Percent Soli	ds: 93.9
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	8.4	0.75 ug/K	íg ÿ	01/08/13 11:26	01/08/13 19:57	1
Chloroform	ND	8.4	0.24 ug/K	íg ÿ	01/08/13 11:26	01/08/13 19:57	1
Chloromethane	ND	8.4	0.65 ug/K	ίg ÿ	01/08/13 11:26	01/08/13 19:57	1
cis-1,2-Dichloroethene	ND	2.1	0.47 ug/K	íg ÿ	01/08/13 11:26	01/08/13 19:57	1
cis-1,3-Dichloropropene	ND	4.2	1.1 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
Cyclohexane	ND	4.2	0.34 ug/K	ίg [‡]	01/08/13 11:26	01/08/13 19:57	1
1,2-Dibromo-3-Chloropropane	ND	8.4	0.51 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,2-Dibromoethane	ND	4.2	0.44 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,2-Dichlorobenzene	ND	4.2	0.38 ug/K	(g	01/08/13 11:26	01/08/13 19:57	1
1,3-Dichlorobenzene	ND	4.2	0.40 ug/K	íg ÿ	01/08/13 11:26	01/08/13 19:57	1
1,4-Dichlorobenzene	ND	4.2	0.66 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
Dichlorobromomethane	ND	4.2	0.19 ug/K	(g	01/08/13 11:26	01/08/13 19:57	1
Dichlorodifluoromethane	ND	8.4	0.44 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,1-Dichloroethane	ND	4.2	0.18 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,2-Dichloroethane	ND	4.2	0.59 ug/K	.g	01/08/13 11:26	01/08/13 19:57	1
1,1-Dichloroethene	ND	4.2	0.50 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,2-Dichloropropane	ND	4.2	0.46 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,4-Dioxane	ND	420	47 ug/K	(g	01/08/13 11:26	01/08/13 19:57	1
Ethylbenzene	ND	4.2	0.57 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
2-Hexanone	ND	17	4.1 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
Isopropylbenzene	ND	4.2	0.50 ug/K	(g	01/08/13 11:26	01/08/13 19:57	1
Methyl acetate	ND	8.4	2.3 ug/K	íg ÿ	01/08/13 11:26	01/08/13 19:57	1
Methylcyclohexane	ND	4.2	0.35 ug/K	íg ÿ	01/08/13 11:26	01/08/13 19:57	1
Methylene Chloride	ND	4.2	1.3 ug/K	(g	01/08/13 11:26	01/08/13 19:57	1
4-Methyl-2-pentanone (MIBK)	ND	17	3.7 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
Methyl tert-butyl ether	ND	17	0.29 ug/K	íg ÿ	01/08/13 11:26	01/08/13 19:57	1
m-Xylene & p-Xylene	ND	2.1	0.88 ug/K	(g	01/08/13 11:26	01/08/13 19:57	1
o-Xylene	ND	2.1	0.51 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
Styrene	ND	4.2	0.53 ug/K	íg ÿ	01/08/13 11:26	01/08/13 19:57	1
1,1,2,2-Tetrachloroethane	ND	4.2	0.51 ug/K	(g	01/08/13 11:26	01/08/13 19:57	1
Tetrachloroethene	ND	4.2	0.50 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
Toluene	ND	4.2	0.58 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
trans-1,2-Dichloroethene	ND	2.1	0.33 ug/K	ίg ÿ	01/08/13 11:26	01/08/13 19:57	1
trans-1,3-Dichloropropene	ND	4.2	0.57 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,2,3-Trichlorobenzene	ND	4.2	0.63 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,2,4-Trichlorobenzene	ND	4.2	0.62 ug/K	ίg [‡]	01/08/13 11:26	01/08/13 19:57	1
1,1,1-Trichloroethane	ND	4.2	0.44 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
1,1,2-Trichloroethane	ND	4.2	0.74 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1
Trichloroethene	ND	4.2	0.19 ug/K	(g	01/08/13 11:26	01/08/13 19:57	1
Trichlorofluoromethane	ND	8.4	0.88 ug/K	.g ⇔	01/08/13 11:26	01/08/13 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		76 - 127	01/08/13 11:26	01/08/13 19:57	1
Dibromofluoromethane (Surr)	95		75 - 121	01/08/13 11:26	01/08/13 19:57	1
1,2-Dichloroethane-d4 (Surr)	88		58 - 140	01/08/13 11:26	01/08/13 19:57	1
Toluene-d8 (Surr)	104		80 - 126	01/08/13 11:26	01/08/13 19:57	1

17

4.2

0.38 ug/Kg

1.1 ug/Kg

ND

ND

TestAmerica Denver

01/08/13 19:57

01/08/13 19:57

01/08/13 11:26

01/08/13 11:26

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: 0113-SB6-2051ST-SO Lab Sample ID: 280-37602-9 Date Collected: 01/06/13 12:55 Matrix: Solid

						Percent Soli	x: Solid ds: 94.
					<u>.</u>		Dil Fa
	4.2			*	01/08/13 11:26	01/08/13 20:17	
ND	4.2			₩	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.42	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	17	1.6	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.36	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.53	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.46	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.25	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.48	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.75	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.25	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.65	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	2.1	0.47	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	1.1	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.34	ug/Kg	\$	01/08/13 11:26	01/08/13 20:17	
ND	8.5	0.51	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.44	ug/Kg	₽	01/08/13 11:26	01/08/13 20:17	
ND	4.2				01/08/13 11:26	01/08/13 20:17	
ND	4.2			₩	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.66	ua/Ka	₽	01/08/13 11:26	01/08/13 20:17	
				.			
				₽			
				₩			
				₩			
				₩			
				.			
					01/08/13 11:26	01/08/13 20:17	
ND	4.2						
ND	4.2			\$	01/08/13 11:26	01/08/13 20:17	
ND	4.2	0.75	ug/Kg	₩	01/08/13 11:26	01/08/13 20:17	
	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND 17 ND 4.2 ND 4.2 ND 4.2 ND 17 ND 4.2 ND 4.2 ND 4.2 ND 4.2 ND 8.5 ND 8.5 ND 4.2 N	ND	ND	ND	ND	Result Qualifier RL

Client: CDM Smith, Inc.

Vinyl chloride

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

01/08/13 20:17

01/08/13 11:26

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND

Client Sample ID: 0113-SB6-2051ST-SO	Lab Sample ID: 280-37602-9
Date Collected: 01/06/13 12:55	Matrix: Solid

Date Received: 01/08/13 09:00 Percent Solids: 94.7 Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac ₩ Trichlorofluoromethane ND 8.5 0.88 ug/Kg 01/08/13 11:26 01/08/13 20:17 ND 17 01/08/13 11:26 01/08/13 20:17 1,1,2-Trichlorotrifluoroethane 0.38 ug/Kg

4.2

1.1 ug/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 104 76 - 127 01/08/13 11:26 01/08/13 20:17 75 - 121 01/08/13 11:26 Dibromofluoromethane (Surr) 96 01/08/13 20:17 1,2-Dichloroethane-d4 (Surr) 89 58 - 140 01/08/13 11:26 01/08/13 20:17 Toluene-d8 (Surr) 103 80 - 126 01/08/13 11:26 01/08/13 20:17

Lab Sample ID: 280-37602-10 Client Sample ID: 0113-SB5-2051ST-SO

Date Collected: 01/06/13 13:30 **Matrix: Solid**

Date Received: 01/08/13 09:00							Percent Soli	ds: 93.6
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	19	5.1	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Benzene	ND	4.7	0.44	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Bromoform	ND	4.7	0.22	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Bromomethane	ND	9.5	0.47	ug/Kg	*	01/08/13 11:26	01/08/13 20:36	1
2-Butanone (MEK)	ND	19	1.7	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	1
Carbon disulfide	ND	4.7	0.40	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Carbon tetrachloride	ND	4.7	0.60	ug/Kg	*	01/08/13 11:26	01/08/13 20:36	1
Chlorobenzene	ND	4.7	0.51	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	1
Chlorobromomethane	ND	4.7	0.28	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Chlorodibromomethane	ND	4.7	0.54	ug/Kg	\$	01/08/13 11:26	01/08/13 20:36	1
Chloroethane	ND	9.5	0.84	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Chloroform	ND	9.5	0.27	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Chloromethane	ND	9.5	0.73	ug/Kg	φ.	01/08/13 11:26	01/08/13 20:36	1
cis-1,2-Dichloroethene	ND	2.4	0.53	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
cis-1,3-Dichloropropene	ND	4.7	1.2	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Cyclohexane	ND	4.7	0.38	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2-Dibromo-3-Chloropropane	ND	9.5	0.57	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2-Dibromoethane	ND	4.7	0.49	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2-Dichlorobenzene	ND	4.7	0.43	ug/Kg	\$	01/08/13 11:26	01/08/13 20:36	1
1,3-Dichlorobenzene	ND	4.7	0.45	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,4-Dichlorobenzene	ND	4.7	0.74	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Dichlorobromomethane	ND	4.7	0.21	ug/Kg	\$	01/08/13 11:26	01/08/13 20:36	1
Dichlorodifluoromethane	ND	9.5	0.49	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1-Dichloroethane	ND	4.7	0.20	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2-Dichloroethane	ND	4.7	0.66	ug/Kg	φ.	01/08/13 11:26	01/08/13 20:36	1
1,1-Dichloroethene	ND	4.7	0.56	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2-Dichloropropane	ND	4.7	0.52	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,4-Dioxane	ND	470	53	ug/Kg		01/08/13 11:26	01/08/13 20:36	1
Ethylbenzene	ND	4.7	0.63	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	1
2-Hexanone	ND	19	4.6	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Isopropylbenzene	ND	4.7	0.56	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Methyl acetate	ND	9.5	2.6	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	1
Methylcyclohexane	ND	4.7	0.40	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	1
Methylene Chloride	ND	4.7	1.5	ug/Kg		01/08/13 11:26	01/08/13 20:36	1
4-Methyl-2-pentanone (MIBK)	ND	19	4.1	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	1
Methyl tert-butyl ether	ND	19	0.32	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1

Client: CDM Smith, Inc.

Vinyl chloride

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND

Client Sample ID: 0113-SB5-2051ST Date Collected: 01/06/13 13:30	- \$0						Lab Sa	ample ID: 280-3	7602-10 x: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.4	0.98	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	1
o-Xylene	ND		2.4	0.58	ug/Kg	\$	01/08/13 11:26	01/08/13 20:36	1
Styrene	ND		4.7	0.60	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.58	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Tetrachloroethene	ND		4.7	0.56	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Toluene	ND		4.7	0.65	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
trans-1,2-Dichloroethene	ND		2.4	0.37	ug/Kg	\$	01/08/13 11:26	01/08/13 20:36	1
trans-1,3-Dichloropropene	ND		4.7	0.63	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2,3-Trichlorobenzene	ND		4.7	0.71	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,2,4-Trichlorobenzene	ND		4.7	0.69	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1,1-Trichloroethane	ND		4.7	0.49	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1,2-Trichloroethane	ND		4.7	0.83	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Trichloroethene	ND		4.7	0.22	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
Trichlorofluoromethane	ND		9.5	0.98	ug/Kg	₽	01/08/13 11:26	01/08/13 20:36	1
1,1,2-Trichlorotrifluoroethane	ND		19	0.43	ug/Kg	₩	01/08/13 11:26	01/08/13 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		76 - 127	01/08/13 11:2	6 01/08/13 20:36	1
Dibromofluoromethane (Surr)	95		75 - 121	01/08/13 11:2	6 01/08/13 20:36	1
1,2-Dichloroethane-d4 (Surr)	90		58 - 140	01/08/13 11:2	6 01/08/13 20:36	1
Toluene-d8 (Surr)	101		80 - 126	01/08/13 11:2	6 01/08/13 20:36	1

4.7

1.3 ug/Kg

Client Sample ID: 0113-SB1-5CEN-SO
Date Collected: 01/06/13 14:15

Lab Sample ID: 280-37602-11 Matrix: Solid

01/08/13 20:36

01/08/13 11:26

Percent Solids: 94.4

Date Received: 01/08/13 09:00								Percent Soli	ds: 94.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		22	5.9	ug/Kg		01/08/13 11:26	01/09/13 01:11	1
Benzene	ND		5.4	0.51	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1
Bromoform	ND		5.4	0.25	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Bromomethane	ND		11	0.54	ug/Kg	\$	01/08/13 11:26	01/09/13 01:11	1
2-Butanone (MEK)	ND		22	2.0	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Carbon disulfide	ND		5.4	0.46	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Carbon tetrachloride	ND		5.4	0.69	ug/Kg	\$	01/08/13 11:26	01/09/13 01:11	1
Chlorobenzene	ND		5.4	0.59	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Chlorobromomethane	ND		5.4	0.33	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Chlorodibromomethane	ND		5.4	0.62	ug/Kg	\$	01/08/13 11:26	01/09/13 01:11	1
Chloroethane	ND		11	0.97	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Chloroform	ND		11	0.32	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Chloromethane	ND		11	0.84	ug/Kg	\$	01/08/13 11:26	01/09/13 01:11	1
cis-1,2-Dichloroethene	ND		2.7	0.61	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
cis-1,3-Dichloropropene	ND		5.4	1.4	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Cyclohexane	ND		5.4	0.44	ug/Kg	\$	01/08/13 11:26	01/09/13 01:11	1
1,2-Dibromo-3-Chloropropane	ND		11	0.65	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,2-Dibromoethane	ND		5.4	0.57	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,2-Dichlorobenzene	ND		5.4	0.49	ug/Kg	\$	01/08/13 11:26	01/09/13 01:11	1
1,3-Dichlorobenzene	ND		5.4	0.52	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
1,4-Dichlorobenzene	ND		5.4	0.85	ug/Kg	₽	01/08/13 11:26	01/09/13 01:11	1
Dichlorobromomethane	ND		5.4	0.24	ug/Kg	φ.	01/08/13 11:26	01/09/13 01:11	1
Dichlorodifluoromethane	ND		11	0.57	ug/Kg	₩	01/08/13 11:26	01/09/13 01:11	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

ND

ND

ND

TestAmerica Job ID: 280-37602-1

Client Sample ID: 0113-SB1-5CEN-SO Lab Sample ID: 280-37602-11 Date Collected: 01/06/13 14:15 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 94.4 RL MDL Unit D Prepared Analyte Result Qualifier Analyzed Dil Fac ₩ 1,1-Dichloroethane ND 5.4 0.23 ug/Kg 01/08/13 11:26 01/09/13 01:11 ₽ 01/08/13 11:26 1,2-Dichloroethane ND 54 01/09/13 01:11 0.76 ug/Kg ₩ 1,1-Dichloroethene ND 5.4 0.64 ug/Kg 01/08/13 11:26 01/09/13 01:11 ND 5.4 0.60 ug/Kg 01/08/13 11:26 01/09/13 01:11 1,2-Dichloropropane ₩ 1,4-Dioxane ND 540 ug/Kg 01/08/13 11:26 01/09/13 01:11 ND 5.4 01/08/13 11:26 01/09/13 01:11 Ethylbenzene 0.73 ug/Kg ₽ 2-Hexanone ND 22 5.3 ug/Kg 01/08/13 11:26 01/09/13 01:11 Isopropylbenzene ND 5.4 01/08/13 11:26 01/09/13 01:11 0.64 ug/Kg 01/08/13 11:26 Methyl acetate ND 11 3.0 ug/Kg 01/09/13 01:11 01/08/13 11:26 Methylcyclohexane ND 5.4 0.46 ug/Kg 01/09/13 01:11 01/08/13 11:26 **Methylene Chloride** 2.9 5.4 1.7 ug/Kg 01/09/13 01:11 22 01/08/13 11:26 4-Methyl-2-pentanone (MIBK) ND 4.8 ug/Kg 01/09/13 01:11 Methyl tert-butyl ether ND 22 0.37 ug/Kg 01/08/13 11:26 01/09/13 01:11 m-Xylene & p-Xylene ND 2.7 1.1 ug/Kg 01/08/13 11:26 01/09/13 01:11 o-Xylene ND 27 0.66 01/08/13 11:26 01/09/13 01:11 ug/Kg Styrene ND 5.4 0.69 ug/Kg 01/08/13 11:26 01/09/13 01:11 ND 5.4 01/08/13 11:26 1,1,2,2-Tetrachloroethane 0.66 ug/Kg 01/09/13 01:11 Tetrachloroethene ND 5.4 0.64 01/08/13 11:26 01/09/13 01:11 ug/Kg ND 01/08/13 11:26 01/09/13 01:11 Toluene 5.4 0.75 ug/Kg ₩ trans-1,2-Dichloroethene ND 2.7 0.42 ug/Kg 01/08/13 11:26 01/09/13 01:11 trans-1,3-Dichloropropene ND 5.4 0.73 ug/Kg 01/08/13 11:26 01/09/13 01:11 ND 01/08/13 11:26 1,2,3-Trichlorobenzene 5.4 0.82 ug/Kg 01/09/13 01:11 1,2,4-Trichlorobenzene ND 5.4 0.80 ug/Kg 01/08/13 11:26 01/09/13 01:11 1,1,1-Trichloroethane ND 5.4 0.57 ug/Kg 01/08/13 11:26 01/09/13 01:11 1,1,2-Trichloroethane ND 5.4 0.96 ug/Kg 01/08/13 11:26 01/09/13 01:11 ND 01/08/13 11:26 Trichloroethene 5.4 0.25 01/09/13 01:11

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		76 - 127	01/08/13 11:26	01/09/13 01:11	1
Dibromofluoromethane (Surr)	93		75 - 121	01/08/13 11:26	01/09/13 01:11	1
1,2-Dichloroethane-d4 (Surr)	84		58 - 140	01/08/13 11:26	01/09/13 01:11	1
Toluene-d8 (Surr)	100		80 - 126	01/08/13 11:26	01/09/13 01:11	1

11

22

5.4

ug/Kg

ug/Kg

1.5 ug/Kg

1.1 ug/Kg

0.49

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/09/13 01:11

01/09/13 01:11

01/09/13 01:11

Lab Sample ID: 280-37602-12

Client Sample ID: 0113-SB2-5CEN-SO Date Collected: 01/06/13 14:50

Trichlorofluoromethane

Vinyl chloride

1,1,2-Trichlorotrifluoroethane

Date Collected: 01/06/13 14:50								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.6
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		19	5.1	ug/Kg	\	01/08/13 11:26	01/09/13 01:30	1
Benzene	ND		4.7	0.45	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
Bromoform	ND		4.7	0.22	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
Bromomethane	ND		9.5	0.47	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
2-Butanone (MEK)	ND		19	1.7	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
Carbon disulfide	ND		4.7	0.40	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
Carbon tetrachloride	ND		4.7	0.60	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Chlorobenzene	ND		4.7	0.51	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
Chlorobromomethane	ND		4.7	0.28	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
Chlorodibromomethane	ND		4.7	0.54	ug/Kg	*	01/08/13 11:26	01/09/13 01:30	1

Client: CDM Smith, Inc.

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

1,2-Dichloroethane-d4 (Surr)

Toluene-d8 (Surr)

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Date Collected: 01/06/13 14:50								ix: Solid
Date Received: 01/08/13 09:00							Percent Sol	ids: 93.6
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	9.5		ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
Chloroform	ND	9.5	0.27	ug/Kg		01/08/13 11:26	01/09/13 01:30	1
Chloromethane	ND	9.5	0.73	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
cis-1,2-Dichloroethene	ND	2.4	0.53	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
cis-1,3-Dichloropropene	ND	4.7	1.2	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Cyclohexane	ND	4.7	0.38	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
1,2-Dibromo-3-Chloropropane	ND	9.5	0.57	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
1,2-Dibromoethane	ND	4.7	0.49	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
1,2-Dichlorobenzene	ND	4.7	0.43	ug/Kg	\$	01/08/13 11:26	01/09/13 01:30	1
1,3-Dichlorobenzene	ND	4.7	0.45	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
1,4-Dichlorobenzene	ND	4.7	0.74	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Dichlorobromomethane	ND	4.7	0.21	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Dichlorodifluoromethane	ND	9.5	0.49	ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
1,1-Dichloroethane	ND	4.7	0.20	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
1,2-Dichloroethane	ND	4.7	0.66	ug/Kg	\$	01/08/13 11:26	01/09/13 01:30	1
1,1-Dichloroethene	ND	4.7	0.56	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
1,2-Dichloropropane	ND	4.7	0.52	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
1,4-Dioxane	ND	470	53	ug/Kg	Φ.	01/08/13 11:26	01/09/13 01:30	1
Ethylbenzene	ND	4.7		ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
2-Hexanone	ND	19	4.6	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Isopropylbenzene	ND	4.7	0.56	ug/Kg	φ.	01/08/13 11:26	01/09/13 01:30	1
Methyl acetate	ND	9.5	2.6	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Methylcyclohexane	ND	4.7	0.40	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Methylene Chloride	ND	4.7		ug/Kg		01/08/13 11:26	01/09/13 01:30	1
4-Methyl-2-pentanone (MIBK)	ND	19		ug/Kg	₩	01/08/13 11:26	01/09/13 01:30	1
Methyl tert-butyl ether	ND	19	0.32	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
m-Xylene & p-Xylene	ND	2.4	0.98			01/08/13 11:26	01/09/13 01:30	1
o-Xylene	ND	2.4		ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Styrene	ND	4.7	0.60	ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
1,1,2,2-Tetrachloroethane	ND	4.7	0.58		-	01/08/13 11:26	01/09/13 01:30	1
Tetrachloroethene	ND	4.7		ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Toluene	ND	4.7		ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
trans-1,2-Dichloroethene	ND	2.4		ug/Kg	ф	01/08/13 11:26	01/09/13 01:30	1
trans-1,3-Dichloropropene	ND	4.7	0.63		₽	01/08/13 11:26	01/09/13 01:30	1
1,2,3-Trichlorobenzene	ND	4.7	0.71		₽	01/08/13 11:26	01/09/13 01:30	1
1,2,4-Trichlorobenzene	ND	4.7		ug/Kg	-	01/08/13 11:26	01/09/13 01:30	1
1,1,1-Trichloroethane	ND	4.7	0.49		₽	01/08/13 11:26	01/09/13 01:30	1
1,1,2-Trichloroethane	ND	4.7		ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	1
Trichloroethene	ND	4.7		ug/Kg	-	01/08/13 11:26	01/09/13 01:30	1
Trichlorofluoromethane	ND	9.5	0.98		₽	01/08/13 11:26	01/09/13 01:30	1
1,1,2-Trichlorotrifluoroethane	ND	19		ug/Kg	₽	01/08/13 11:26	01/09/13 01:30	. 1
Vinyl chloride	ND	4.7		ug/Kg		01/08/13 11:26	01/09/13 01:30	1
	0/5							s
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac

TestAmerica Denver

01/08/13 11:26 01/09/13 01:30

01/09/13 01:30

01/09/13 01:30

01/09/13 01:30

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

76 - 127

75 - 121

58 - 140

80 - 126

97

97

88

101

3

1

5

7

0

10

13

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

ı	Date Received: 01/08/13 09:00 Analyte	Result Qualifier	MDL Unit		Percent Sol Analyzed	Dil Fac	
Н							Ξ
ı	Date Collected: 01/06/13 09:30				Matr	ix: Solid	
l	Client Sample ID: 0113-SB1-2051ST-SO			Lab S	Sample ID: 280	-37602-1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1700	55	ug/Kg	<u> </u>	01/08/13 14:30	01/09/13 10:39	5
Acenaphthylene	ND		1700	90	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Anthracene	ND		1700	90	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
Benzo[a]anthracene	ND		1700	110	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Benzo[a]pyrene	ND		1700	110	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Benzo[b]fluoranthene	ND		1700	140	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
Benzo[g,h,i]perylene	ND		1700	85	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Benzo[k]fluoranthene	ND		1700	210	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
Chrysene	ND		1700	140	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
Dibenz(a,h)anthracene	ND		1700	100	ug/Kg	\$	01/08/13 14:30	01/09/13 10:39	5
Fluoranthene	ND		1700	190	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
Fluorene	ND		1700	95	ug/Kg	₽	01/08/13 14:30	01/09/13 10:39	5
Indeno[1,2,3-cd]pyrene	ND		1700	120	ug/Kg	\$	01/08/13 14:30	01/09/13 10:39	5
1-Methylnaphthalene	ND		1700	59	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
2-Methylnaphthalene	ND		1700	100	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
Naphthalene	ND		1700	160	ug/Kg	₩.	01/08/13 14:30	01/09/13 10:39	5
Phenanthrene	93	J	1700	90	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5
Pyrene	130	J	1700	64	ug/Kg	₩	01/08/13 14:30	01/09/13 10:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	86	D	50 - 120	01/08/13 14:30	01/09/13 10:39	5
Nitrobenzene-d5	76	D	50 - 120	01/08/13 14:30	01/09/13 10:39	5
Terphenyl-d14	89	D	55 - 120	01/08/13 14:30	01/09/13 10:39	5

Client Sample ID: 0113-SB2-2051ST-SO Lab Sample ID: 280-37602-2 Date Collected: 01/06/13 10:25

Matrix: Solid Date Received: 01/08/13 09:00 Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1800	55	ug/Kg	\	01/08/13 14:30	01/09/13 11:00	5
Acenaphthylene	ND		1800	91	ug/Kg	≎	01/08/13 14:30	01/09/13 11:00	5
Anthracene	ND		1800	91	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Benzo[a]anthracene	150	J	1800	110	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Benzo[a]pyrene	130	J	1800	110	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Benzo[b]fluoranthene	270	JK	1800	140	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Benzo[g,h,i]perylene	85	J	1800	85	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Benzo[k]fluoranthene	ND	K	1800	210	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Chrysene	150	J	1800	140	ug/Kg	₽	01/08/13 14:30	01/09/13 11:00	5
Dibenz(a,h)anthracene	ND		1800	100	ug/Kg	\$	01/08/13 14:30	01/09/13 11:00	5
Fluoranthene	230	J	1800	190	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Fluorene	ND		1800	96	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Indeno[1,2,3-cd]pyrene	ND		1800	120	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
1-Methylnaphthalene	ND		1800	60	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
2-Methylnaphthalene	ND		1800	100	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Naphthalene	ND		1800	170	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Phenanthrene	100	J	1800	91	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5
Pyrene	230	J	1800	64	ug/Kg	₩	01/08/13 14:30	01/09/13 11:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83	D	50 - 120	01/08/13 14:30	01/09/13 11:00	5
Nitrobenzene-d5	74	D	50 - 120	01/08/13 14:30	0 01/09/13 11:00	5

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 0113-SB2-2051ST-SO

Date Collected: 01/06/13 10:25 Date Received: 01/08/13 09:00

Lab Sample ID: 280-37602-2 **Matrix: Solid**

Percent Solids: 92.3

Surrogate %Recovery Qualifier Limits Prepared Analyzed Terphenyl-d14 88 D 55 - 120 01/08/13 14:30 01/09/13 11:00

Client Sample ID: 0113-SB3-2051ST-SO Lab Sample ID: 280-37602-3

Date Collected: 01/06/13 11:20 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 87.9

ato 11000110 at 0 ., 00, 10 00.00								i di donit donia	ac. cc
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1800	58	ug/Kg	*	01/08/13 14:30	01/09/13 11:20	5
Acenaphthylene	140	J	1800	95	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Anthracene	250	J	1800	95	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Benzo[a]anthracene	1000	J	1800	110	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
Benzo[a]pyrene	1000	J	1800	110	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Benzo[b]fluoranthene	1500	JK	1800	150	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Benzo[g,h,i]perylene	660	J	1800	89	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
Benzo[k]fluoranthene	ND	K	1800	220	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Chrysene	1000	J	1800	150	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Dibenz(a,h)anthracene	180	J	1800	110	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
Fluoranthene	2200		1800	200	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Fluorene	ND		1800	100	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Indeno[1,2,3-cd]pyrene	530	J	1800	120	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
1-Methylnaphthalene	ND		1800	63	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
2-Methylnaphthalene	ND		1800	110	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Naphthalene	ND		1800	170	ug/Kg	\$	01/08/13 14:30	01/09/13 11:20	5
Phenanthrene	1100	J	1800	95	ug/Kg	₽	01/08/13 14:30	01/09/13 11:20	5
Pyrene	2500		1800	68	ug/Kg	₩	01/08/13 14:30	01/09/13 11:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78	D	50 - 120	01/08/13 14:30	01/09/13 11:20	5
Nitrobenzene-d5	71	D	50 - 120	01/08/13 14:30	01/09/13 11:20	5
Terphenyl-d14	89	D	55 - 120	01/08/13 14:30	01/09/13 11:20	5

Lab Sample ID: 280-37602-4 Client Sample ID: 0113-SB4-2051ST-SO Date Collected: 01/06/13 12:15 **Matrix: Solid**

Date Received: 01/08/13 09:00

Percent Solids: 95.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3300	100	ug/Kg	*	01/08/13 14:30	01/09/13 11:41	10
Acenaphthylene	ND		3300	170	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Anthracene	ND		3300	170	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Benzo[a]anthracene	ND		3300	200	ug/Kg	\$	01/08/13 14:30	01/09/13 11:41	10
Benzo[a]pyrene	ND		3300	200	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Benzo[b]fluoranthene	ND		3300	260	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Benzo[g,h,i]perylene	ND		3300	160	ug/Kg	₽	01/08/13 14:30	01/09/13 11:41	10
Benzo[k]fluoranthene	ND		3300	400	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Chrysene	ND		3300	270	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Dibenz(a,h)anthracene	ND		3300	190	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Fluoranthene	ND		3300	360	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Fluorene	ND		3300	180	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Indeno[1,2,3-cd]pyrene	ND		3300	220	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
1-Methylnaphthalene	ND		3300	110	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
2-Methylnaphthalene	ND		3300	190	ug/Kg	₩	01/08/13 14:30	01/09/13 11:41	10
Naphthalene	ND		3300	310	ug/Kg		01/08/13 14:30	01/09/13 11:41	10

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB4-2051ST-SO

Date Collected: 01/06/13 12:15

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-4

Matrix: Solid

Date Received: 01/08/13 09:00							Percent Solids: 95.2		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		3300	170	ug/Kg	*	01/08/13 14:30	01/09/13 11:41	10
Pyrene	ND		3300	120	ug/Kg	₽	01/08/13 14:30	01/09/13 11:41	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85	D	50 - 120	01/08/13 14:30	01/09/13 11:41	10
Nitrobenzene-d5	78	D	50 - 120	01/08/13 14:30	01/09/13 11:41	10
Terphenyl-d14	92	D	55 ₋ 120	01/08/13 14:30	01/09/13 11:41	10

Lab Sample ID: 280-37602-5 Client Sample ID: 0113-SB3-5CEN-SO

Date Collected: 01/06/13 15:35 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 92.2

Date Neceived. 01/00/13 03.00	U							reiteilt 3011	us. 32.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		340	11	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Acenaphthylene	ND		340	18	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Anthracene	ND		340	18	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Benzo[a]anthracene	ND		340	21	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Benzo[a]pyrene	ND		340	21	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Benzo[b]fluoranthene	ND		340	27	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Benzo[g,h,i]perylene	ND		340	16	ug/Kg	\$	01/08/13 14:30	01/09/13 12:22	1
Benzo[k]fluoranthene	ND		340	41	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Chrysene	ND		340	28	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Dibenz(a,h)anthracene	ND		340	20	ug/Kg	\$	01/08/13 14:30	01/09/13 12:22	1
Fluoranthene	ND		340	37	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Fluorene	ND		340	19	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Indeno[1,2,3-cd]pyrene	ND		340	23	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
1-Methylnaphthalene	ND		340	12	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
2-Methylnaphthalene	ND		340	20	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Naphthalene	ND		340	32	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Phenanthrene	ND		340	18	ug/Kg	₽	01/08/13 14:30	01/09/13 12:22	1
Pyrene	ND		340	12	ug/Kg	≎	01/08/13 14:30	01/09/13 12:22	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	2-Fluorobiphenyl	71		50 - 120	01/08/13 14:30	01/09/13 12:22	1
	Nitrobenzene-d5	77		50 - 120	01/08/13 14:30	01/09/13 12:22	1
ı	Terphenyl-d14	82		55 - 120	01/08/13 14:30	01/09/13 12:22	1

Client Sample ID: 0113-SB4-5CEN-SO Lab Sample ID: 280-37602-6 **Matrix: Solid**

Date Collected: 01/06/13 16:10 Date Received: 01/08/13 09:00

Percent Solids: 93.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		350	11	ug/Kg	*	01/08/13 14:30	01/09/13 13:24	1
Acenaphthylene	ND		350	18	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Anthracene	ND		350	18	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Benzo[a]anthracene	ND		350	21	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Benzo[a]pyrene	ND		350	21	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Benzo[b]fluoranthene	ND		350	28	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Benzo[g,h,i]perylene	ND		350	17	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Benzo[k]fluoranthene	ND		350	42	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Chrysene	ND		350	28	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1
Dibenz(a,h)anthracene	ND		350	20	ug/Kg	₩	01/08/13 14:30	01/09/13 13:24	1

Client: CDM Smith, Inc.

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Client Sample ID: 0113-SB4-5CEI Date Collected: 01/06/13 16:10	N-SO						Lab S	Sample ID: 280- Matri	37602-6 x: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		350	38	ug/Kg	<u> </u>	01/08/13 14:30	01/09/13 13:24	1
Fluorene	ND		350	19	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Indeno[1,2,3-cd]pyrene	ND		350	23	ug/Kg	\$	01/08/13 14:30	01/09/13 13:24	1
1-Methylnaphthalene	ND		350	12	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
2-Methylnaphthalene	ND		350	20	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Naphthalene	ND		350	33	ug/Kg		01/08/13 14:30	01/09/13 13:24	1
Phenanthrene	ND		350	18	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Pyrene	ND		350	13	ug/Kg	₽	01/08/13 14:30	01/09/13 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		50 - 120				01/08/13 14:30	01/09/13 13:24	1
Nitrobenzene-d5	73		50 - 120				01/08/13 14:30	01/09/13 13:24	1
Terphenyl-d14	84		55 - 120				01/08/13 14:30	01/09/13 13:24	1

Client Sample ID: 0113-SB6-5CEN-SO Lab Sample ID: 280-37602-7 Date Collected: 01/06/13 16:50 **Matrix: Solid**

Percent Solids: 93.5

Date Received: 01/08/13 09:00 Result Qualifier Analyte RLMDL Unit D Prepared Analyzed Dil Fac Acenaphthene ND 350 11 ug/Kg 01/08/13 14:30 01/09/13 13:45 ND 350 ug/Kg Acenaphthylene 01/08/13 14:30 01/09/13 13:45 18 ₩ Anthracene ND 350 ug/Kg 01/08/13 14:30 01/09/13 13:45 Benzo[a]anthracene ND 350 21 ug/Kg 01/08/13 14:30 01/09/13 13:45 Benzo[a]pyrene ND 350 ug/Kg 01/08/13 14:30 01/09/13 13:45 350 01/08/13 14:30 01/09/13 13:45 Benzo[b]fluoranthene ug/Kg 29 28 J K ₽ 350 01/08/13 14:30 Benzo[g,h,i]perylene ND 17 ug/Kg 01/09/13 13:45 Benzo[k]fluoranthene ND K 350 43 ug/Kg 01/08/13 14:30 01/09/13 13:45 ND 350 Chrysene 29 ug/Kg 01/08/13 14:30 01/09/13 13:45 Dibenz(a,h)anthracene ND 350 20 ug/Kg 01/08/13 14:30 01/09/13 13:45 Fluoranthene ND 350 38 ug/Kg 01/08/13 14:30 01/09/13 13:45 Fluorene ND 350 19 ug/Kg 01/08/13 14:30 01/09/13 13:45 350 01/08/13 14:30 Indeno[1,2,3-cd]pyrene ND 01/09/13 13:45 23 ug/Kg 1-Methylnaphthalene ND 350 01/08/13 14:30 01/09/13 13:45 12 ug/Kg 2-Methylnaphthalene ND 350 01/08/13 14:30 01/09/13 13:45 ug/Kg 20 ₩ Naphthalene ND 350 ug/Kg 01/08/13 14:30 01/09/13 13:45 350 18 ug/Kg 01/08/13 14:30 01/09/13 13:45 **Phenanthrene** 23 J **Pyrene** 33 J 350 13 ug/Kg 01/08/13 14:30 01/09/13 13:45

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		50 - 120	0	1/08/13 14:30	01/09/13 13:45	1
Nitrobenzene-d5	77		50 - 120	0	1/08/13 14:30	01/09/13 13:45	1
Terphenyl-d14	85		55 - 120	0	1/08/13 14:30	01/09/13 13:45	1

Client Sample ID: 0113-SB5-5CEN-SO Date Collected: 01/06/13 17:35

Lab Sample ID: 280-37602-8 **Matrix: Solid**

Percent Solids: 93.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		330	10	ug/Kg	*	01/08/13 14:30	01/09/13 14:06	1
Acenaphthylene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Anthracene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1
Benzofalanthracene	ND		330	20	ua/Ka		01/08/13 14:30	01/09/13 14:06	1

RL

330

330

330

330

330

330

27 ug/Kg

19 ug/Kg

12 ug/Kg ₽

01/08/13 14:30

01/08/13 14:30

Client: CDM Smith, Inc.

Analyte

Chrysene

Fluorene

Pyrene

Pyrene

Benzo[a]pyrene

Benzo[b]fluoranthene

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Dibenz(a,h)anthracene

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-5CEN-SO Date Collected: 01/06/13 17:35

Date Received: 01/08/13 09:00

TestAmerica Job ID: 280-37602-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Result Qualifier

ND

ND

ND

ND

ND

ND

ND

ND

I ah	Sample	ID: 1	280.	-3760	12-8

Matrix: Solid

ont Solids: 03 0

			Percent Soil	as: 93.9	
Unit	D	Prepared	Analyzed	Dil Fac	
ug/Kg	₩	01/08/13 14:30	01/09/13 14:06	1	
ug/Kg	₩	01/08/13 14:30	01/09/13 14:06	1	
ug/Kg	\$	01/08/13 14:30	01/09/13 14:06	1	
ug/Kg	₽	01/08/13 14:30	01/09/13 14:06	1	
	ug/Kg ug/Kg ug/Kg	ug/Kg # ug/Kg # ug/Kg #	ug/Kg 01/08/13 14:30 ug/Kg 01/08/13 14:30 ug/Kg 01/08/13 14:30	Unit D Prepared Analyzed ug/Kg © 01/08/13 14:30 01/09/13 14:06 ug/Kg © 01/08/13 14:30 01/09/13 14:06 ug/Kg © 01/08/13 14:30 01/09/13 14:06	ug/Kg © 01/08/13 14:30 01/09/13 14:06 1 ug/Kg © 01/08/13 14:30 01/09/13 14:06 1 ug/Kg © 01/08/13 14:30 01/09/13 14:06 1

01/08/13 14:30 01/09/13 14:06 01/08/13 14:30 01/09/13 14:06 01/09/13 14:06 01/09/13 14:06

01/09/13 14:06

₩ Fluoranthene ND 330 36 ug/Kg 01/08/13 14:30 ND 330 01/08/13 14:30 18 ug/Kg ND 330 01/08/13 14:30 Indeno[1,2,3-cd]pyrene 22 ug/Kg 01/09/13 14:06 330 01/08/13 14:30 1-Methylnaphthalene ND 11 ug/Kg 01/09/13 14:06 ġ 2-Methylnaphthalene ND 330 01/08/13 14:30 19 ug/Kg 01/09/13 14:06 ā Naphthalene ND 330 31 01/08/13 14:30 01/09/13 14:06 ug/Kg ND Phenanthrene 330 17 ug/Kg 01/08/13 14:30 01/09/13 14:06

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 2-Fluorobiphenyl 75 50 - 120 01/08/13 14:30 01/09/13 14:06 Nitrobenzene-d5 79 50 - 120 01/08/13 14:30 01/09/13 14:06 85 01/08/13 14:30 Terphenyl-d14 55 - 120 01/09/13 14:06

330

Client Sample ID: 0113-SB6-2051ST-SO Lab Sample ID: 280-37602-9 Date Collected: 01/06/13 12:55 **Matrix: Solid**

> 59 ug/Kg

Date Received: 01/08/13 09:00

Percent Solids: 94.7 Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed ₩ 1600 01/08/13 14:30 01/09/13 12:02 Acenaphthene ND 51 ug/Kg 5 ₽ Acenaphthylene ND 1600 ug/Kg 01/08/13 14:30 01/09/13 12:02 5 83 # ND 1600 01/08/13 14:30 5 Anthracene 83 ug/Kg 01/09/13 12:02 ₽ Benzo[a]anthracene ND 1600 98 ug/Kg 01/08/13 14:30 01/09/13 12:02 5 ₽ Benzo[a]pyrene ND 1600 98 ug/Kg 01/08/13 14:30 01/09/13 12:02 5 Benzo[b]fluoranthene ND 1600 130 ug/Kg 01/08/13 14:30 01/09/13 12:02 5 01/08/13 14:30 5 Benzo[g,h,i]perylene ND 1600 01/09/13 12:02 78 ug/Kg ä Benzo[k]fluoranthene ND 1600 01/08/13 14:30 01/09/13 12:02 5 200 ug/Kg 01/08/13 14:30 5 Chrysene ND 1600 01/09/13 12:02 130 ug/Kg Dibenz(a,h)anthracene ND 1600 01/08/13 14:30 01/09/13 12:02 5 ug/Kg Fluoranthene ND 1600 01/08/13 14:30 01/09/13 12:02 5 180 ug/Kg Fluorene ND 1600 88 ug/Kg ₽ 01/08/13 14:30 01/09/13 12:02 5 Indeno[1,2,3-cd]pyrene ND 1600 110 ug/Kg ₽ 01/08/13 14:30 01/09/13 12:02 5 ŭ 1-Methylnaphthalene ND 1600 ug/Kg 01/08/13 14:30 01/09/13 12:02 5 ug/Kg 2-Methylnaphthalene ND 1600 93 01/08/13 14:30 01/09/13 12:02 5 φ 1600 Naphthalene ND 01/08/13 14:30 5 150 ug/Kg 01/09/13 12:02 ₽ Phenanthrene ND 1600 83 ug/Kg 01/08/13 14:30 01/09/13 12:02 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90	D	50 - 120	01/08/13 14:30	01/09/13 12:02	5
Nitrobenzene-d5	91	D	50 - 120	01/08/13 14:30	01/09/13 12:02	5
Terphenyl-d14	91	D	55 - 120	01/08/13 14:30	01/09/13 12:02	5

1600

TestAmerica Denver

01/09/13 12:02

5

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-11

Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: 0113-SB5-2051ST-SO Lab Sample ID: 280-37602-10 Date Collected: 01/06/13 13:30 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 93.6 Result Qualifier RL MDL Unit D Prepared Dil Fac Analyte Analyzed ₩ Acenaphthene ND 350 11 ug/Kg 01/08/13 14:30 01/09/13 14:27 350 ug/Kg 01/08/13 14:30 01/09/13 14:27 Acenaphthylene ND 18 ₽ Anthracene ND 350 18 ug/Kg 01/08/13 14:30 01/09/13 14:27 Benzo[a]anthracene ND 350 21 ug/Kg 01/08/13 14:30 01/09/13 14:27 Benzo[a]pyrene ND 350 21 ug/Kg 01/08/13 14:30 01/09/13 14:27 Benzo[b]fluoranthene ND 350 01/08/13 14:30 01/09/13 14:27 28 ug/Kg ₽ Benzo[g,h,i]perylene ND 350 17 ug/Kg 01/08/13 14:30 01/09/13 14:27 Benzo[k]fluoranthene ND 350 01/08/13 14:30 01/09/13 14:27 42 ug/Kg ND 350 01/08/13 14:30 Chrysene 29 ug/Kg 01/09/13 14:27 ND 350 01/08/13 14:30 Dibenz(a,h)anthracene 20 ug/Kg 01/09/13 14:27 Fluoranthene ND 350 01/08/13 14:30 01/09/13 14:27 38 ug/Kg Fluorene ND 350 01/08/13 14:30 01/09/13 14:27 19 ug/Kg ND 350 Indeno[1,2,3-cd]pyrene 23 ug/Kg 01/08/13 14:30 01/09/13 14:27 1-Methylnaphthalene ND 350 12 ug/Kg 01/08/13 14:30 01/09/13 14:27 2-Methylnaphthalene ND 350 20 ug/Kg 01/08/13 14:30 01/09/13 14:27 Ö Naphthalene ND 350 ug/Kg 01/08/13 14:30 01/09/13 14:27 Phenanthrene ND 350 ug/Kg 01/08/13 14:30 18 01/09/13 14:27 Pyrene ND 350 ug/Kg 01/08/13 14:30 01/09/13 14:27

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74	50 - 120	01/08/13 14:30	01/09/13 14:27	1
Nitrobenzene-d5	76	50 ₋ 120	01/08/13 14:30	01/09/13 14:27	1
Terphenyl-d14	84	55 - 120	01/08/13 14:30	01/09/13 14:27	1

Client Sample ID: 0113-SB1-5CEN-SO

Date Collected: 01/06/13 14:15

2-Fluorobiphenyl

Nitrobenzene-d5

Date Received: 01/08/13 09:00								Percent Soli	ds: 94.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		330	10	ug/Kg	\	01/08/13 14:30	01/09/13 14:47	1
Acenaphthylene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Anthracene	ND		330	17	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Benzo[a]anthracene	ND		330	20	ug/Kg	φ.	01/08/13 14:30	01/09/13 14:47	1
Benzo[a]pyrene	ND		330	20	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Benzo[b]fluoranthene	ND		330	27	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Benzo[g,h,i]perylene	ND		330	16	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Benzo[k]fluoranthene	ND		330	40	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Chrysene	ND		330	27	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Dibenz(a,h)anthracene	ND		330	19	ug/Kg	\$	01/08/13 14:30	01/09/13 14:47	1
Fluoranthene	ND		330	36	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Fluorene	ND		330	18	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
Indeno[1,2,3-cd]pyrene	ND		330	22	ug/Kg	\$	01/08/13 14:30	01/09/13 14:47	1
1-Methylnaphthalene	ND		330	11	ug/Kg	₽	01/08/13 14:30	01/09/13 14:47	1
2-Methylnaphthalene	ND		330	19	ug/Kg	₩	01/08/13 14:30	01/09/13 14:47	1
Naphthalene	ND		330	31	ug/Kg		01/08/13 14:30	01/09/13 14:47	1
Phenanthrene	17	J	330	17	ug/Kg	₩	01/08/13 14:30	01/09/13 14:47	1
Pyrene	21	J	330	12	ug/Kg	₩	01/08/13 14:30	01/09/13 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

TestAmerica Denver

01/09/13 14:47

01/09/13 14:47

01/08/13 14:30

01/08/13 14:30

50 - 120

50 - 120

76

77

3

4

5

7

0

10

12

10

14

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Matrix: Solid

Percent Solids: 94.4

Client Sample ID: 0113-SB1-5CEN-SO Lab Sample ID: 280-37602-11

Date Collected: 01/06/13 14:15 Date Received: 01/08/13 09:00

Date Collected: 01/06/13 14:50

Client Sample ID: 0113-SB2-5CEN-SO

Surrogate %Recovery Qualifier Limits Prepared Analyzed Terphenyl-d14 84 55 - 120 01/08/13 14:30 01/09/13 14:47

Lab Sample ID: 280-37602-12

IV	latrix:	Solid	t
Percent S	Solids	: 93.6	6

Date Received: 01/08/13 09:00								Percent Soli	ds: 93.6
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		350	11	ug/Kg	<u></u>	01/08/13 14:30	01/09/13 15:08	1
Acenaphthylene	ND		350	18	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Anthracene	ND		350	18	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Benzo[a]anthracene	ND		350	21	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
Benzo[a]pyrene	ND		350	21	ug/Kg	₩	01/08/13 14:30	01/09/13 15:08	1
Benzo[b]fluoranthene	ND		350	28	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Benzo[g,h,i]perylene	ND		350	17	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
Benzo[k]fluoranthene	ND		350	42	ug/Kg	₩	01/08/13 14:30	01/09/13 15:08	1
Chrysene	ND		350	29	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Dibenz(a,h)anthracene	ND		350	20	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
Fluoranthene	ND		350	38	ug/Kg	₩	01/08/13 14:30	01/09/13 15:08	1
Fluorene	ND		350	19	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Indeno[1,2,3-cd]pyrene	ND		350	23	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
1-Methylnaphthalene	ND		350	12	ug/Kg	₩	01/08/13 14:30	01/09/13 15:08	1
2-Methylnaphthalene	ND		350	20	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Naphthalene	ND		350	33	ug/Kg		01/08/13 14:30	01/09/13 15:08	1
Phenanthrene	ND		350	18	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1
Pyrene	ND		350	13	ug/Kg	₽	01/08/13 14:30	01/09/13 15:08	1

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75	50 - 120	01/08/13 14:30	01/09/13 15:08	1
Nitrobenzene-d5	84	50 - 120	01/08/13 14:30	01/09/13 15:08	1
Terphenyl-d14	84	55 ₋ 120	01/08/13 14:30	01/09/13 15:08	1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client: CDM Smith, Inc.

Surrogate

a,a,a-Trifluorotoluene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

							, ,	<u>'</u>	
Client Sample ID: 0113-SB1-2051	ST-SO						Lab S	Sample ID: 280-	-37602-1
Date Collected: 01/06/13 09:30								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.47	J	1.3	0.35	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		77 - 123				01/08/13 11:07	01/08/13 14:50	1
Client Sample ID: 0113-SB2-2051	ST-SO						Lab S	Sample ID: 280-	-37602-2
Date Collected: 01/06/13 10:25									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	0.60	J	1.3	0.35	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		77 - 123				01/08/13 11:07	01/08/13 15:19	1
Client Sample ID: 0113-SB3-2051	ST-SO						Lab	Sample ID: 280-	37602-3
Date Collected: 01/06/13 11:20	31-30						Lab		ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		1.4	0.37	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 16:48	1
G. (66 616)	110			0.07	mg/rtg		01/00/10 11.07	0 1700/10 10:10	·
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene —	102		77 - 123				01/08/13 11:07	01/08/13 16:48	1
Client Sample ID: 0113-SB4-2051	ST-SO						Lab S	Sample ID: 280-	-37602-4
Date Collected: 01/06/13 12:15								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 95.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		1.2	0.34	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		77 - 123				01/08/13 11:07	01/08/13 17:17	1
- Client Sample ID: 0113-SB3-5CEN	I-SO						Lab S	Sample ID: 280-	-37602-5
Date Collected: 01/06/13 15:35								Matri	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		1.3	0.35	mg/Kg	<u> </u>	01/08/13 11:07	01/08/13 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	107		77 - 123				01/08/13 11:07	01/08/13 17:47	1
	1.60						1-1-6	Samula ID: 000	27600.0
Client Sample ID: 0113-SB4-5CEN	I-3U						Lab	Sample ID: 280	
Date Collected: 01/06/13 16:10									ix: Solid
Date Received: 01/08/13 09:00	Dog::l4	Qualifier	RL	MD	Unit	D	Droporod	Percent Soli	ds: 93.5 Dil Fac
Analyte GRO (C6-C10)	ND	- Quanner	1.3		mg/Kg	— ¤	Prepared 01/08/13 11:07	Analyzed 01/08/13 18:46	1
ONO (00-010)	IND		1.3	0.35	mymy	T	01/00/13 11.0/	01/00/13 10.40	ı
0	0/5	A 1:C:	,						D" -

TestAmerica Denver

Dil Fac

Analyzed

Prepared

Limits

77 - 123

%Recovery Qualifier

106

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client: CDM Smith, Inc.

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Client Sample ID: 0113-SB6-5CEI	N-SO						Lab S	Sample ID: 280-	37602
Date Collected: 01/06/13 16:50								Matri	x: Sol
Date Received: 01/08/13 09:00								Percent Soli	ds: 93
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
GRO (C6-C10)	ND		1.3	0.35	mg/Kg	\	01/08/13 11:07	01/08/13 19:15	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	108		77 - 123				01/08/13 11:07	01/08/13 19:15	
Client Sample ID: 0113-SB5-5CEI	N-SO						Lab S	Sample ID: 280-	37602
Date Collected: 01/06/13 17:35									x: Sol
Date Received: 01/08/13 09:00								Percent Soli	ds: 93
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
GRO (C6-C10)	ND		1.3	0.35	mg/Kg	\	01/08/13 11:07	01/08/13 19:45	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	107		77 - 123				01/08/13 11:07	01/08/13 19:45	
Client Sample ID: 0113-SB6-2051	ST-SO						Lab S	Sample ID: 280-	37602
Date Collected: 01/06/13 12:55									x: So
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
GRO (C6-C10)	ND	-	1.3	0.34	mg/Kg		01/08/13 11:07	01/08/13 20:14	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	106	-	77 - 123				01/08/13 11:07	01/08/13 20:14	
Client Sample ID: 0113-SB5-2051	27 20						I ab S	ample ID: 280-3	7602
Date Collected: 01/06/13 13:30	31-30						Lab 3		x: So
Date Received: 01/08/13 09:00	Popult	Qualifier	DI	MDI	Unit	D	Branarad	Percent Soli	as: 93 Dil F
Analyte GRO (C6-C10)	ND	Quaimer	1.3 —		mg/Kg	— ¤	Prepared 01/08/13 11:07	Analyzed 01/08/13 20:44	- DII F
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	- %Recovery 106	Quanner	77 - 123				01/08/13 11:07	01/08/13 20:44	- DII F
Client Sample ID: 0113-SB1-5CEI	N-SO						Lab Sa	ample ID: 280-3	
Date Collected: 01/06/13 14:15								Matri	x: So
Date Received: 01/08/13 09:00								Percent Soli	ds: 94
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
GRO (C6-C10)	ND		1.3	0.34	mg/Kg	#	01/08/13 11:07	01/08/13 21:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
a,a,a-Trifluorotoluene	103		77 - 123				01/08/13 11:07	01/08/13 21:13	
Client Sample ID: 0113-SB2-5CEI	N-SO						Lab Sa	ample ID: 280-3	7602-
Date Collected: 01/06/13 14:50								Matri	x: So
Date Received: 01/08/13 09:00								Percent Soli	ds: 93
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Allalyto		-		0.24	mg/Kg		01/08/13 11:07	01/08/13 21:43	
GRO (C6-C10)	ND		1.3	0.34	mg/rtg		01/00/10 11.07	01/00/10 21.40	
<u> </u>	ND %Recovery	Qualifier	1.3 Limits	0.34	mg/Kg		Prepared	Analyzed	Dil F

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client: CDM Smith, Inc.

o-Terphenyl

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Client Sample ID: 0113-SB1-2051	ST-SO						Lab S	Sample ID: 280	
Date Collected: 01/06/13 09:30									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte		Qualifier	- RL		Unit	— D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	270		4.3	0.73	mg/Kg	34:	01/08/13 12:20	01/09/13 10:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	83		49 - 115				01/08/13 12:20	01/09/13 10:50	1
Client Sample ID: 0113-SB2-2051	ST-SO						Lab S	Sample ID: 280	37602-2
Date Collected: 01/06/13 10:25								Matr	ix: Solic
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	51		4.2	0.72	mg/Kg	*	01/08/13 12:20	01/09/13 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86		49 - 115				01/08/13 12:20	01/09/13 12:03	1
Client Sample ID: 0113-SB3-2051	ST-SO						Lab S	Sample ID: 280	37602-3
Date Collected: 01/06/13 11:20								Matr	ix: Solic
Date Received: 01/08/13 09:00								Percent Soli	ds: 87.9
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	48		4.5	0.76	mg/Kg	*	01/08/13 12:20	01/09/13 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	92		49 - 115				01/08/13 12:20	01/09/13 12:28	1
Client Sample ID: 0113-SB4-2051	ST-SO						Lab S	Sample ID: 280	37602-4
Date Collected: 01/06/13 12:15								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 95.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	39		4.2	0.71	mg/Kg	*	01/08/13 12:20	01/09/13 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		49 _ 115				01/08/13 12:20	01/09/13 12:52	1
Client Sample ID: 0113-SB3-5CEN	N-SO						Lab S	Sample ID: 280	37602-5
Date Collected: 01/06/13 15:35								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	0.90	J	4.0	0.68	mg/Kg	₩	01/08/13 12:20	01/09/13 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl -	71		49 - 115				01/08/13 12:20	01/09/13 13:17	1
Client Sample ID: 0113-SB4-5CEN	N-SO						Lab S	Sample ID: 280	37602-6
Date Collected: 01/06/13 16:10									ix: Solic
Date Received: 01/08/13 09:00								Percent Soli	
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		4.0	0.68	mg/Kg	*	01/08/13 12:20	01/09/13 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			10 115				04/00/40 40:00	04/00/40 40:44	

TestAmerica Denver

49 - 115

75

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Date Collected: 01/06/13 16:50									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
DRO (C10-C28)	2.2	J	4.2	0.70	mg/Kg	*	01/08/13 12:20	01/09/13 14:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	61		49 - 115				01/08/13 12:20	01/09/13 14:06	
Client Sample ID: 0113-SB5-5CEN-	SO						Lab S	Sample ID: 280-	-37602-
Date Collected: 01/06/13 17:35								Matri	ix: Soli
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
DRO (C10-C28)	1.0	J	4.0	0.68	mg/Kg	₩	01/08/13 12:20	01/09/13 14:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	76		49 - 115				01/08/13 12:20	01/09/13 14:31	
Client Sample ID: 0113-SB6-2051S	r-so						Lah S	Sample ID: 280-	.37602-
Date Collected: 01/06/13 12:55									ix: Soli
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
DRO (C10-C28)	57		4.1	0.70	mg/Kg	<u> </u>	01/08/13 12:20	01/09/13 14:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	62		49 - 115				01/08/13 12:20	01/09/13 14:56	
Client Sample ID: 0113-SB5-2051S	r-so						Lab Sa	mple ID: 280-3	7602-1
Date Collected: 01/06/13 13:30								Matri	ix: Soli
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
DRO (C10-C28)	1.2	J	4.0	0.68	mg/Kg	\	01/08/13 12:20	01/09/13 15:20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	77		49 - 115				01/08/13 12:20	01/09/13 15:20	
Client Sample ID: 0113-SB1-5CEN-	SO						Lah Sa	mple ID: 280-3	7602-1
Date Collected: 01/06/13 14:15									ix: Soli

Date Received: 01/08/13 09:00								Percent Soli	ds: 94.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	8.0		4.0	0.68	mg/Kg	\	01/08/13 12:20	01/09/13 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qua	lifier Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71	49 - 115	01/08/13 12:20	01/09/13 15:45	1

Client Sample ID: 0113-SB2-5CEN-SO							Lab S	ample ID: 280-3	7602-12
Date Collected: 01/06/13 14:50								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.6
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

DRO (C10-C28)	ND	4.0	0.68 mg/Kg	01/08/13 12:20	01/09/13 16:20	1
Surrogate	%Recovery Quali	ifier Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	70	49 - 115		01/08/13 12:20	01/09/13 16:20	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 6010B - Metals (ICP)

Client Sample ID: 0113-SB1-2051ST-SC)						Lab S	Sample ID: 280-	37602-1
Date Collected: 01/06/13 09:30								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		1.9	0.64	mg/Kg	*	01/09/13 08:00	01/09/13 17:10	1
Barium	240		0.96	0.073	mg/Kg	₩	01/09/13 08:00	01/09/13 17:10	1
Cadmium	0.37	J	0.48	0.040	mg/Kg	₽	01/09/13 08:00	01/09/13 17:10	1
Chromium	11		1.4	0.056	mg/Kg	₽	01/09/13 08:00	01/09/13 17:10	1
Lead	27		0.77	0.26	mg/Kg	₽	01/09/13 08:00	01/09/13 17:10	1
Selenium	ND		1.3	0.83	mg/Kg	₩	01/09/13 08:00	01/09/13 17:10	1
Silver	ND		0.96	0.15	mg/Kg	₽	01/09/13 08:00	01/09/13 17:10	1
_									

	Unit	D	Duamanad	Percent Soli	ix: Solid ds: 92.3
	Unit	D	Duamanad		ds: 92.3
	Unit	D	Duamanad		
		_	Prepared	Analyzed	Dil Fac
0.66	mg/Kg	₩	01/09/13 08:00	01/09/13 17:19	1
0.076	mg/Kg	₽	01/09/13 08:00	01/09/13 17:19	1
0.041	mg/Kg	₽	01/09/13 08:00	01/09/13 17:19	1
0.058	mg/Kg	₽	01/09/13 08:00	01/09/13 17:19	1
0.27	mg/Kg	₩	01/09/13 08:00	01/09/13 17:19	1
0.86	mg/Kg	₽	01/09/13 08:00	01/09/13 17:19	1
0.16	mg/Kg	₽	01/09/13 08:00	01/09/13 17:19	1
	0.076 0.041 0.058 0.27 0.86	0.66 mg/Kg 0.076 mg/Kg 0.041 mg/Kg 0.058 mg/Kg	0.66 mg/Kg	0.66 mg/Kg	0.66 mg/Kg © 01/09/13 08:00 01/09/13 17:19 0.076 mg/Kg © 01/09/13 08:00 01/09/13 17:19 0.041 mg/Kg © 01/09/13 08:00 01/09/13 17:19 0.058 mg/Kg © 01/09/13 08:00 01/09/13 17:19 0.27 mg/Kg © 01/09/13 08:00 01/09/13 17:19 0.86 mg/Kg © 01/09/13 08:00 01/09/13 17:19

Client Sample ID: 0113-563-205151-5	O						Lab 3	eample וט: 280-	3/602-3
Date Collected: 01/06/13 11:20								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 87.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		1.9	0.63	mg/Kg	₩	01/09/13 08:00	01/09/13 17:22	1
Barium	200		0.96	0.073	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1
Cadmium	0.37	J	0.48	0.039	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1
Chromium	12		1.4	0.055	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1
Lead	32		0.76	0.26	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1
Selenium	ND		1.2	0.82	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1
Silver	ND		0.96	0.15	mg/Kg	₽	01/09/13 08:00	01/09/13 17:22	1

Client Sample ID: 0113-SB4-2051ST-SC							Lab S	Sample ID: 280-	37602-4
Date Collected: 01/06/13 12:15								Matri	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 95.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		1.9	0.62	mg/Kg	₩	01/09/13 08:00	01/09/13 17:33	1
Barium	100		0.94	0.071	mg/Kg	₽	01/09/13 08:00	01/09/13 17:33	1
Cadmium	0.26	J	0.47	0.038	mg/Kg	₽	01/09/13 08:00	01/09/13 17:33	1
Chromium	13		1.4	0.054	mg/Kg	₽	01/09/13 08:00	01/09/13 17:33	1
Lead	4.2		0.75	0.25	mg/Kg	₽	01/09/13 08:00	01/09/13 17:33	1
Selenium	ND		1.2	0.81	mg/Kg	₽	01/09/13 08:00	01/09/13 17:33	1
Silver	ND		0.94	0.15	mg/Kg	\$	01/09/13 08:00	01/09/13 17:33	1

Client Sample ID: 0113-SB3-5CEN-SO							Lab S	Sample ID: 280-	37602-5
Date Collected: 01/06/13 15:35								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		1.9	0.62	mg/Kg	*	01/09/13 08:00	01/09/13 17:36	1
Barium	140		0.94	0.072	mg/Kg	₽	01/09/13 08:00	01/09/13 17:36	1

TestAmerica Denver

Lab Sample ID: 280-37602-4

Lab Sample ID: 280-37602-7

Client: CDM Smith, Inc.

Client Sample ID: 0113-SB6-5CEN-SO

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: 0113-SB3-5CEN-SO							Lab S	Sample ID: 280-	37602-5
Date Collected: 01/06/13 15:35								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.24	J	0.47	0.039	mg/Kg		01/09/13 08:00	01/09/13 17:36	1
Chromium	9.3		1.4	0.055	mg/Kg	\$	01/09/13 08:00	01/09/13 17:36	1
Lead	3.8		0.75	0.25	mg/Kg	₽	01/09/13 08:00	01/09/13 17:36	1
Selenium	ND		1.2	0.81	mg/Kg	₽	01/09/13 08:00	01/09/13 17:36	1
Silver	ND		0.04	0.15	ma/Ka	-	01/00/13 08:00	01/00/13 17:36	1

Client Sample ID: 0113-SB4-5CEN-S	0						Lab S	Sample ID: 280-	37602-6
Date Collected: 01/06/13 16:10								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		1.9	0.64	mg/Kg	\	01/09/13 08:00	01/09/13 17:39	1
Barium	97		0.96	0.073	mg/Kg	₩	01/09/13 08:00	01/09/13 17:39	1
Cadmium	0.25	J	0.48	0.039	mg/Kg	₩	01/09/13 08:00	01/09/13 17:39	1
Chromium	7.6		1.4	0.056	mg/Kg	\$	01/09/13 08:00	01/09/13 17:39	1
Lead	3.2		0.77	0.26	mg/Kg	₩	01/09/13 08:00	01/09/13 17:39	1
Selenium	0.84	J	1.3	0.83	mg/Kg	₩	01/09/13 08:00	01/09/13 17:39	1
Silver	ND		0.96	0.15	ma/Ka		01/09/13 08:00	01/09/13 17:39	1

Date Collected: 01/06/13 16:50								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		1.8	0.59	mg/Kg	₩	01/09/13 08:00	01/09/13 17:41	1
Barium	140		0.90	0.068	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Cadmium	0.36	J	0.45	0.037	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Chromium	9.2		1.3	0.052	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Lead	7.8		0.72	0.24	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Selenium	ND		1.2	0.77	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1
Silver	ND		0.90	0.14	mg/Kg	₽	01/09/13 08:00	01/09/13 17:41	1

Client Sample ID: 0113-SB5-5CEN	-SO						Lab S	Sample ID: 280-	37602-8
Date Collected: 01/06/13 17:35								Matri	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		2.0	0.66	mg/Kg		01/09/13 08:00	01/09/13 17:44	1
Barium	150		1.0	0.076	mg/Kg	₽	01/09/13 08:00	01/09/13 17:44	1
Cadmium	0.25	J	0.50	0.041	mg/Kg	₩	01/09/13 08:00	01/09/13 17:44	1
Chromium	7.9		1.5	0.058	mg/Kg	₽	01/09/13 08:00	01/09/13 17:44	1
Lead	3.7		0.80	0.27	mg/Kg	₽	01/09/13 08:00	01/09/13 17:44	1
Selenium	ND		1.3	0.86	mg/Kg	₽	01/09/13 08:00	01/09/13 17:44	1
Silver	ND		1.0	0.16	mg/Kg	₽	01/09/13 08:00	01/09/13 17:44	1

Client Sample ID: 0113-SB6-2051S1-SO							Lab S	Sample ID: 280-	3/602-9
Date Collected: 01/06/13 12:55								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 94.7
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		1.8	0.59	mg/Kg	\	01/09/13 08:00	01/09/13 17:46	1
Barium	130		0.90	0.068	mg/Kg	₩	01/09/13 08:00	01/09/13 17:46	1
Cadmium	0.23	J	0.45	0.037	mg/Kg	₩	01/09/13 08:00	01/09/13 17:46	1
Chromium	11		1.3	0.052	mg/Kg	₽	01/09/13 08:00	01/09/13 17:46	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: 0113-SB6-2051ST					Lab S	Sample ID: 280-	37602-9		
Date Collected: 01/06/13 12:55								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 94.7
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.5		0.72	0.24	mg/Kg	*	01/09/13 08:00	01/09/13 17:46	1
Selenium	ND		1.2	0.77	mg/Kg	₩	01/09/13 08:00	01/09/13 17:46	1
Silver	ND		0.90	0.14	ma/Ka	₽	01/09/13 08:00	01/09/13 17:46	1

Client Sample ID: 0113-SB5-205	1ST-SO					Lab Sa	ample ID: 280-3	7602-10
Date Collected: 01/06/13 13:30							Matri	x: Solid
Date Received: 01/08/13 09:00							Percent Soli	ds: 93.6
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1	2.1	0.68	mg/Kg	\$	01/09/13 08:00	01/09/13 17:49	1
Barium	170	1.0	0.078	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1
Cadmium	0.27 J	0.51	0.042	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1
Chromium	28	1.5	0.060	mg/Kg	\$	01/09/13 08:00	01/09/13 17:49	1
Lead	4.4	0.82	0.28	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1
Selenium	ND	1.3	0.88	mg/Kg	₽	01/09/13 08:00	01/09/13 17:49	1
Silver	ND	1.0	0.16	mg/Kg	\$	01/09/13 08:00	01/09/13 17:49	1

Client Sample ID: 0113-SB1-5CEN-SO							Lab Sa	ample ID: 280-3	7602-11
Date Collected: 01/06/13 14:15								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 94.4
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.3		1.9	0.64	mg/Kg	\$	01/09/13 08:00	01/09/13 17:51	1
Barium	110		0.96	0.073	mg/Kg	₽	01/09/13 08:00	01/09/13 17:51	1
Cadmium	0.24	J	0.48	0.039	mg/Kg	₽	01/09/13 08:00	01/09/13 17:51	1
Chromium	8.9		1.4	0.056	mg/Kg	₽	01/09/13 08:00	01/09/13 17:51	1
Lead	3.7		0.77	0.26	mg/Kg	₽	01/09/13 08:00	01/09/13 17:51	1
Selenium	ND		1.3	0.83	mg/Kg	₽	01/09/13 08:00	01/09/13 17:51	1
Silver	ND		0.96	0.15	mg/Kg	₽	01/09/13 08:00	01/09/13 17:51	1

Client Sample ID: 0113-SB2-5CEN-SO							Lab Sa	ample ID: 280-3	7602-12
Date Collected: 01/06/13 14:50								Matri	x: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 93.6
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		1.9	0.63	mg/Kg	\	01/09/13 08:00	01/09/13 17:54	1
Barium	110		0.95	0.073	mg/Kg	₩	01/09/13 08:00	01/09/13 17:54	1
Cadmium	0.26	J	0.48	0.039	mg/Kg	₩	01/09/13 08:00	01/09/13 17:54	1
Chromium	9.9		1.4	0.055	mg/Kg	₽	01/09/13 08:00	01/09/13 17:54	1
Lead	3.9		0.76	0.26	mg/Kg	₩	01/09/13 08:00	01/09/13 17:54	1
Selenium	ND		1.2	0.82	mg/Kg	₩	01/09/13 08:00	01/09/13 17:54	1
Silver	ND		0.95	0.15	mg/Kg	₽	01/09/13 08:00	01/09/13 17:54	1

Client: CDM Smith, Inc.

TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 7471A - Mercury (CVAA)

Date Collected: 01/06/13 17:35

Date Received: 01/08/13 09:00

Date Collected: 01/06/13 12:55

Date Received: 01/08/13 09:00

Client Sample ID: 0113-SB6-2051ST-SO

Analyte

Mercury

Analyte

Mercury

Client Sample ID: 0113-SB1-2051ST-SO							Lab	Sample ID: 280-	
Date Collected: 01/06/13 09:30									ix: Solid
Date Received: 01/08/13 09:00	D 14	0	D.	MDI	1114	D	D	Percent Soli	
Analyte		Qualifier	RL -		Unit	— ¤	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.017	0.0055	mg/Kg	745	01/08/13 13:25	01/08/13 15:10	1
Client Sample ID: 0113-SB2-2051ST-SO							Lab	Sample ID: 280-	37602-2
Date Collected: 01/06/13 10:25								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.016	0.0051	mg/Kg	\$	01/08/13 13:25	01/08/13 15:17	1
Client Sample ID: 0113-SB3-2051ST-SO							Lab S	Sample ID: 280-	37602-3
Date Collected: 01/06/13 11:20									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.094		0.021	0.0070	mg/Kg	<u></u>	01/08/13 13:25	01/08/13 15:24	1
Client Sample ID: 0113-SB4-2051ST-SO							l ab (Sample ID: 200	27602 4
Date Collected: 01/06/13 12:15							Lab	Sample ID: 280	
									ix: Solid
Date Received: 01/08/13 09:00 Analyte	Pocult	Qualifier	RL	MDI	Unit	D	Prepared	Percent Soli Analyzed	Dil Fac
Mercury	0.025	- Qualifier	0.020	0.0065		— ¤	01/08/13 13:25	01/08/13 15:26	1
- Wercury	0.023		0.020	0.0000	mg/rtg		01/00/10 10:20	01/00/10 10:20	
Client Sample ID: 0113-SB3-5CEN-SO							Lab S	Sample ID: 280-	37602-5
Date Collected: 01/06/13 15:35								Matr	ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	ds: 92.2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.023	0.0073	mg/Kg	*	01/08/13 13:25	01/08/13 15:28	1
Client Sample ID: 0113-SB4-5CEN-SO							Lab S	Sample ID: 280-	37602-6
Date Collected: 01/06/13 16:10									ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.0062	mg/Kg	<u> </u>	01/08/13 13:25	01/08/13 15:31	1
Client Sample ID: 0113-SB6-5CEN-SO							Lah 9	Sample ID: 280-	.37602-7
Date Collected: 01/06/13 16:50							Lab		ix: Solid
Date Received: 01/08/13 09:00								Percent Soli	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.021	0.0070		<u>→</u>	01/08/13 13:25	01/08/13 15:33	1
_									
Client Sample ID: 0113-SB5-5CEN-SO							Lab	Sample ID: 280-	37602-8
D / O !! / ! O / !! O / ! O F									

Matrix: Solid

Matrix: Solid

Dil Fac

Percent Solids: 93.9

Percent Solids: 94.7

Analyzed

Lab Sample ID: 280-37602-9

Analyzed

01/08/13 15:42

Prepared

Prepared

01/08/13 13:25

01/08/13 13:25 01/08/13 15:35

D

RL

RL

0.018

MDL Unit

0.0058 mg/Kg

MDL Unit

0.0059 mg/Kg

Result Qualifier

Result Qualifier

0.023

0.028

Client: CDM Smith, Inc. TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 7471A - Mercury (CVAA)

Client Sample ID: 0113-SB5-2051ST-SO Lab Sample ID: 280-37602-10

Date Collected: 01/06/13 13:30

Percent Solids: 93.6 Date Received: 01/08/13 09:00 Analyte Result Qualifier RLMDL Unit D Analyzed Dil Fac Prepared ₩ 01/08/13 13:25 Mercury 0.031 0.018 0.0057 mg/Kg 01/08/13 15:45

Client Sample ID: 0113-SB1-5CEN-SO Lab Sample ID: 280-37602-11

Date Collected: 01/06/13 14:15 **Matrix: Solid** Date Received: 01/08/13 09:00 Percent Solids: 94.4

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed ₩ 0.017 01/08/13 13:25 0.0054 mg/Kg 01/08/13 15:47 Mercury 0.020

Client Sample ID: 0113-SB2-5CEN-SO Lab Sample ID: 280-37602-12

Date Collected: 01/06/13 14:50

Matrix: Solid Date Received: 01/08/13 09:00 Percent Solids: 93.6 Analyte Result Qualifier MDL Unit Analyzed 0.016 0.0053 mg/Kg 01/08/13 13:25 01/08/13 15:49 0.022 Mercury

Matrix: Solid

Client: CDM Smith, Inc.

TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

General	Chemistry
---------	-----------

Client Sample ID: 0113-SB1-2051ST-SO	Lab Sample ID: 280-37602-1
Date Collected: 01/06/13 09:30	Matrix: Solid
Date Received: 01/08/13 09:00	

 Analyte
 Result Qualifier
 RL O.10
 RL O.10
 Unit O.10
 D Prepared O.10
 Analyzed O.10/08/13 11:33
 Dil Factoria

Client Sample ID: 0113-SB2-2051ST-SO

Date Collected: 01/06/13 10:25

Lab Sample ID: 280-37602-2

Matrix: Solid

Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Qualifier
 RL
 RL
 RL Unit
 D Prepared
 Analyzed Analyzed
 Dil Fac

 0.10
 0.10
 %
 0.108/13 11:33
 1

Client Sample ID: 0113-SB3-2051ST-SO

Date Collected: 01/06/13 11:20

Lab Sample ID: 280-37602-3

Matrix: Solid

Date Collected: 01/06/13 11:20 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Qualifier
 RL O.10
 RL O.10
 Unit O.10
 D Prepared O.10/08/13 11:33
 Analyzed O.10/08/13 11:33
 Dil Factoria

Client Sample ID: 0113-SB4-2051ST-SO

Lab Sample ID: 280-37602-4

Date Collected: 01/06/13 12:15

Matrix: Solid

Date Received: 01/08/13 09:00

Client Sample ID: 0113-SB3-5CEN-SO Lab Sample ID: 280-37602-5

Date Collected: 01/06/13 15:35 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Qualifier
 RL O.10
 RL O.10
 Unit W
 D Wrepared Discovery
 Analyzed Oil Prepared Oi

Client Sample ID: 0113-SB4-5CEN-SO

Lab Sample ID: 280-37602-6

Date Collected: 01/06/13 16:10 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Result Result Result Percent Moisture
 Qualifier RL O.10
 RL O.10
 RL O.10
 Unit W
 D O.10
 Prepared Prepared O.10/08/13 11:33
 Dil Factoria

Client Sample ID: 0113-SB6-5CEN-SO Lab Sample ID: 280-37602-7

Date Collected: 01/06/13 16:50 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Result Result Qualifier
 RL RL Unit Result R

Client Sample ID: 0113-SB5-5CEN-SO

Lab Sample ID: 280-37602-8

Date Collected: 01/06/13 17:35

Matrix: Solid

Date Collected: 01/06/13 17:35 Date Received: 01/08/13 09:00

 Analyte
 Result Percent Moisture
 Result Qualifier
 RL
 RL
 RL Unit
 D
 Prepared
 Analyzed
 Dil Fac

 0.10
 0.10
 %
 01/08/13 11:33
 1

Client Sample ID: 0113-SB6-2051ST-SO

Date Collected: 01/06/13 12:55

Lab Sample ID: 280-37602-9

Matrix: Solid

Date Received: 01/08/13 09:00

 Analyte
 Result
 Qualifier
 RL
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Percent Moisture
 5.3
 0.10
 0.10
 %
 01/08/13 11:33
 1

TestAmerica Denver

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: CDM Smith, Inc. TestAmerica Job ID: 280-37602-1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

General Chemistry

Client Sample ID: 0113-SB5-2051ST-SO Lab Sample ID: 280-37602-10

Date Collected: 01/06/13 13:30

Client Sample ID: 0113-SB1-5CEN-SO

Date Received: 01/08/13 09:00

Analyte Result Qualifier RLRL Unit D Prepared Analyzed Dil Fac Percent Moisture 0.10 0.10 % 01/08/13 11:33 6.4

Date Collected: 01/06/13 14:15

Date Received: 01/08/13 09:00 Analyte Result Qualifier RL RL Unit D Dil Fac Prepared Analyzed 0.10 0.10 % 01/08/13 11:33 **Percent Moisture** 5.6

Client Sample ID: 0113-SB2-5CEN-SO Lab Sample ID: 280-37602-12

Date Collected: 01/06/13 14:50

Date Received: 01/08/13 09:00

Analyte Result Qualifier RL RL Unit Prepared Analyzed Dil Fac

0.10 0.10 % 01/08/13 11:33 Percent Moisture 6.4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 280-37602-11

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client: CDM Smith, Inc.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: Total/NA

				Percent Sur	rrogate Reco
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(76-127)	(75-121)	(58-140)	(80-126)
280-37602-1	0113-SB1-2051ST-SO	102	93	86	102
280-37602-2	0113-SB2-2051ST-SO	105	83	87	102
280-37602-3	0113-SB3-2051ST-SO	110	96	89	106
280-37602-4	0113-SB4-2051ST-SO	113	95	86	103
280-37602-5	0113-SB3-5CEN-SO	102	94	88	100
280-37602-6	0113-SB4-5CEN-SO	101	95	87	101
280-37602-7	0113-SB6-5CEN-SO	103	94	87	101
280-37602-8	0113-SB5-5CEN-SO	107	95	88	104
280-37602-9	0113-SB6-2051ST-SO	104	96	89	103
280-37602-10	0113-SB5-2051ST-SO	104	95	90	101
280-37602-11	0113-SB1-5CEN-SO	92	93	84	100
280-37602-12	0113-SB2-5CEN-SO	97	97	88	101
LCS 280-154981/3-A	Lab Control Sample	104	96	96	100
LCS 280-154985/3-A	Lab Control Sample	103	96	92	99
LCSD 280-154981/4-A	Lab Control Sample Dup	106	97	97	100
LCSD 280-154985/4-A	Lab Control Sample Dup	104	102	102	103
MB 280-154981/1-A	Method Blank	100	94	87	101
MB 280-154985/1-A	Method Blank	102	96	89	101

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: Total/NA

				Percent Surr	rogate Red
		FBP	NBZ	TPH	
Lab Sample ID	Client Sample ID	(50-120)	(50-120)	(55-120)	
280-37602-1	0113-SB1-2051ST-SO	86 D	76 D	89 D	
280-37602-2	0113-SB2-2051ST-SO	83 D	74 D	88 D	
280-37602-3	0113-SB3-2051ST-SO	78 D	71 D	89 D	
280-37602-4	0113-SB4-2051ST-SO	85 D	78 D	92 D	
280-37602-5	0113-SB3-5CEN-SO	71	77	82	
280-37602-5 MS	0113-SB3-5CEN-SO	73	76	81	
280-37602-5 MSD	0113-SB3-5CEN-SO	71	72	82	
280-37602-6	0113-SB4-5CEN-SO	68	73	84	
280-37602-7	0113-SB6-5CEN-SO	76	77	85	
280-37602-8	0113-SB5-5CEN-SO	75	79	85	
280-37602-9	0113-SB6-2051ST-SO	90 D	91 D	91 D	
280-37602-10	0113-SB5-2051ST-SO	74	76	84	
280-37602-11	0113-SB1-5CEN-SO	76	77	84	
280-37602-12	0113-SB2-5CEN-SO	75	84	84	
LCS 280-154984/2-A	Lab Control Sample	77	81	87	
MB 280-154984/1-A	Method Blank	76	80	77	

Surrogate Legend

FBP = 2-Fluorobiphenyl

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

,

NBZ = Nitrobenzene-d5 TPH = Terphenyl-d14

Client: CDM Smith, Inc.

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limit
		TFT1	
Lab Sample ID	Client Sample ID	(77-123)	
280-37602-1	0113-SB1-2051ST-SO	108	
280-37602-2	0113-SB2-2051ST-SO	106	
280-37602-2 MS	0113-SB2-2051ST-SO	107	
280-37602-2 MSD	0113-SB2-2051ST-SO	108	
280-37602-3	0113-SB3-2051ST-SO	102	
280-37602-4	0113-SB4-2051ST-SO	106	
280-37602-5	0113-SB3-5CEN-SO	107	
280-37602-6	0113-SB4-5CEN-SO	106	
280-37602-7	0113-SB6-5CEN-SO	108	
280-37602-8	0113-SB5-5CEN-SO	107	
280-37602-9	0113-SB6-2051ST-SO	106	
280-37602-10	0113-SB5-2051ST-SO	106	
280-37602-11	0113-SB1-5CEN-SO	103	
280-37602-12	0113-SB2-5CEN-SO	105	
_CS 280-154982/1-A	Lab Control Sample	105	
_CSD 280-154982/2-A	Lab Control Sample Dup	116	
MB 280-154982/3-A	Method Blank	114	

TFT = a,a,a-Trifluorotoluene

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		OTPH1	
Lab Sample ID	Client Sample ID	(49-115)	
280-37602-1	0113-SB1-2051ST-SO	83	
280-37602-1 MS	0113-SB1-2051ST-SO	86	
280-37602-1 MSD	0113-SB1-2051ST-SO	93	
280-37602-2	0113-SB2-2051ST-SO	86	
280-37602-3	0113-SB3-2051ST-SO	92	
280-37602-4	0113-SB4-2051ST-SO	80	
280-37602-5	0113-SB3-5CEN-SO	71	
280-37602-6	0113-SB4-5CEN-SO	75	
280-37602-7	0113-SB6-5CEN-SO	61	
280-37602-8	0113-SB5-5CEN-SO	76	
280-37602-9	0113-SB6-2051ST-SO	62	
280-37602-10	0113-SB5-2051ST-SO	77	
280-37602-11	0113-SB1-5CEN-SO	71	
280-37602-12	0113-SB2-5CEN-SO	70	
LCS 280-154977/2-A	Lab Control Sample	73	
MB 280-154977/1-A	Method Blank	77	
Surrogate Legend			
OTPH = o-Terphenyl			

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-154981/1-A

Matrix: Solid

Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 155009	MB MB						Prep Batch:	
Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND ND		5.3	ug/Kg		01/08/13 11:07	01/08/13 14:26	
Benzene	ND	4.9	0.47	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Bromoform	ND	4.9	0.23	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Bromomethane	ND	9.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	,
2-Butanone (MEK)	ND	20		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Carbon disulfide	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
Carbon tetrachloride	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
Chlorobenzene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
Chlorobromomethane	ND	4.9	0.30	ug/Kg		01/08/13 11:07	01/08/13 14:26	
Chlorodibromomethane	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
Chloroethane	ND	9.9	0.88	ug/Kg		01/08/13 11:07	01/08/13 14:26	
Chloroform	ND	9.9	0.29	ug/Kg		01/08/13 11:07	01/08/13 14:26	
Chloromethane	ND	9.9	0.76	ug/Kg		01/08/13 11:07	01/08/13 14:26	,
cis-1,2-Dichloroethene	ND	2.5	0.55	ug/Kg		01/08/13 11:07	01/08/13 14:26	
cis-1,3-Dichloropropene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
Cyclohexane	ND	4.9	0.40	ug/Kg		01/08/13 11:07	01/08/13 14:26	,
1,2-Dibromo-3-Chloropropane	ND	9.9	0.59	ug/Kg		01/08/13 11:07	01/08/13 14:26	
1,2-Dibromoethane	ND	4.9	0.51	ug/Kg		01/08/13 11:07	01/08/13 14:26	
1,2-Dichlorobenzene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	,
1,3-Dichlorobenzene	ND	4.9	0.48	ug/Kg ug/Kg		01/08/13 11:07	01/08/13 14:26	,
1.4-Dichlorobenzene	ND	4.9		ug/Kg ug/Kg		01/08/13 11:07	01/08/13 14:26	,
Dichlorobromomethane				ug/Kg ug/Kg		01/08/13 11:07	01/08/13 14:26	
Dichlorodifluoromethane	ND ND	4.9 9.9				01/08/13 11:07		1
	ND ND		0.51	ug/Kg			01/08/13 14:26	1
1,1-Dichloroethane		4.9	0.21	ug/Kg		01/08/13 11:07	01/08/13 14:26	
1,2-Dichloroethane	ND ND	4.9	0.69	ug/Kg		01/08/13 11:07	01/08/13 14:26	,
1,1-Dichloroethene		4.9	0.58	ug/Kg		01/08/13 11:07	01/08/13 14:26	,
1,2-Dichloropropane	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
1,4-Dioxane	ND	490		ug/Kg		01/08/13 11:07	01/08/13 14:26	,
Ethylbenzene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
2-Hexanone	ND	20		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Isopropylbenzene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Methyl acetate	ND	9.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	ĺ
Methylcyclohexane	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
Methylene Chloride	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	1
4-Methyl-2-pentanone (MIBK)	ND	20		ug/Kg		01/08/13 11:07	01/08/13 14:26	•
Methyl tert-butyl ether	ND	20		ug/Kg		01/08/13 11:07	01/08/13 14:26	
m-Xylene & p-Xylene	ND	2.5		ug/Kg		01/08/13 11:07	01/08/13 14:26	•
o-Xylene	ND	2.5	0.60	ug/Kg		01/08/13 11:07	01/08/13 14:26	,
Styrene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
1,1,2,2-Tetrachloroethane	ND	4.9	0.60	ug/Kg		01/08/13 11:07	01/08/13 14:26	,
Tetrachloroethene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	,
Toluene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
trans-1,2-Dichloroethene	ND	2.5		ug/Kg		01/08/13 11:07	01/08/13 14:26	•
trans-1,3-Dichloropropene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	•
1,2,3-Trichlorobenzene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	
1,2,4-Trichlorobenzene	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	,
1,1,1-Trichloroethane	ND	4.9		ug/Kg		01/08/13 11:07	01/08/13 14:26	•
1,1,2-Trichloroethane	ND	4.9	0.87	ug/Kg		01/08/13 11:07	01/08/13 14:26	•

Client: CDM Smith, Inc.

Analysis Batch: 155009

Matrix: Solid

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Lab Sample ID: MB 280-154981/1-A

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

TestAmerica Job ID: 280-37602-1

Client Sample ID: Method Blank

Prep Batch: 154981

Prep Type: Total/NA

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		4.9	0.23	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Trichlorofluoromethane	ND		9.9	1.0	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
1,1,2-Trichlorotrifluoroethane	ND		20	0.45	ug/Kg		01/08/13 11:07	01/08/13 14:26	1
Vinyl chloride	ND		4.9	1.3	ug/Kg		01/08/13 11:07	01/08/13 14:26	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 01/08/13 11:07 01/08/13 14:26 4-Bromofluorobenzene (Surr) 100 76 - 127 94 01/08/13 11:07 01/08/13 14:26 Dibromofluoromethane (Surr) 75 - 121 1,2-Dichloroethane-d4 (Surr) 87 01/08/13 11:07 01/08/13 14:26 58 - 140 Toluene-d8 (Surr) 101 80 - 126 01/08/13 11:07 01/08/13 14:26

Lab Sample ID: LCS 280-154981/3-A

Matrix: Solid

Analysis Batch: 155009

4-Methyl-2-pentanone (MIBK)

Methyl tert-butyl ether

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA
	Prep Batch: 154981

LCS LCS Spike %Rec. Added Qualifier Unit %Rec Analyte Result Limits Acetone 200 217 ug/Kg 108 65 - 150 Benzene 50.0 46.9 ug/Kg 94 75 - 135 Bromoform 50.0 49.3 ug/Kg 99 77 - 135 Bromomethane 50.0 47.6 95 52 - 135 ug/Kg 2-Butanone (MEK) 200 219 ug/Kg 110 45 - 177 Carbon disulfide 50.0 75 37.4 ug/Kg 45 - 150 Carbon tetrachloride 50.0 51.9 104 69 - 138 ug/Kg 78 - 135 Chlorobenzene 50.0 48.1 96 ug/Kg Chlorobromomethane 50.0 48.8 ug/Kg 98 74 - 135 Chlorodibromomethane 50.0 52.0 ug/Kg 104 77 - 135 Chloroethane 50.0 47.8 ug/Kg 96 51 - 145 Chloroform 50.0 49.3 99 73 - 123 ug/Kg Chloromethane 50.0 50.1 ug/Kg 100 41 - 138 cis-1,2-Dichloroethene 50.0 48.1 96 76 - 135 ug/Kg cis-1,3-Dichloropropene 50.0 51.0 ug/Kg 102 71 - 13550.0 111 1,2-Dibromo-3-Chloropropane 55.6 ug/Kg 66 - 150 1.2-Dibromoethane 50.0 48.8 ug/Kg 98 76 - 135 1,2-Dichlorobenzene 50.0 49.4 ug/Kg 99 73 - 135 50.0 49.4 99 69 - 135 1,3-Dichlorobenzene ug/Kg 1,4-Dichlorobenzene 50.0 50.3 101 73 - 135 ug/Kg 102 Dichlorobromomethane 50.0 51.2 73 - 135 ug/Kg Dichlorodifluoromethane 50.0 39.8 80 32 - 152 ug/Kg 1.1-Dichloroethane 50.0 48.5 97 70 - 135 ug/Kg 1,2-Dichloroethane 50.0 49.1 ug/Kg 98 69 - 135 1,1-Dichloroethene 50.0 54.9 ug/Kg 110 79 - 135 1,2-Dichloropropane 50.0 47.6 ug/Kg 95 72 - 121 Ethylbenzene 50.0 48.7 ug/Kg 97 73 - 125 93 2-Hexanone 200 187 ug/Kg 67 - 150Isopropylbenzene 50.0 49.1 ug/Kg 98 74 - 137 Methylene Chloride 50.0 45.8 ug/Kg 92 76 - 136

TestAmerica Denver

195

50.9

ug/Kg

ug/Kg

97

102

69 - 150

71 - 141

200

50.0

10

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154981/3-A

Matrix: Solid

Analysis Batch: 155009

Client: CDM Smith, Inc.

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 154981

7 many one Battern 100000							1 Top Batom 10 100	
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m-Xylene & p-Xylene	100	97.4		ug/Kg		97	77 - 135	
o-Xylene	50.0	48.2		ug/Kg		96	75 ₋ 135	
Styrene	50.0	51.7		ug/Kg		103	76 _ 135	
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	65 - 135	
Tetrachloroethene	50.0	47.5		ug/Kg		95	76 _ 135	
Toluene	50.0	47.3		ug/Kg		95	77 - 122	
trans-1,2-Dichloroethene	50.0	49.2		ug/Kg		98	77 ₋ 135	
trans-1,3-Dichloropropene	50.0	51.3		ug/Kg		103	71 ₋ 135	
1,2,3-Trichlorobenzene	50.0	49.4		ug/Kg		99	62 - 135	
1,2,4-Trichlorobenzene	50.0	51.1		ug/Kg		102	65 _ 135	
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	70 - 135	
1,1,2-Trichloroethane	50.0	47.7		ug/Kg		95	78 ₋ 135	
Trichloroethene	50.0	47.7		ug/Kg		95	77 ₋ 135	
Trichlorofluoromethane	50.0	47.1		ug/Kg		94	48 - 150	
Vinyl chloride	50.0	48.6		ug/Kg		97	43 - 145	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		76 - 127
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	96		58 - 140
Toluene-d8 (Surr)	100		80 - 126

Lab Sample ID: LCSD 280-154981/4-A

Matrix: Solid

Analysis Batch: 155009

Client	Sample	ID:	Lab	Control	Sample	Dup

Prep Type: Total/NA **Prep Batch: 154981**

						i icp i	Datell. I	0 1 301
Spike	LCSD	LCSD				%Rec.		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
200	200		ug/Kg		100	65 - 150	8	28
50.0	49.5		ug/Kg		99	75 - 135	5	20
50.0	53.0		ug/Kg		106	77 - 135	7	20
50.0	50.6		ug/Kg		101	52 - 135	6	22
200	227		ug/Kg		113	45 - 177	3	32
50.0	42.8		ug/Kg		86	45 - 150	13	24
50.0	53.9		ug/Kg		108	69 - 138	4	20
50.0	50.3		ug/Kg		101	78 - 135	4	20
50.0	52.0		ug/Kg		104	74 - 135	6	21
50.0	55.4		ug/Kg		111	77 - 135	6	20
50.0	50.7		ug/Kg		101	51 - 145	6	22
50.0	51.8		ug/Kg		104	73 - 123	5	20
50.0	54.6		ug/Kg		109	41 - 138	8	25
50.0	50.7		ug/Kg		101	76 - 135	5	20
50.0	53.6		ug/Kg		107	71 - 135	5	20
50.0	59.2		ug/Kg		118	66 - 150	6	28
50.0	52.2		ug/Kg		104	76 - 135	7	20
50.0	52.1		ug/Kg		104	73 - 135	5	20
50.0	51.9		ug/Kg		104	69 - 135	5	20
50.0	52.5		ug/Kg		105	73 - 135	4	22
50.0	54.8		ug/Kg		110	73 - 135	7	20
	Added 200 50.0 50.0 50.0 50.0 50.0 50.0 50.0	Added Result 200 200 50.0 49.5 50.0 53.0 50.0 50.6 200 227 50.0 42.8 50.0 53.9 50.0 50.3 50.0 55.4 50.0 50.7 50.0 51.8 50.0 54.6 50.0 50.7 50.0 53.6 50.0 59.2 50.0 52.2 50.0 52.2 50.0 52.1 50.0 51.9 50.0 52.5	Added Result Qualifier 200 200 50.0 49.5 50.0 53.0 50.0 50.6 200 227 50.0 42.8 50.0 53.9 50.0 50.3 50.0 52.0 50.0 55.4 50.0 50.7 50.0 51.8 50.0 54.6 50.0 53.6 50.0 53.6 50.0 59.2 50.0 52.2 50.0 52.1 50.0 51.9 50.0 52.5	Added Result Qualifier Unit 200 200 ug/Kg 50.0 49.5 ug/Kg 50.0 53.0 ug/Kg 50.0 50.6 ug/Kg 200 227 ug/Kg 50.0 42.8 ug/Kg 50.0 53.9 ug/Kg 50.0 50.3 ug/Kg 50.0 52.0 ug/Kg 50.0 55.4 ug/Kg 50.0 50.7 ug/Kg 50.0 54.6 ug/Kg 50.0 50.7 ug/Kg 50.0 53.6 ug/Kg 50.0 52.2 ug/Kg 50.0 52.2 ug/Kg 50.0 52.1 ug/Kg 50.0 52.1 ug/Kg 50.0 52.5 ug/Kg	Added Result Qualifier Unit D 200 200 ug/Kg ug/Kg 50.0 49.5 ug/Kg ug/Kg 50.0 53.0 ug/Kg ug/Kg 50.0 50.6 ug/Kg ug/Kg 50.0 42.8 ug/Kg ug/Kg 50.0 53.9 ug/Kg ug/Kg 50.0 50.3 ug/Kg ug/Kg 50.0 55.4 ug/Kg ug/Kg 50.0 50.7 ug/Kg ug/Kg 50.0 54.6 ug/Kg ug/Kg 50.0 53.6 ug/Kg ug/Kg 50.0 59.2 ug/Kg ug/Kg 50.0 52.2 ug/Kg ug/Kg 50.0 52.1 ug/Kg 50.0 52.5 ug/Kg	Added Result Qualifier Unit D %Rec 200 200 ug/Kg 100 50.0 49.5 ug/Kg 99 50.0 53.0 ug/Kg 106 50.0 50.6 ug/Kg 101 200 227 ug/Kg 113 50.0 42.8 ug/Kg 86 50.0 53.9 ug/Kg 108 50.0 50.3 ug/Kg 101 50.0 52.0 ug/Kg 104 50.0 55.4 ug/Kg 101 50.0 55.4 ug/Kg 101 50.0 50.7 ug/Kg 104 50.0 51.8 ug/Kg 109 50.0 50.7 ug/Kg 101 50.0 53.6 ug/Kg 107 50.0 59.2 ug/Kg 107 50.0 52.2 ug/Kg 104 50.0 52.1 ug/Kg	Spike LCSD LCSD WRec. Limits 200 200 ug/Kg 100 65 - 150 50.0 49.5 ug/Kg 99 75 - 135 50.0 53.0 ug/Kg 106 77 - 135 50.0 50.6 ug/Kg 101 52 - 135 200 227 ug/Kg 113 45 - 177 50.0 42.8 ug/Kg 86 45 - 150 50.0 53.9 ug/Kg 108 69 - 138 50.0 50.3 ug/Kg 101 78 - 135 50.0 50.3 ug/Kg 101 78 - 135 50.0 55.4 ug/Kg 104 74 - 135 50.0 55.4 ug/Kg 101 77 - 135 50.0 50.7 ug/Kg 101 51 - 145 50.0 51.8 ug/Kg 104 73 - 123 50.0 53.6 ug/Kg 107 71 - 135 50.0 59.2	Added Result Qualifier Unit D %Rec Limits RPD 200 200 ug/Kg 100 65 - 150 8 50.0 49.5 ug/Kg 99 75 - 135 5 50.0 53.0 ug/Kg 106 77 - 135 7 50.0 50.6 ug/Kg 101 52 - 135 6 200 227 ug/Kg 113 45 - 177 3 50.0 42.8 ug/Kg 86 45 - 150 13 50.0 53.9 ug/Kg 108 69 - 138 4 50.0 50.3 ug/Kg 101 78 - 135 4 50.0 52.0 ug/Kg 101 78 - 135 4 50.0 55.4 ug/Kg 101 77 - 135 6 50.0 50.7 ug/Kg 101 51 - 145 6 50.0 54.6 ug/Kg 104 73 - 123 5 50.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-154981/4-A

Matrix: Solid

Analysis Batch: 155009

Client: CDM Smith, Inc.

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 154981**

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Dichlorodifluoromethane	50.0	42.0		ug/Kg		84	32 - 152	6	28
1,1-Dichloroethane	50.0	51.0		ug/Kg		102	70 - 135	5	20
1,2-Dichloroethane	50.0	52.5		ug/Kg		105	69 - 135	7	20
1,1-Dichloroethene	50.0	58.3		ug/Kg		117	79 - 135	6	20
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	72 - 121	6	20
Ethylbenzene	50.0	51.1		ug/Kg		102	73 - 125	5	20
2-Hexanone	200	185		ug/Kg		92	67 - 150	1	29
Isopropylbenzene	50.0	51.7		ug/Kg		103	74 - 137	5	20
Methylene Chloride	50.0	48.5		ug/Kg		97	76 - 136	6	21
4-Methyl-2-pentanone (MIBK)	200	200		ug/Kg		100	69 - 150	3	25
Methyl tert-butyl ether	50.0	52.4		ug/Kg		105	71 - 141	3	20
m-Xylene & p-Xylene	100	102		ug/Kg		102	77 - 135	5	20
o-Xylene	50.0	51.0		ug/Kg		102	75 - 135	6	20
Styrene	50.0	54.0		ug/Kg		108	76 - 135	4	20
1,1,2,2-Tetrachloroethane	50.0	54.8		ug/Kg		110	65 - 135	7	21
Tetrachloroethene	50.0	49.8		ug/Kg		100	76 - 135	5	20
Toluene	50.0	49.4		ug/Kg		99	77 - 122	4	20
trans-1,2-Dichloroethene	50.0	51.3		ug/Kg		103	77 - 135	4	20
trans-1,3-Dichloropropene	50.0	53.3		ug/Kg		107	71 - 135	4	20
1,2,3-Trichlorobenzene	50.0	51.7		ug/Kg		103	62 - 135	5	31
1,2,4-Trichlorobenzene	50.0	53.1		ug/Kg		106	65 - 135	4	26
1,1,1-Trichloroethane	50.0	52.8		ug/Kg		106	70 - 135	4	20
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	78 - 135	5	20
Trichloroethene	50.0	49.9		ug/Kg		100	77 - 135	5	20
Trichlorofluoromethane	50.0	51.1		ug/Kg		102	48 - 150	8	33
Vinyl chloride	50.0	52.9		ug/Kg		106	43 - 145	8	24

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	97		75 - 121
1,2-Dichloroethane-d4 (Surr)	97		58 - 140
Toluene-d8 (Surr)	100		80 - 126

Lab Sample ID: MB 280-154985/1-A

Matrix: Solid

Analysis Batch: 155051

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 154985**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	5.4	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Benzene	ND		5.0	0.47	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Bromoform	ND		5.0	0.23	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Bromomethane	ND		10	0.50	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
2-Butanone (MEK)	ND		20	1.8	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Carbon disulfide	ND		5.0	0.42	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Carbon tetrachloride	ND		5.0	0.63	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chlorobenzene	ND		5.0	0.54	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chlorobromomethane	ND		5.0	0.30	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chlorodibromomethane	ND		5.0	0.57	ug/Kg		01/08/13 11:26	01/08/13 19:38	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-154985/1-A

Matrix: Solid

Surrogate

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

1,2-Dichloroethane-d4 (Surr)

Toluene-d8 (Surr)

Analysis Batch: 155051

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 154985

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		10	0.89	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chloroform	ND		10	0.29	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Chloromethane	ND		10	0.77	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
cis-1,2-Dichloroethene	ND		2.5	0.56	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
cis-1,3-Dichloropropene	ND		5.0	1.3	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Cyclohexane	ND		5.0	0.40	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dibromo-3-Chloropropane	ND		10	0.60	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dibromoethane	ND		5.0	0.52	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dichlorobenzene	ND		5.0	0.45	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,3-Dichlorobenzene	ND		5.0	0.48	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Dichlorobromomethane	ND		5.0	0.22	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Dichlorodifluoromethane	ND		10	0.52	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1-Dichloroethane	ND		5.0	0.21	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dichloroethane	ND		5.0	0.70	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1-Dichloroethene	ND		5.0	0.59	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2-Dichloropropane	ND		5.0	0.55	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,4-Dioxane	ND		500	56	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Ethylbenzene	ND		5.0	0.67	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
2-Hexanone	ND		20	4.9	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Isopropylbenzene	ND		5.0	0.59	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Methyl acetate	ND		10	2.7	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Methylcyclohexane	ND		5.0	0.42	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Methylene Chloride	ND		5.0	1.6	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
4-Methyl-2-pentanone (MIBK)	ND		20	4.3	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Methyl tert-butyl ether	ND		20	0.34	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
m-Xylene & p-Xylene	ND		2.5	1.0	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
o-Xylene	ND		2.5	0.61	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Styrene	ND		5.0	0.63	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.61	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Tetrachloroethene	ND		5.0	0.59	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Toluene	ND		5.0	0.69	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
trans-1,2-Dichloroethene	ND		2.5	0.39	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Trichloroethene	ND		5.0		ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Trichlorofluoromethane	ND		10		ug/Kg		01/08/13 11:26	01/08/13 19:38	1
1,1,2-Trichlorotrifluoroethane	ND		20		ug/Kg		01/08/13 11:26	01/08/13 19:38	1
Vinyl chloride	ND		5.0		ug/Kg		01/08/13 11:26	01/08/13 19:38	· · · · · · · 1
	МВ				3 3				

TestAmerica Denver

Analyzed

01/08/13 19:38

01/08/13 19:38

01/08/13 19:38

01/08/13 19:38

Prepared

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

01/08/13 11:26

Dil Fac

Limits

76 - 127

75 - 121

58 - 140

80 - 126

%Recovery

102

96

89

101

Qualifier

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154985/3-A

Matrix: Solid

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154985

Analysis Batch: 155051	Snika	1.00	LCS				ЯRec.	tch: 15498
Analyte	Spike Added		Qualifier	Unit	D	%Rec	MRec.	
Acetone		226	Qualifier	ug/Kg		113	65 ₋ 150	
Benzene	50.0	46.9		ug/Kg ug/Kg		94	75 - 135	
Bromoform	50.0	49.3		ug/Kg ug/Kg		99	77 ₋ 135	
Bromomethane	50.0	50.9		ug/Kg ug/Kg		102	52 ₋ 135	
	200	229				114	45 - 177	
2-Butanone (MEK) Carbon disulfide	50.0	43.0		ug/Kg		86	45 - 177 45 - 150	
				ug/Kg				
Carbon tetrachloride Chlorobenzene	50.0 50.0	51.6 48.7		ug/Kg ug/Kg		103 97	69 - 138 78 - 135	
Chlorodinaryouthane	50.0	50.1		ug/Kg		100	74 - 135	
Chlorodibromomethane	50.0	51.8		ug/Kg		104	77 - 135	
Chlorofton	50.0	52.6		ug/Kg		105	51 ₋ 145	
Chloroform	50.0	48.5		ug/Kg		97	73 - 123	
Chloromethane	50.0	52.6		ug/Kg		105	41 - 138	
cis-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	76 - 135	
cis-1,3-Dichloropropene	50.0	50.0		ug/Kg		100	71 - 135	
1,2-Dibromo-3-Chloropropane	50.0	53.8		ug/Kg		108	66 - 150	
1,2-Dibromoethane	50.0	49.0		ug/Kg		98	76 - 135	
1,2-Dichlorobenzene	50.0	48.4		ug/Kg		97	73 _ 135	
1,3-Dichlorobenzene	50.0	48.5		ug/Kg		97	69 - 135	
1,4-Dichlorobenzene	50.0	49.1		ug/Kg		98	73 - 135	
Dichlorobromomethane	50.0	50.1		ug/Kg		100	73 _ 135	
Dichlorodifluoromethane	50.0	43.6		ug/Kg		87	32 - 152	
1,1-Dichloroethane	50.0	47.7		ug/Kg		95	70 - 135	
1,2-Dichloroethane	50.0	47.2		ug/Kg		94	69 - 135	
1,1-Dichloroethene	50.0	55.3		ug/Kg		111	79 ₋ 135	
1,2-Dichloropropane	50.0	46.5		ug/Kg		93	72 - 121	
Ethylbenzene	50.0	49.5		ug/Kg		99	73 _ 125	
2-Hexanone	200	194		ug/Kg		97	67 ₋ 150	
Isopropylbenzene	50.0	48.3		ug/Kg		97	74 - 137	
Methylene Chloride	50.0	45.8		ug/Kg		92	76 - 136	
4-Methyl-2-pentanone (MIBK)	200	202		ug/Kg		101	69 - 150	
Methyl tert-butyl ether	50.0	50.1		ug/Kg		100	71 - 141	
m-Xylene & p-Xylene	100	98.6		ug/Kg		99	77 - 135	
o-Xylene	50.0	49.1		ug/Kg		98	75 ₋ 135	
Styrene	50.0	51.8		ug/Kg		104	76 - 135	
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	65 - 135	
Tetrachloroethene	50.0	49.8		ug/Kg		100	76 - 135	
Toluene	50.0	47.6		ug/Kg		95	77 - 122	
trans-1,2-Dichloroethene	50.0	50.1		ug/Kg		100	77 ₋ 135	
trans-1,3-Dichloropropene	50.0	51.5		ug/Kg		103	71 ₋ 135	
1,2,3-Trichlorobenzene	50.0	49.4		ug/Kg		99	62 - 135	
1,2,4-Trichlorobenzene	50.0	50.9		ug/Kg		102	65 - 135	
1,1,1-Trichloroethane	50.0	50.7		ug/Kg		101	70 - 135	
1,1,2-Trichloroethane	50.0	46.7		ug/Kg		93	78 - 135	
Trichloroethene	50.0	48.2		ug/Kg		96	77 - 135	
Trichlorofluoromethane	50.0	52.8		ug/Kg		106	48 - 150	
Vinyl chloride	50.0	52.3		ug/Kg		105	43 - 145	

TestAmerica Denver

2

А

7

9

10

12

13

14

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154985/3-A

Lab Sample ID: LCSD 280-154985/4-A

Matrix: Solid

Matrix: Solid

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1.1-Dichloroethane

1,2-Dichloroethane

1,1-Dichloroethene

1,2-Dichloropropane

Ethylbenzene

2-Hexanone

o-Xylene

Styrene

Toluene

Isopropylbenzene

Methylene Chloride

Methyl tert-butyl ether

m-Xylene & p-Xylene

Tetrachloroethene

1.1.2.2-Tetrachloroethane

4-Methyl-2-pentanone (MIBK)

Dichlorobromomethane

Dichlorodifluoromethane

Analysis Batch: 155051

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 154985

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		76 - 127
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	92		58 ₋ 140
Toluene-d8 (Surr)	99		80 - 126

Client Sample ID: Lab Control Sample Dup

73 - 135

69 - 135

73 - 135

73 - 135

32 - 152

70 - 135

69 - 135

79 - 135

72 - 121

73 - 125

67 - 150

74 - 137

76 - 136

69 - 150

71 - 141

77 - 135

75 - 135

76 - 135

65 - 135

76 - 135

107

108

115

84

105

108

122

103

108

108

105

102

113

113

107

108

114

115

105

104

11

9

9

13

10

14

10

10

9

10

8

11

11

12

8

9

10

18

5

20

20

22

20

28

20

20

20

20

20

29

20

21

25

20

20

20

20

21

20

Prep Type: Total/NA

10

Prep Batch: 154985

Analysis Batch: 155051 LCSD LCSD Spike %Rec. **RPD** Added RPD Limit Analyte Result Qualifier Unit %Rec Limits 200 227 Acetone ug/Kg 113 65 _ 150 28 Benzene 50.0 51.4 ug/Kg 103 75 - 135 9 20 Bromoform 50.0 57.9 ug/Kg 116 77 - 135 20 16 Bromomethane 50.0 48.8 ug/Kg 98 52 - 135 4 22 200 2-Butanone (MEK) 258 ug/Kg 129 45 - 177 12 32 Carbon disulfide 50.0 40.7 ug/Kg 81 45 - 150 6 24 Carbon tetrachloride 50.0 57.5 115 69 - 138 11 20 ug/Kg Chlorobenzene 50.0 53.2 ug/Kg 106 78 - 135 9 20 Chlorobromomethane 50.0 55.7 ug/Kg 111 74 - 135 11 21 50.0 59 1 77 - 135 20 Chlorodibromomethane ug/Kg 118 13 Chloroethane 50.0 48.4 ug/Kg 97 51 - 145 8 22 Chloroform 50.0 108 73 - 123 20 53.8 ug/Kg 10 51.8 Chloromethane 50.0 104 41 - 138 2 25 ug/Kg 76 - 135 cis-1,2-Dichloroethene 50.0 106 53.2 ug/Kg 9 20 cis-1,3-Dichloropropene 50.0 55.4 ug/Kg 111 71 - 135 10 20 1,2-Dibromo-3-Chloropropane 50.0 68.0 ug/Kg 136 66 - 150 23 28 1,2-Dibromoethane 50.0 56.0 ug/Kg 112 76 - 135 13 20 1,2-Dichlorobenzene 50.0 54.0 108

50.0

50.0

50.0

50.0

50.0

50.0

50.0

50.0

50.0

200

50.0

50.0

200

50.0

100

50.0

50.0

50.0

50.0

50.0

53.3

53.9

57.3

41.8

52 5

54.1

61.2

51.4

54.1

215

52.4

51.1

227

56.6

107

53.9

57.1

57.5

52.4

51.9

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

ug/Kg

20 77 - 122

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-154985/4-A

Matrix: Solid

Analysis Batch: 155051

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 154985

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
trans-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	77 - 135	7	20
trans-1,3-Dichloropropene	50.0	57.3		ug/Kg		115	71 - 135	11	20
1,2,3-Trichlorobenzene	50.0	55.7		ug/Kg		111	62 - 135	12	31
1,2,4-Trichlorobenzene	50.0	56.2		ug/Kg		112	65 - 135	10	26
1,1,1-Trichloroethane	50.0	55.2		ug/Kg		110	70 - 135	9	20
1,1,2-Trichloroethane	50.0	53.8		ug/Kg		108	78 - 135	14	20
Trichloroethene	50.0	52.2		ug/Kg		104	77 - 135	8	20
Trichlorofluoromethane	50.0	50.9		ug/Kg		102	48 - 150	4	33
Vinyl chloride	50.0	50.3		ug/Kg		101	43 - 145	4	24
I and the second									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		76 - 127
Dibromofluoromethane (Surr)	102		75 - 121
1,2-Dichloroethane-d4 (Surr)	102		58 - 140
Toluene-d8 (Surr)	103		80 - 126

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-154984/1-A

Matrix: Solid

Analysis Batch: 155098

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 154984

Analysis Batch: 155098		МВ						Prep Batch:	154984
	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		330	10	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Acenaphthylene	ND		330	17	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Anthracene	ND		330	17	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[a]anthracene	ND		330	20	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[a]pyrene	ND		330	20	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[b]fluoranthene	ND		330	26	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[g,h,i]perylene	ND		330	16	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Benzo[k]fluoranthene	ND		330	40	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Chrysene	ND		330	27	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Dibenz(a,h)anthracene	ND		330	19	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Fluoranthene	ND		330	36	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Fluorene	ND		330	18	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Indeno[1,2,3-cd]pyrene	ND		330	22	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
1-Methylnaphthalene	ND		330	11	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
2-Methylnaphthalene	ND		330	19	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Naphthalene	ND		330	31	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Phenanthrene	ND		330	17	ug/Kg		01/08/13 14:30	01/09/13 09:58	1
Pyrene	ND		330	12	ug/Kg		01/08/13 14:30	01/09/13 09:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	76		50 - 120	01/08/13 14:30	01/09/13 09:58	1
Nitrobenzene-d5	80		50 - 120	01/08/13 14:30	01/09/13 09:58	1
Terphenyl-d14	77		55 - 120	01/08/13 14:30	01/09/13 09:58	1

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-154984/2-A

Matrix: Solid

Analysis Batch: 155098

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 154984

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthene	2670	2120		ug/Kg		79	60 - 120	
Acenaphthylene	2670	2230		ug/Kg		84	64 - 120	
Anthracene	2670	2290		ug/Kg		86	63 _ 120	
Benzo[a]anthracene	2670	2330		ug/Kg		87	65 _ 120	
Benzo[a]pyrene	2670	2110		ug/Kg		79	59 - 120	
Benzo[b]fluoranthene	2670	2420		ug/Kg		91	47 - 129	
Benzo[g,h,i]perylene	2670	2480		ug/Kg		93	55 - 126	
Benzo[k]fluoranthene	2670	2230		ug/Kg		84	48 - 130	
Chrysene	2670	2230		ug/Kg		84	64 - 120	
Dibenz(a,h)anthracene	2670	2470		ug/Kg		93	50 - 133	
Fluoranthene	2670	2390		ug/Kg		90	66 - 120	
Fluorene	2670	2190		ug/Kg		82	64 - 120	
Indeno[1,2,3-cd]pyrene	2670	2370		ug/Kg		89	63 _ 120	
1-Methylnaphthalene	2670	2110		ug/Kg		79	59 _ 120	
2-Methylnaphthalene	2670	2060		ug/Kg		77	57 - 120	
Naphthalene	2670	2100		ug/Kg		79	57 ₋ 120	
Phenanthrene	2670	2270		ug/Kg		85	64 - 120	
Pyrene	2670	2310		ug/Kg		87	64 - 120	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
2-Fluorobiphenyl	77	50 - 120
Nitrobenzene-d5	81	50 - 120
Terphenyl-d14	87	55 - 120

Lab Sample ID: 280-37602-5 MS

Matrix: Solid

Analysis Batch: 155098

Client Sample ID: 0113-SB3-5CEN-SO

Prep Type: Total/NA Prep Batch: 154984

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits ND 2770 2080 ₩ 75 60 - 120 Acenaphthene ug/Kg ₩ Acenaphthylene ND 2770 2200 ug/Kg 79 64 - 120 ₽ Anthracene ND 2770 2250 ug/Kg 81 63 - 120 ₩ ND 81 Benzo[a]anthracene 2770 2240 ug/Kg 65 - 120 ₽ Benzo[a]pyrene ND 2770 1970 ug/Kg 71 59 - 120 ₩ ND 2220 47 - 129 Benzo[b]fluoranthene 2770 ug/Kg 80 Benzo[g,h,i]perylene ND 2770 2240 ₽ 81 55 - 126 ug/Kg ND ₽ Benzo[k]fluoranthene 2770 1990 72 48 - 130 ug/Kg Ċ. ND 2770 2160 78 64 - 120 Chrysene ug/Kg 50 - 133 Dibenz(a,h)anthracene ND 2770 2320 83 ug/Kg Ö Fluoranthene ND 2770 2290 ug/Kg 83 66 - 120 ₩ ND 2160 78 Fluorene 2770 ug/Kg 64 - 120 ₩ Indeno[1,2,3-cd]pyrene ND 2770 2270 ug/Kg 82 63 - 120 1-Methylnaphthalene ND 2770 2060 ₽ 74 59 - 120 ug/Kg 2060 ₩ 2-Methylnaphthalene ND 2770 ug/Kg 74 57 - 120 ₩ Naphthalene ND 2770 2030 ug/Kg 73 57 - 120 ₩ Phenanthrene ND 2770 78 64 - 120 2170 ug/Kg ND 2770 ₽ Pyrene 2220 ug/Kg 80 64 - 120

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Me Me

Lab Sample ID: 280-37602-5 MS

Matrix: Solid

Analysis Batch: 155098

Client Sample ID: 0113-SB3-5CEN-SO

Prep Type: Total/NA

Prep Batch: 154984

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	73		50 - 120
Nitrobenzene-d5	76		50 - 120
Terphenyl-d14	81		55 ₋ 120

Lab Sample ID: 280-37602-5 MSD

Matrix: Solid

Analysis Batch: 155098

Client Sample ID: 0113-SB3-5CEN-SO

Prep Type: Total/NA

Prep Batch: 154984

Analysis Batch: 155096									Fiebi	saten: 1	34304
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	ND		2760	2050		ug/Kg	₩	74	60 - 120	2	30
Acenaphthylene	ND		2760	2130		ug/Kg	₩	77	64 - 120	4	30
Anthracene	ND		2760	2260		ug/Kg	₩	82	63 - 120	0	30
Benzo[a]anthracene	ND		2760	2230		ug/Kg	₩	81	65 - 120	0	30
Benzo[a]pyrene	ND		2760	1940		ug/Kg	₩	71	59 - 120	1	30
Benzo[b]fluoranthene	ND		2760	2200		ug/Kg	₩	80	47 - 129	1	44
Benzo[g,h,i]perylene	ND		2760	2230		ug/Kg	₩	81	55 - 126	0	31
Benzo[k]fluoranthene	ND		2760	1990		ug/Kg	₩	72	48 - 130	0	30
Chrysene	ND		2760	2170		ug/Kg	₩	79	64 - 120	0	35
Dibenz(a,h)anthracene	ND		2760	2280		ug/Kg	\$	83	50 - 133	2	30
Fluoranthene	ND		2760	2260		ug/Kg	₩	82	66 - 120	2	30
Fluorene	ND		2760	2140		ug/Kg	₩	77	64 - 120	1	30
Indeno[1,2,3-cd]pyrene	ND		2760	2300		ug/Kg	\$	84	63 - 120	1	30
1-Methylnaphthalene	ND		2760	1950		ug/Kg	₩	71	59 - 120	5	30
2-Methylnaphthalene	ND		2760	1900		ug/Kg	₩	69	57 - 120	8	30
Naphthalene	ND		2760	1830		ug/Kg	₩	66	57 - 120	11	30
Phenanthrene	ND		2760	2190		ug/Kg	₩	80	64 - 120	1	30
Pyrene	ND		2760	2240		ug/Kg	₽	81	64 _ 120	1	38

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	71		50 - 120
Nitrobenzene-d5	72		50 - 120
Terphenyl-d14	82		55 - 120

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

мв мв

ND

Result Qualifier

Lab Sample ID: MB 280-154982/3-A

Matrix: Solid

GRO (C6-C10)

Analyte

Analysis Batch: 155006

Client Sample ID: Method Blank Prep Type: Total/NA

Prepared

Prep Batch: 154982

Dil Fac Analyzed 01/08/13 11:07 01/08/13 14:20

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	114	77 - 123	01/08/13 11:07	01/08/13 14:20	1

RL

1.2

MDL Unit

0.33 mg/Kg

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 280-154982/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 155006

Client: CDM Smith, Inc.

Prep Type: Total/NA

Prep Batch: 154982

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec GRO (C6-C10) 5.50 5.64 103 85 - 153 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits a,a,a-Trifluorotoluene 105 77 - 123

Lab Sample ID: LCSD 280-154982/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 155006

Prep Type: Total/NA

10

Prep Batch: 154982

LCSD LCSD %Rec. RPD Spike Added Result Qualifier Unit %Rec Limits RPD Limit GRO (C6-C10) 5.50 6.40 mg/Kg 116 85 - 153 13

LCSD LCSD

Surrogate %Recovery Qualifier Limits 77 - 123 a,a,a-Trifluorotoluene 116

Lab Sample ID: 280-37602-2 MS Client Sample ID: 0113-SB2-2051ST-SO

Matrix: Solid

Analysis Batch: 155006

Prep Type: Total/NA

Prep Batch: 154982

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Limits Result Qualifier Unit D %Rec GRO (C6-C10) 0.60 J 5.90 6.45 99 85 - 153 mg/Kg

MS MS

%Recovery Qualifier Limits Surrogate

77 - 123 a,a,a-Trifluorotoluene 107

Lab Sample ID: 280-37602-2 MSD Client Sample ID: 0113-SB2-2051ST-SO

Matrix: Solid

Analysis Batch: 155006

Prep Type: Total/NA

Prep Batch: 154982

Sample Sample Spike MSD MSD RPD Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec GRO (C6-C10) 0.60 J 5.91 6.64 mg/Kg ₩ 102 85 _ 153 30

MSD MSD

Surrogate %Recovery Qualifier Limits a,a,a-Trifluorotoluene 108 77 - 123

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 280-154977/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 155205

Prep Type: Total/NA Prep Batch: 154977

мв мв Analyte RL MDL Unit Dil Fac Result Qualifier Prepared Analyzed DRO (C10-C28) ND 3.9 0.66 mg/Kg 01/08/13 12:20 01/09/13 10:01

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: MB 280-154977/1-A

Matrix: Solid

Analysis Batch: 155205

Client: CDM Smith, Inc.

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec.

Limits

53 - 115

%Rec

98

Prep Type: Total/NA

Prep Batch: 154977

Prep Type: Total/NA

Prep Batch: 154977

Prep Type: Total/NA

Prep Batch: 154977

Prep Type: Total/NA

Prep Batch: 154977

RPD

27

RPD

Limit

23

MR MR

Sample Sample

270

86

Sample Sample

Result Qualifier

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac o-Terphenyl 49 - 115 01/08/13 12:20 01/09/13 10:01

> Limits 49 - 115

> > Spike

Added

49 - 115

Spike

Added

68.0

69.3

LCS LCS

MS MS

MSD MSD

205 F

Result Qualifier

268 F

Result Qualifier

63.5

Result Qualifier

Unit

Unit

Unit

mg/Kg

mg/Kg

₩

D

%Rec

mg/Kg

Lab Sample ID: LCS 280-154977/2-A

Matrix: Solid

Analysis Batch: 155205

Spike Analyte Added DRO (C10-C28) 64.6

LCS LCS %Recovery Surrogate Qualifier o-Terphenyl 73

Client Sample ID: 0113-SB1-2051ST-SO

%Rec.

Limits

56 - 115

Client Sample ID: 0113-SB1-2051ST-SO

%Rec.

Limits

56 - 115

Matrix: Solid

DRO (C10-C28)

o-Terphenyl

Analysis Batch: 155205

Lab Sample ID: 280-37602-1 MS

MS MS Qualifier Limits Surrogate %Recovery

Lab Sample ID: 280-37602-1 MSD

Matrix: Solid

Analysis Batch: 155205

Analyte

Result Qualifier DRO (C10-C28) 270 MSD MSD

%Recovery Qualifier Limits Surrogate 49 - 115 o-Terphenyl 93

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-154986/1-A

Matrix: Solid

Analysis Batch: 155264

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 154986

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.66	mg/Kg		01/09/13 08:00	01/09/13 17:05	1
Barium	ND		1.0	0.076	mg/Kg		01/09/13 08:00	01/09/13 17:05	1
Cadmium	ND		0.50	0.041	mg/Kg		01/09/13 08:00	01/09/13 17:05	1
Chromium	ND		1.5	0.058	mg/Kg		01/09/13 08:00	01/09/13 17:05	1
Lead	ND		0.80	0.27	mg/Kg		01/09/13 08:00	01/09/13 17:05	1
Selenium	ND		1.3	0.86	mg/Kg		01/09/13 08:00	01/09/13 17:05	1
Silver	ND		1.0	0.16	mg/Kg		01/09/13 08:00	01/09/13 17:05	1

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-154986/2-A

Matrix: Solid

Analysis Batch: 155264

Client: CDM Smith, Inc.

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154986

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	100	97.0		mg/Kg		97	85 - 110	
Barium	200	199		mg/Kg		99	87 - 112	
Cadmium	10.0	9.80		mg/Kg		98	87 _ 110	
Chromium	20.0	19.6		mg/Kg		98	84 - 114	
Lead	50.0	49.4		mg/Kg		99	86 - 110	
Selenium	200	194		mg/Kg		97	83 _ 110	
Silver	5.00	5.04		mg/Kg		101	87 - 114	

Lab Sample ID: 280-37602-1 MS

Matrix: Solid

Analysis Batch: 155264

Client Sample ID: 0113-SB1-2051ST-SO

Prep Type: Total/NA

Prep Batch: 154986

,, c.c =										
-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	8.4		91.5	92.9		mg/Kg	\$	92	76 - 111	
Barium	240		183	457		mg/Kg	₽	117	52 - 159	
Cadmium	0.37	J	9.15	8.61		mg/Kg	₽	90	40 - 130	
Chromium	11		18.3	30.7		mg/Kg	\$	107	70 - 200	
Lead	27		45.7	72.1		mg/Kg	₽	98	70 - 200	
Selenium	ND		183	161		mg/Kg	₽	88	76 - 104	
Silver	ND		4.57	4.45		mg/Kg	₽	97	75 - 141	
<u> </u>										

Lab Sample ID: 280-37602-1 MSD

Matrix: Solid

Analysis Batch: 155264

Client Sample ID: 0113-SB1-2051ST-SO

Prep Type: Total/NA

Prep Batch: 154986

Allalysis Datcil. 133204									1 1eb	Datell. I	J-300
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	8.4		89.2	91.8		mg/Kg	₩	93	76 - 111	1	20
Barium	240		178	443		mg/Kg	₽	113	52 - 159	3	20
Cadmium	0.37	J	8.92	8.63		mg/Kg	₽	93	40 - 130	0	20
Chromium	11		17.8	28.9		mg/Kg	₩	100	70 - 200	6	20
Lead	27		44.6	65.2		mg/Kg	₽	85	70 - 200	10	20
Selenium	ND		178	159		mg/Kg	☼	89	76 - 104	1	20
Silver	ND		4.46	4.57		mg/Kg	₩	102	75 - 141	3	20

мв мв

ND

Result Qualifier

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 280-154989/1-A

Matrix: Solid

Analyte

Mercury

Analyte

Mercury

Analysis Batch: 155101

Client Sample ID: Method Blank

01/08/13 15:05

Prep Type: Total/NA

Prep Batch: 154989

Analyzed Dil Fac

Lab Sample ID: LCS 280-154989/2-A

Matrix: Solid

Analysis Batch: 155101

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Unit

mg/Kg

LCS LCS

0.383

Result Qualifier

MDL Unit

0.0055 mg/Kg

Prep Batch: 154989

%Rec.

Prepared

01/08/13 13:25

%Rec

92

Limits

87 - 111 TestAmerica Denver

Spike

Added

0.417

RL

0.017

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-37602-1 MS Client Sample ID: 0113-SB1-2051ST-SO **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 155101

Prep Batch: 154989

Sample Sample Spike MS MS Result Qualifier Added Analyte Result Qualifier D Limits Unit %Rec ₩ 0.065 0.461 96 87 - 111 Mercury 0.506 mg/Kg

Lab Sample ID: 280-37602-1 MSD

Matrix: Solid

Analysis Batch: 155101

Client Sample ID: 0113-SB1-2051ST-SO Prep Type: Total/NA

Prep Batch: 154989

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Limit Result Qualifier Unit Limits RPD mg/Kg Mercury 0.065 0.405 0.384 F 87 - 111 20

Method: Moisture - Percent Moisture

Lab Sample ID: 280-37602-1 DU Client Sample ID: 0113-SB1-2051ST-SO **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 154988

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit Limit Percent Moisture 6.7 % 6.5 20

10

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

GC/MS VOA

Prep Batch: 154981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	5035	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	5035	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	5035	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	5035	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	5035	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	5035	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	5035	
LCS 280-154981/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-154981/4-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 280-154981/1-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 154985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	5035	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	5035	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	5035	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	5035	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	5035	
LCS 280-154985/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-154985/4-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 280-154985/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 155009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	8260B	154981
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	8260B	154981
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	8260B	154981
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	8260B	154981
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	8260B	154981
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	8260B	154981
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	8260B	154981
LCS 280-154981/3-A	Lab Control Sample	Total/NA	Solid	8260B	154981
LCSD 280-154981/4-A	Lab Control Sample Dup	Total/NA	Solid	8260B	154981
MB 280-154981/1-A	Method Blank	Total/NA	Solid	8260B	154981

Analysis Batch: 155051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	8260B	154985
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	8260B	154985
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	8260B	154985
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	8260B	154985
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	8260B	154985
LCS 280-154985/3-A	Lab Control Sample	Total/NA	Solid	8260B	154985
LCSD 280-154985/4-A	Lab Control Sample Dup	Total/NA	Solid	8260B	154985
MB 280-154985/1-A	Method Blank	Total/NA	Solid	8260B	154985

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

GC/MS Semi VOA

Prep Batch: 154984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	3550C	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	3550C	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	3550C	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	3550C	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	3550C	
280-37602-5 MS	0113-SB3-5CEN-SO	Total/NA	Solid	3550C	
280-37602-5 MSD	0113-SB3-5CEN-SO	Total/NA	Solid	3550C	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	3550C	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	3550C	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	3550C	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	3550C	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	3550C	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	3550C	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	3550C	
LCS 280-154984/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 280-154984/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 155098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-5 MS	0113-SB3-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-5 MSD	0113-SB3-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	8270C	154984
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	8270C	154984
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	8270C	154984
LCS 280-154984/2-A	Lab Control Sample	Total/NA	Solid	8270C	154984
MB 280-154984/1-A	Method Blank	Total/NA	Solid	8270C	154984

GC VOA

Prep Batch: 154982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	5030B	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	5030B	
280-37602-2 MS	0113-SB2-2051ST-SO	Total/NA	Solid	5030B	
280-37602-2 MSD	0113-SB2-2051ST-SO	Total/NA	Solid	5030B	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	5030B	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	5030B	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	5030B	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	5030B	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	5030B	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	5030B	

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

GC VOA (Continued)

Prep Batch: 154982 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	5030B	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	5030B	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	5030B	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	5030B	
LCS 280-154982/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 280-154982/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 280-154982/3-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 155006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-2 MS	0113-SB2-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-2 MSD	0113-SB2-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	8015C	154982
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	8015C	154982
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	8015C	154982
LCS 280-154982/1-A	Lab Control Sample	Total/NA	Solid	8015C	154982
LCSD 280-154982/2-A	Lab Control Sample Dup	Total/NA	Solid	8015C	154982
MB 280-154982/3-A	Method Blank	Total/NA	Solid	8015C	154982

GC Semi VOA

Prep Batch: 154977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	3546	_
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	3546	
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	3546	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	3546	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	3546	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	3546	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	3546	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	3546	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	3546	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	3546	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	3546	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	3546	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	3546	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	3546	
LCS 280-154977/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 280-154977/1-A	Method Blank	Total/NA	Solid	3546	

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

GC Semi VOA (Continued)

Analysis Batch: 155205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	8015C	154977
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	8015C	154977
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	8015C	154977
LCS 280-154977/2-A	Lab Control Sample	Total/NA	Solid	8015C	154977
MB 280-154977/1-A	Method Blank	Total/NA	Solid	8015C	154977

Metals

Prep Batch: 154986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	3050B	
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	3050B	
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	3050B	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	3050B	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	3050B	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	3050B	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	3050B	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	3050B	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	3050B	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	3050B	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	3050B	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	3050B	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	3050B	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	3050B	
LCS 280-154986/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 280-154986/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 154989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	7471A	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	7471A	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	7471A	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	7471A	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	7471A	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	7471A	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	7471A	

TestAmerica Denver

Page 64 of 76

2

3

4

5

7

8

46

11

12

13

14

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Metals (Continued)

Prep Batch: 154989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	7471A	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	7471A	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	7471A	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	7471A	
LCS 280-154989/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 280-154989/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 155101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	7471A	154989
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	7471A	154989
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	7471A	154989
LCS 280-154989/2-A	Lab Control Sample	Total/NA	Solid	7471A	154989
MB 280-154989/1-A	Method Blank	Total/NA	Solid	7471A	154989

Analysis Batch: 155264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-1 MS	0113-SB1-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-1 MSD	0113-SB1-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	6010B	154986
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	6010B	154986
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	6010B	154986
LCS 280-154986/2-A	Lab Control Sample	Total/NA	Solid	6010B	154986
MB 280-154986/1-A	Method Blank	Total/NA	Solid	6010B	154986

General Chemistry

Analysis Batch: 154988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1	0113-SB1-2051ST-SO	Total/NA	Solid	Moisture	_

TestAmerica Denver

2

2

Л

5

6

g

40

11

4.0

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

General Chemistry (Continued)

Analysis Batch: 154988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-37602-1 DU	0113-SB1-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-2	0113-SB2-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-3	0113-SB3-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-4	0113-SB4-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-5	0113-SB3-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-6	0113-SB4-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-7	0113-SB6-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-8	0113-SB5-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-9	0113-SB6-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-10	0113-SB5-2051ST-SO	Total/NA	Solid	Moisture	
280-37602-11	0113-SB1-5CEN-SO	Total/NA	Solid	Moisture	
280-37602-12	0113-SB2-5CEN-SO	Total/NA	Solid	Moisture	

3

4

5

_

8

9

10

11

13

1

2

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Lab Sample ID: 280-37602-1

Matrix: Solid Percent Solids: 93.5

Client Sample ID: 0113-SB1-2051ST-SO

Date Collected: 01/06/13 09:30 Date Received: 01/08/13 09:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.127 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 14:45	LMH	TAL DEN
Total/NA	Prep	3550C			30.3 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		5			155098	01/09/13 10:39	DCK	TAL DEN
Total/NA	Prep	5030B			10.06 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 14:50	TEM	TAL DEN
Total/NA	Prep	3546			30.0 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 10:50	AMP	TAL DEN
Total/NA	Prep	7471A			0.65 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:10	NF	TAL DEN
Total/NA	Prep	3050B			1.11 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:10	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB2-2051ST-SO

Lab Sample ID: 280-37602-2

 Date Collected: 01/06/13 10:25
 Matrix: Solid

 Date Received: 01/08/13 09:00
 Percent Solids: 92.3

ate Received	: 01/08/13 09:0	JU							Percent	30110S: 92.3
=	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.594 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 15:45	LMH	TAL DEN
Total/NA	Prep	3550C			30.5 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		5			155098	01/09/13 11:00	DCK	TAL DEN
Total/NA	Prep	5030B			10.00 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 15:19	TEM	TAL DEN
Total/NA	Prep	3546			30.8 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 12:03	AMP	TAL DEN
Total/NA	Prep	7471A			0.71 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:17	NF	TAL DEN
Total/NA	Prep	3050B			1.09 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:19	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB3-2051ST-SO

Lab Sample ID: 280-37602-3

 Date Collected: 01/06/13 11:20
 Matrix: Solid

 Date Received: 01/08/13 09:00
 Percent Solids: 87.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.912 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 16:04	LMH	TAL DEN
Total/NA	Prep	3550C			30.5 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		5			155098	01/09/13 11:20	DCK	TAL DEN
Total/NA	Prep	5030B			10.03 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN

Lab Chronicle

Client: CDM Smith, Inc.

Date Collected: 01/06/13 11:20

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB3-2051ST-SO

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-3

Matrix: Solid Percent Solids: 87.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1			155006	01/08/13 16:48	TEM	TAL DEN
Total/NA	Prep	3546			30.4 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 12:28	AMP	TAL DEN
Total/NA	Prep	7471A			0.54 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:24	NF	TAL DEN
Total/NA	Prep	3050B			1.19 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:22	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB4-2051ST-SO

Date Collected: 01/06/13 12:15 Date Received: 01/08/13 09:00

Lab Sample ID: 280-37602-4

Matrix: Solid Percent Solids: 95.2

Jale Neceiveu	. 0 1/00/13 09.0	, o							reitein	3011us. 33.2
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.011 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 16:23	LMH	TAL DEN
Total/NA	Prep	3550C			31.7 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		10			155098	01/09/13 11:41	DCK	TAL DEN
Total/NA	Prep	5030B			10.10 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 17:17	TEM	TAL DEN
Total/NA	Prep	3546			30.1 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 12:52	AMP	TAL DEN
Total/NA	Prep	7471A			0.54 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:26	NF	TAL DEN
Total/NA	Prep	3050B			1.12 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:33	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN
_										

Client Sample ID: 0113-SB3-5CEN-SO

Date Collected: 01/06/13 15:35 Date Received: 01/08/13 09:00

Lab Sample ID: 280-37602-5 Matrix: Solid

Percent Solids: 92.2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.876 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 16:42	LMH	TAL DEN
Total/NA	Prep	3550C			31.6 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 12:22	DCK	TAL DEN
Total/NA	Prep	5030B			10.07 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 17:47	TEM	TAL DEN
Total/NA	Prep	3546			32.3 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 13:17	AMP	TAL DEN
Total/NA	Prep	7471A			0.49 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:28	NF	TAL DEN

TestAmerica Denver

Page 68 of 76

Lab Chronicle

Client: CDM Smith, Inc.

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-5

. Matrix: Solid Percent Solids: 92.2

Client Sample ID: 0113-SB3-5CEN-SO

Date Collected: 01/06/13 15:35

Lab Sam

Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 3050B 1.15 g 100 mL 154986 01/09/13 08:00 RC TAL DEN Total/NA 6010B TAL DEN 1 155264 01/09/13 17:36 JKH Analysis Total/NA Analysis Moisture 1 154988 01/08/13 11:33 AFB TAL DEN

Client Sample ID: 0113-SB4-5CEN-SO

Lab Sample ID: 280-37602-6

Date Collected: 01/06/13 16:10

Date Received: 01/08/13 09:00

Matrix: Solid
Percent Solids: 93.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.737 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 17:01	LMH	TAL DEN
Total/NA	Prep	3550C			30.5 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 13:24	DCK	TAL DEN
Total/NA	Prep	5030B			10.04 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 18:46	TEM	TAL DEN
Total/NA	Prep	3546			32.2 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 13:41	AMP	TAL DEN
Total/NA	Prep	7471A			0.57 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:31	NF	TAL DEN
Total/NA	Prep	3050B			1.11 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:39	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB6-5CEN-SO Lab Sample ID: 280-37602-7

Date Collected: 01/06/13 16:50 Matrix: Solid
Date Received: 01/08/13 09:00 Percent Solids: 93.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.946 g	5 mL	154981	01/08/13 11:07	JS	TAL DEN
Total/NA	Analysis	8260B		1			155009	01/08/13 17:20	LMH	TAL DEN
Total/NA	Prep	3550C			30.1 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 13:45	DCK	TAL DEN
Total/NA	Prep	5030B			10.02 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 19:15	TEM	TAL DEN
Total/NA	Prep	3546			30.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 14:06	AMP	TAL DEN
Total/NA	Prep	7471A			0.51 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:33	NF	TAL DEN
Total/NA	Prep	3050B			1.19 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:41	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-5CEN-SO

Date Collected: 01/06/13 17:35 Date Received: 01/08/13 09:00 Lab Sample ID: 280-37602-8

Matrix: Solid
Percent Solids: 93.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.312 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/08/13 19:57	AD	TAL DEN
Total/NA	Prep	3550C			32.0 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 14:06	DCK	TAL DEN
Total/NA	Prep	5030B			10.01 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 19:45	TEM	TAL DEN
Total/NA	Prep	3546			31.8 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 14:31	AMP	TAL DEN
Total/NA	Prep	7471A			0.61 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:35	NF	TAL DEN
Total/NA	Prep	3050B			1.07 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:44	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB6-2051ST-SO

Date Collected: 01/06/13 12:55 Date Received: 01/08/13 09:00 Lab Sample ID: 280-37602-9

Matrix: Solid Percent Solids: 94.7

ato itocorroa									. 0.00	0011401 0 11
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.229 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/08/13 20:17	AD	TAL DEN
Total/NA	Prep	3550C			32.3 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		5			155098	01/09/13 12:02	DCK	TAL DEN
Total/NA	Prep	5030B			10.00 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 20:14	TEM	TAL DEN
Total/NA	Prep	3546			30.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 14:56	AMP	TAL DEN
Total/NA	Prep	7471A			0.59 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:42	NF	TAL DEN
Total/NA	Prep	3050B			1.18 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:46	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN
•										

Client Sample ID: 0113-SB5-2051ST-SO

Date Collected: 01/06/13 13:30 Date Received: 01/08/13 09:00 Lab Sample ID: 280-37602-10

Matrix: Solid Percent Solids: 93.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.651 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/08/13 20:36	AD	TAL DEN
Total/NA	Prep	3550C			30.3 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 14:27	DCK	TAL DEN
Total/NA	Prep	5030B			10.07 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN

TestAmerica Denver

Page 70 of 76

3

4

<u>၁</u>

3

11

13

Lab Chronicle

Client: CDM Smith, Inc.

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB5-2051ST-SO

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-10

Matrix: Solid

Date Collected: 01/06/13 13:30 Percent Solids: 93.6 Date Received: 01/08/13 09:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1			155006	01/08/13 20:44	TEM	TAL DEN
Total/NA	Prep	3546			31.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 15:20	AMP	TAL DEN
Total/NA	Prep	7471A			0.62 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:45	NF	TAL DEN
Total/NA	Prep	3050B			1.04 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:49	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB1-5CEN-SO

Lab Sample ID: 280-37602-11 Date Collected: 01/06/13 14:15 Date Received: 01/08/13 09:00

Date Received	01/08/13 09:0	0							Percent	Solids: 94.4
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.860 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/09/13 01:11	AD	TAL DEN
Total/NA	Prep	3550C			31.4 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 14:47	DCK	TAL DEN
Total/NA	Prep	5030B			10.00 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 21:13	TEM	TAL DEN
Total/NA	Prep	3546			31.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 15:45	AMP	TAL DEN
Total/NA	Prep	7471A			0.65 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:47	NF	TAL DEN
Total/NA	Prep	3050B			1.10 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:51	JKH	TAL DEN
Total/NA	Analysis	Moisture		1			154988	01/08/13 11:33	AFB	TAL DEN

Client Sample ID: 0113-SB2-5CEN-SO

Date Collected: 01/06/13 14:50 Matrix: Solid Date Received: 01/08/13 09:00 Percent Solids: 93.6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.642 g	5 mL	154985	01/08/13 11:26	JS	TAL DEN
Total/NA	Analysis	8260B		1			155051	01/09/13 01:30	AD	TAL DEN
Total/NA	Prep	3550C			30.3 g	1000 uL	154984	01/08/13 14:30	ACF	TAL DEN
Total/NA	Analysis	8270C		1			155098	01/09/13 15:08	DCK	TAL DEN
Total/NA	Prep	5030B			10.07 g	10 mL	154982	01/08/13 11:07	AMB	TAL DEN
Total/NA	Analysis	8015C		1			155006	01/08/13 21:43	TEM	TAL DEN
Total/NA	Prep	3546			31.9 g	1000 uL	154977	01/08/13 12:20	LC	TAL DEN
Total/NA	Analysis	8015C		1			155205	01/09/13 16:20	AMP	TAL DEN
Total/NA	Prep	7471A			0.67 g	50 mL	154989	01/08/13 13:25	NF	TAL DEN
Total/NA	Analysis	7471A		1			155101	01/08/13 15:49	NF	TAL DEN

TestAmerica Denver

Lab Sample ID: 280-37602-12

Page 71 of 76

Matrix: Solid

Lab Chronicle

Client: CDM Smith, Inc.

Date Collected: 01/06/13 14:50

Date Received: 01/08/13 09:00

Project/Site: MINOT (RENTALINFR.IMAGINELMI)

Client Sample ID: 0113-SB2-5CEN-SO

Analysis

TestAmerica Job ID: 280-37602-1

Lab Sample ID: 280-37602-12

01/08/13 11:33 AFB

Matrix: Solid

Percent Solids: 93.6

TAL DEN

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.12 g	100 mL	154986	01/09/13 08:00	RC	TAL DEN
Total/NA	Analysis	6010B		1			155264	01/09/13 17:54	JKH	TAL DEN

154988

1

Laboratory References:

Total/NA

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Moisture

Ę

5

7

8

10

11

13

14

Temperature on Receipt 5.4 FP Sampler ID

TestAmerica

in Hal analyted results for additional analysis Special Instructions/ Conditions of Receipt 862 Etta Sample posite receipted (A fee may be assessed if samples are retained (A fee may be assessed if 51/20/10 THE LEADER IN ENVIRONMENTAL TESTING Analysis (Attach list if more space is needed) Lab Number 26 291 CRO/DRO) HT QC Requirements (Specify) \oAnZ HO₅M Disposal By Lab 1. Received By

Fed CX
2. Received By Containers & Preservatives HOBN 312-285-7737 3. Received By That today ЮН Telephone Number (Area Code)/Fax Number €ONH Lab Contact Drinking Water? Yes □ No 🕅 John Gaby 458O4 Return To Client 1260 Sample Disposal llo8 Time Carrier/Waybill Number Matrix pag Project Manager snoenby Site Contact IJ∀ Unknown Other Date 10 17 Seas Time 833 ☐ 14 Days ☐ 21 Days 16/13 ☐ Poison B Mindt (RENTALINFR, IMAGENELMI) Date Zip Code 5870 (Suite 27 city of Minot/COM Smith (Containers for each sample may be combined on one line) Skin Irritant 0113-5BI-20515T-50 6113-583-20515T-50 Sample I.D. No. and Description 0113-582-20515T-50 0113-5B4-26515T-50 T Days 1600 and Am. SW ☐ Flammable Contract/Purchase Order/Quote No. Project Name and Location (State) ☐ 48 Hours Possible Hazard Identification Turn Around Time Required Minot 1. Relinquished By Relinquished By Relinquished By X Non-Hazard 7AL-4124-280 (0508) 24 Hours Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Sampler ID Temperature on Receipt 5.2 M. TestAmerica

Chain of	Tei	mperature on Rece	ipt 5.7 de	Temperature on Receipt 5.7 de 100 ICA	2		
CUSICOS (1908)	Dri	Drinking Water? Yes □		NO 1/8/1 THE LEADER IN ENVIRONMENTAL TESTING	NTAL TESTING		
Client Com Smith	Pr	Project Manager	John Gabs	Date	61/10/1/13	Chain of Custody Number 170087	-
1600 2nd Rive. SW, Swite of	~	Telephone Number (Area Code)/Fax Number	ode)/Fax Number	Lab Number	nber	Page of	
City State Zip Code	ę.	Site Contact	Lab Contact Kale Yedes		ach list if s needed)		
coation (State) (REVIALINFR, IM)		Carrier/Waybill Number		ુપ્છ/o કામસ		Special Instructions/	uctions/
Contract/Purchase Order/Quote No.	 	Matrix	Containers & Preservatives	z 1 8 ∧ (GR		Conditions o	f Receipt
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date Time	Ajr Sed.	Unpres. H2SO4 HOS HOI	MOSC NACH TOLK N			
	16/13 153	,		XXXXX		Sez extra	sample
	6/13 1610	X	X	XXXXX		will be held at lab	at lab
8	4/13 1650	\times_0	\times_	メメメメメメ		for additional and	aralysis
	5/13 1735	X 5:	X	XXXXXXX		peding receipt or	to tail
						10, try and	Inithal analytical results
						,	
							1
							:
Possible Hazard Identification Non-Lorund Poison B	sop B [Inknown	Sample Disposal	ient Disposal By Lab	Archive For Call J. Grads	í	(A fee may be assessed if samples are retained longer than 1 month)	Jed
Ime Required]	1		Spe			
48 Hours 7 Days 14 Days	☐ 21 Days ☐	ither	1. Received By			Date	92
Method C. Facedon		1/2/13 1200		X		1/7/13	1300
2. Relinquished By /	Ğ		2. Received By	Show Die		Date 1/8//3 0	0900 0900
3. Relinquished By	<u>~</u> _	Date	3. Received By			Date Ime	

Comments

| \$62 CX+1x 01 | (A fee may be assessed if samples are retained | X Archive For (x) | 2, 6 Months longer than 1 month) **TestAmerica** THE LEADER IN ENVIRONMENTAL TESTING 01/67/13 Analysis (Attach list if more space is needed) Lab Number 201 Hd1 812/31/8 QC Requirements (Specify) \oAnZ HO∌V Disposal By Lab Containers & Preservatives НОвИ Kae Yoder

EONH ⊅OSZH

Hos

pəş noenby

Time

Date

Sample I.D. No. and Description (Containers for each sample may be combined on one line)

0113-5BG-205 1ST-50 0113-585-205157-50

1330 1055

1415 1450

1/6/13

16/13

0113-5B2-5CEN-50 6113-5B1-5CEN-50

Matrix

her additional analysis

nithal analythal perdia recipt

will be held at lab

Special Instructions/ Conditions of Receipt

Chain of Custody Number

Page.

312-786-713

Carrier/Waybill Number

Minet (RENTALINFR, IMACINELMI)

Project Name and Location (State)

Site Contact

State Zip Code

ND 5876

Address and Ave, SW Suite27

Client City of Minet/COM Smith

Custody Record

Chain of

Telephone Number (Area Code)/Fax Number

Project Manager John Grals

Drinking Water? Yes □ No)

 Received By 2. Received By 3. Received By 1200 Other. Date 21 Days 14 Days ☐ 7 Days ☐ 48 Hours 1. Relinquished By (2. Relinquished By (3. 3. Relinquished By

Unknown | Return To Client

☐ Poison B

Skin Initant

| Flammable

X 24 Hours

Possible Hazard Identification Non-Hazard Fiar Turn Around Time Required DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Comments

Page 75 of 76

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 280-37602-1

Login Number: 37602 List Source: TestAmerica Denver

List Number: 1

Creator: Bindel, Aaron M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C Historic Preservation



Jack Dalrymple Governor of North Dakota

North Dakota State Historical Board

Gereld Gerntholz Valley City - President

Calvin Grinnell New Town - Vice President

> A. Ruric Todd III Jamestown – Secretary

> > Albert I. Berger Grand Forks

Diane K. Larson Bismarck

Chester E. Nelson, Jr. Bismarck

> Margaret Puetz Bismarck

Sara Otte Coleman Director Tourism Division

> Kelly Schmidt State Treasurer

Alvin A. Jaeger Secretary of State

Mark Zimmerman Director Parks and Recreation Department

Francis Ziegler Director Department of Transportation

> Merlan E. Paaverud, Jr. Director

Accredited by the American Association of Museums since 1989 October 1, 2012

Ms Rebecca Jablon, AICP, LEED AP Environmental Planner CDM Smith 3201 Jermantown Road, Suite 400 Fairfax, VA 22030

ND SHPO Ref.:12-6543, City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades, Minot, Ward County, North Dakota

Dear Ms. Jablon,

We reviewed ND SHPO Ref.:12-6543, City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades, Minot, Ward County, North Dakota and if consulted by a Federal Agency we would concur with a "No Historic Properties Affected" determination provided the project is of the nature specified, and is restricted to the specific areas described in the correspondence dated September 7, 2012 (Postmarked September 19, 2012 and received September 24, 2012). Please keep in mind that this project takes place within the Commercial and Industrial Historic Districts which are listed in the National Register of Historic Places, thus any impacts to structures within the APE should be avoided.

Thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in further correspondence for this specific project. If you have any questions please contact Lisa Steckler, Historic Preservation Planner at (701) 328-3577 or lsteckler@nd.gov

Sincerely,

Merlan E. Paayerus, Jr.

cate Historic Preservation Officer

(North Dakota)

and

Director

State Historical Society of North Dakota



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030

tel: 703-691-6500 fax: 703-267-6083

CERTIFIED

September 7, 2012

Mr. Merlan E. Paaverud, Jr. Attn: Review and Compliance North Dakota Historic Preservation Office 612 E. Boulevard Ave. Bismarck, ND 58505-0830

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Paaverud:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Mr. Merlan E. Paaverud, Jr. September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2rd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the North Dakota Historic Preservation Office concerning the potential impact to historic resources from the proposed project. The enclosed figures identify the proposed project location.



Mr. Merlan E. Paaverud, Jr. September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith

Enclosures



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030 tel: 703-691-6500

fax: 703-267-6083

CERTIFIED

September 7, 2012

Darrell "Curly" Youpee, THPO
Assiniboine and Sioux Tribes of the Fort Peck Indian Reservation
P.O. Box 1027
Poplar, MT 59255

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Youpee:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Mr. Darrell "Curly" Youpee, THPO September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the Assiniboine and Sioux Tribes of the Fort Peck Indian Reservation concerning the potential impact to historic resources from the proposed project. The enclosed figures identify the proposed project location.



Mr. Darrell "Curly" Youpee, THPO September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith

Enclosures



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030

tel: 703-691-6500 fax: 703-267-6083

CERTIFIED

September 7, 2012

Barbara Jackson Spirit Lake Tribe PO Box 359 Fort Totten, North Dakota 58335

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Ms. Jackson:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Ms. Barbara Jackson September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the Spirit Lake Tribe concerning the potential impact to historic resources from the proposed project. The enclosed figures identify the proposed project location.



Ms. Barbara Jackson September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith

Enclosures



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030

tel: 703-691-6500 fax: 703-267-6083

CERTIFIED

September 7, 2012

Tribal Historic Preservation Office Standing Rock Sioux Tribe PO Box D Fort Yates, ND 58538

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

To Whom It May Concern:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Standing Rock Sioux Tribe September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the Standing Rock Sioux Tribe concerning the potential impact to historic resources from the proposed project. The enclosed figures identify the proposed project location.



Standing Rock Sioux Tribe September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith

Enclosures



3201 Jermantown Road, Suite 400

Fairfax, Virginia 22030

tel: 703-691-6500 fax: 703-267-6083

CERTIFIED

September 7, 2012

Kade Ferris, THPO Turtle Mountain Band of Chippewa PO Box 900 Belcourt, North Dakota 58316

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Kade Ferris:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Kade Ferris, THPO September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the project area and 58 maintenance holes, as all segments of pipe are smaller than current design standards set by the City of Minot. The existing diameters range from 10 inches to 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the Turtle Mountain Band of Chippewa concerning the potential impact to historic resources from the proposed project. The enclosed figures identify the proposed project location.



Kade Ferris, THPO September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030 tel: 703-691-6500

fax: 703-267-6083

EMAIL

September 7, 2012

Mr. Elgin Crows Breast, THPO Three Affiliated Tribes c/o Tribal Historic Preservation Office 404 Frontage Road New Town, North Dakota 58763

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Crows Breast:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HÜD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to

Mr. Elgin Crows Breast, THPO September 7, 2012 Page 2

accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the Three Affiliated Tribes concerning the potential impact to historic resources from the proposed project. The enclosed figures identify the proposed project location.

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

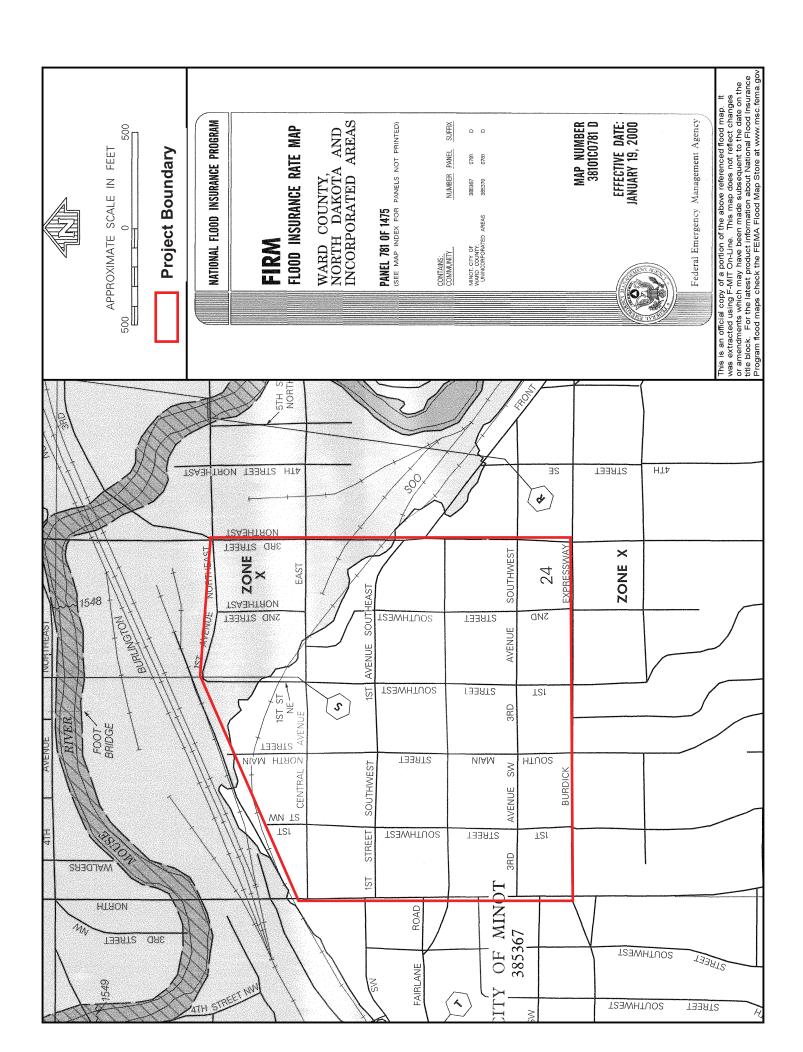
Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith Inc.

Appendix D Floodplain Management





North Dakota State Water Commission

900 EAST BOULEVARD AVENUE, DEPT 770 • BISMARCK, NORTH DAKOTA 58505-0850 701-328-2750 • TDD 701-328-2750 • FAX 701-328-3696 • INTERNET: http://swc.nd.gov

October 11, 2012

Rebecca Jablon CDM Smith 3201 Jermantown Road, STE 400 Fairfax, VA 22030

Dear Ms. Jablon:

This is in response to your request for review of environmental impacts associated with the City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades.

The proposed project has been reviewed by State Water Commission staff and the following comments are provided:

- There are no floodplains identified and/or mapped where this proposed project is to take place. The area is designated as a Zone X. It is also believed that the project will not affect an identified floodplain as identified by the National Flood Insurance Program (NFIP). The NFIP map used to make this determination is: Ward County, Panel #38101C0781D, Date 1/19/2000.
- It is the responsibility of the project sponsor to ensure that local, state and federal agencies are contacted for any required approvals, permits, and easements.
- All waste material associated with the project must be disposed of properly and not placed in identified floodway areas.
- No sole-source aquifers have been designated in ND.

There are no other concerns associated with this project that affect State Water Commission or State Engineer regulatory responsibilities.

Thank you for the opportunity to provide review comments. If you have any questions, please call me at 701-328-4967.

It have a to institute, of the propert aposent to custon that local, state and federal agencies and

Sincerely

Linda Weispfenning

Water Resource Planner

JACK DALRYMPLE, GOVERNOR

CHAIRMAN

LW:dp/1570

controlled for any required apparently, pounds, and casements.

solds the project must be disposed to properly and not pieced in



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030 tel: 703-691-6500

fax: 703-267-6083

CERTIFIED

September 7, 2012

Todd Sando, P.E., State Engineer ND State Water Commission 900 E. Boulevard Ave., Dept 770 Bismarck, ND 58505-0850

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Sando:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Mr. Todd Sando, P.E. September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the North Dakota State Water Commission concerning potential impacts from the proposed project. The enclosed figures identify the proposed project location.



Mr. Todd Sando, P.E. September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith

Appendix E Wetland Protection



National Wetlands Inventory U.S. Fish and Wildlife Service



Minot Downtown Redevelopment Sep 24, 2012

Wetlands

Estuarine and Marine Deepwater Freshwater Forested/Shrub Freshwater Emergent

Estuarine and Marine

Freshwater Pond

Riverine

Other

User Remarks:

Project Boundary



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030 tel: 703-691-6500

fax: 703-691-6500

CERTIFIED

September 7, 2012

Jim Luey Environmental Protection Agency, Region 8 Wetlands Program Mail Code 8-EPR-EP 1595 Wynkoop St. Denver, Colorado 80202-1129

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Luey:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Mr. Jim Luey September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the Environmental Protection Agency concerning the potential impact to wetland resources from the proposed project. The enclosed figures identify the proposed project location.



Mr. Jim Luey September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030

tel: 703-691-6500 fax: 703-267-6083

CERTIFIED

September 7, 2012

Greg Link
Chief, Conservation & Communication Division
ND Game & Fish Department
100 N. Bismarck Expressway
Bismarck, ND 58501-5095

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Link:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE to pave over the trench created during the utility improvements.



Mr. Greg Link September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains within the project area ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the North Dakota Game & Fish Department concerning the potential impact to wildlife and wildlife habitat from the proposed project. The enclosed figures identify the proposed project location.



Mr. Greg Link September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith

Appendix F Sole Source Aquifers

From: **Eric Steinhaus** To: Carbo, George

Cc: Jablon, Rebecca; Nat Miullo; truskowski.brent@epa.gov; Jim Luey; Dana Allen

Subject: Minot ND NEPA reviews; Sole Source Aquifers

Date: Tuesday, June 12, 2012 11:56:22 AM

George -

We have confirmed with the North Dakota Department of Health that they have not classified any Sole Source Aquifers in North Dakota. This information can just be documented in the EA.

Eric Steinhaus North Dakota Watershed Coordinator Ecosystems Protection Program (EPR-EP) EPA Region 8, Denver (303) 312-6837

Toll Free: 1-800-227-8917 (from Region 8 states)

"Carbo, George" ---06/11/2012 10:33:36 AM---Mr. Steinhaus, Thank you for speaking with me on the phone briefly this morning. Our firm will be pr

From: "Carbo, George" < CarboGJ@cdmsmith.com> To: Eric Steinhaus/R8/USEPA/US@EPA Cc: "Jablon, Rebecca" < Jablon RS@cdmsmith.com>

Date: 06/11/2012 10:33 AM Subject: Minot ND NEPA reviews

Mr. Steinhaus,

Thank you for speaking with me on the phone briefly this morning. Our firm will be preparing EAs for the City of Minot, ND to obtain environmental clearances for the use of HUD CDBG - Disaster Recovery funds. NEPA review requires documentation that the proposed projects will not impact Sole Source Aquifers and you are listed as the SSA program contact for ND on the Region 8 website. Since there are no Federal SSAs in ND, we would like to know your preference of receiving a letter for each project undergoing NEPA review or documentation within the EA stating that there are no SSAs in North Dakota and including the attached printout from the Region 8 website.

As we discussed, State agencies will also be contacted during the NEPA review – including ND State Water Commission.

Thank you for your assistance,

George Carbo, AICP | CDM Smith

1317 26th Avenue | Gulfport, MS 39501 | w: 228.822.3919 | c: 228.224.2305 | carbogj@cdmsmith.com cdmsmith.com

[attachment "solesourceEPARegion8.pdf" deleted by Eric Steinhaus/R8/USEPA/US]



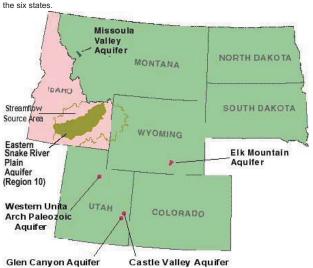
Region 8

Region 8 Sole Source Aquifer (SSA) Program

As of March 2009, EPA has designated 77 Sole Source Aquifers nationwide. Five of these are in Region 8 (which includes Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming).

Pending Petitions

There are currently NO sole source aquifers designated in Colorado, North Dakota or South Dakota and no pending petitions in any of



Sole Source Aquifer Program

- Overview of the SSA program
 - Commonly Asked Questions and Answers
- Project Review Areas of Concern
- Petitioners' Guidance
- Region 8 SSA contacts
- Region 8 SSA Maps

	I	I	I
State	Sole Source Aquifer Name	Federal Reg. Cit.	Publ. Date
MT	Missoula Valley Aquifer	53 FR 20895	06/07/1988
UT	Castle Valley Aquifer System	66 FR 41027	08/06/2001
UT	Western Uinta Arch Paleozoic Aquifer System at Oakley, UT	65 FR 232	12/01/2000
UT	Glen Canyon Aquifer System	67 FR 736	01/07/2002
WY*	Eastern Snake River Plain Aquifer Stream Flow Source Area	56 FR 50638	10/07/1991
WY	Elk Mountain Aquifer	63 FR 38167	07/15/1998

^{*}The Eastern Snake River Plain Aquifer is jointly managed with Region 10. While listed in both regions, it is counted only once in the national total of 77.

Overview of the SSA program

The Sole Source Aquifer (SSA) Protection Program is authorized by Section 1424(e) of the Safe Drinking Water Act of 1974 (Public Law 93-523, 42 U.S.C. 300 et. seq).

EPA defines a Sole Source Aquifer as one which supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. EPA guidelines also stipulate that these areas can have no alternative drinking water source(s) which could physically, legally, and economically supply all those who depend upon the aquifer for drinking water.

Petition for Designation

Although the agency has statutory authority to initiate SSA designations, EPA has a longstanding policy of only responding to petitions. Any person may apply for SSA designation. A "person" is any individual, corporation, company, association, partnership, state, municipality, or federal agency. A petitioner is responsible for providing EPA with hydrogeologic and drinking water usage data, and other technical and administrative information required for assessing designation criteria.

In 1987, EPA published the Sole Source Aquifer Designation Petitioner Guidance to assist those interested in preparing and submitting petitions to EPA regional offices. The document provides procedures and criteria for proposing aquifer boundaries, determining whether an aquifer is the sole or principal source of drinking water, and for evaluating alternative sources of drinking water.

In general, the designation decision process takes a minimum of six months from the time that the petitioner submits a complete petition to EPA. The process may take considerably longer, depending on the technical complexity of the petition, and on the number of petitions that may be undergoing review within the EPA regional office at a particular time.

Project Review Authority and Coordination

If an SSA designation is approved, proposed federal financially-assisted projects which have the potential to contaminate the aquifer are subject to EPA review. Proposed projects that are funded entirely by state, local, or private concerns are not subject to EPA review. Examples of federally funded projects which have been reviewed by EPA under the SSA protection program include:

- highway improvements and new road construction
- public water supply wells and transmission lines
- wastewater treatment facilities
- construction projects that involve disposal of storm water
- · agricultural projects that involve management of animal waste
- projects funded through Community Development Block Grants

Most projects referred to EPA for review meet all federal, state, and local ground water protection standards and are approved without any additional conditions being imposed. Occasionally, site or project-specific concerns for ground water quality protection lead to specific recommendations or additional pollution prevention requirements as a condition of funding. In rare cases, federal funding has been denied when the applicant has been either unwilling or unable to modify the project.

Limitations of the Program

Sole source aquifer designation provides only limited federal protection of ground water resources which serve as drinking water supplies. It is not a comprehensive ground water protection program. Protection of ground water resources can best be achieved through an integrated and coordinated combination of federal, state, and local efforts.

Although designated aquifers have been determined to be the "sole or principal" source of drinking water for an area, this does not imply that they are more or less valuable or vulnerable to contamination than other aquifers which have not been designated by EPA. Many valuable and sensitive aquifers have not been designated simply because nobody has petitioned EPA for such status or because they did not qualify for designation due to drinking water consumption patterns over the entire aquifer area. Furthermore, ground water value and vulnerability can vary considerably both between and within designated aquifers. As a result, EPA does not endorse using SSA status as the sole or determining factor in making land use decisions that may impact ground water quality. Rather, site-specific hydrogeological assessments should be considered along with other factors such as project design, construction practices, and long-term management of the site.

Region 8 SSA Contacts

Colorado

Greg Oberley 303-312-7043 oberley.gregory@epa.gov

Montana

Carol Russell 303-312-6310 russell.carol@epa.gov

North Dakota

Eric Steinhaus 303-312-6837 steinhaus.eric@epa.gov

South Dakota

Greg Oberley 303-312-7043 oberley.gregory@epa.gov

Utah

Darcy Campbell 303-312-6709 campbell.darcy@epa.gov

Wyoming

Mike Wireman 303-312-6719 wireman.mike@epa.gov

WCMS

Last updated on Wednesday, January 18, 2012

http://www.epa.gov/region8/water/solesource.html#contacts

Appendix G Endangered Species Act



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030 tel: 703-691-6500

fax: 703-267-6083

CERTIFIED

September 7, 2012

Jeffrey Towner, Field Supervisor US Fish & Wildlife Service ND Field Office 3425 Miriam Ave. Bismarck, ND 58501-7926

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Towner:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Mr. Jeffrey Towner September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the North US Fish & Wildlife Service concerning the potential impact to threatened and endangered species from the proposed project. The enclosed figures identify the proposed project location.



Mr. Jeffrey Towner September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

Relacia John

CDM Smith

Appendix H Farmland Protection Policy Act

United States Department of Agriculture



Natural Resources Conservation Service PO Box 1458 Bismarck, ND 58502-1458



September 19, 2012

CDM Smith 3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030

Re: City of Minot CDBG-DR Program

Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Sirs:

The Natural Resources Conservation Service (NRCS) has reviewed your letter dated September 7, 2012, concerning new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extension to the existing City infrastructure within the downtown area to support future development.

NRCS has a major responsibility with the Farmland Protection Policy Act (FPPA) in documenting conversion of farmland (i.e., prime, statewide importance and local importance) to non agriculture use when federal funding is used. Your proposed project is within city limits where FPPA does not apply, therefore, no further action is needed.

If you have additional questions pertaining to FPPA, please contact Steve Sieler, Liaison Soil Scientist, NRCS, Bismarck, ND at 701-530-2019.

Sincerely,

Steen J. Siele act. WADE D. BOTT

State Soil Scientist



3201 Jermantown Road, Suite 400
Fairfax, Virginia 22030
tel: 703-691-6500
fax: 703-267-6083

a s

CERTIFIED

September 7, 2012

Mary E. Podoll, State Conservationist Natural Resources Conservation Service PO Box 1458 Bismarck, ND 58502-1458

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Ms. Podoll:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Ms. Mary Podoll September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the Natural Resources Conservation Service concerning the potential impact to farmland and natural resources from the proposed project. The enclosed figures identify the proposed project location.



Ms. Mary Podoll September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

Relacco Jolsh

CDM Smith

Appendix I

Toxic Chemicals and Gases, Hazardous Materials, Contamination and Radioactive Substances



NEPAssist Report

Minot Downtown Redevelopment



52

16th Ave 3E

Geographic coordinates:

POLYGON

(48.232443, -101.295877, 48.236817, -101.296091, 48.237903, -101.292915, 48.237908, -101.291327, 48.237731, -101.288280, 48.233472, -101.288280, 48.233358, -101.285448, 48.233358, -101.285448, -101.with buffer 3000 feet

Burdick Expy I

1 miles © 2010 NAVTEQ © AND Map Legend

Note: The information in the following reports is based on publicly available databases and web services. The National Report uses nationally available datasets and the State Reports use datasets available through the EPA Regions. Click on the hyperlinked question to view the data source and associated metadata.

National Report 🔍

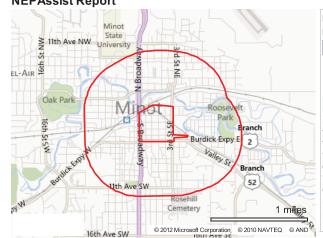
Project Area	0.13 sq mi
Within 3000 feet of an Ozone 8 - hr Non-Attainment Area?	<u>no</u>
Within 3000 feet of a PM2.5 Non-Attainment Area?	<u>no</u>
Within 3000 feet of a Lead Non-Attainment Area?	<u>no</u>
Within 3000 feet of a Federal Land?	<u>no</u>
Within 3000 feet of an impaired stream?	<u>no</u>
Within 3000 feet of an impaired waterbody?	<u>no</u>
Within 3000 feet of a waterbody?	<u>no</u>
Within 3000 feet of a stream?	<u>ves</u>
Within 3000 feet of an NWI w etland?	<u>click here</u> May take several
	minutes
Within 3000 feet of a Toxic Substances Control Act (TSCA) site?	<u>no</u>
Within 3000 feet of a RADInfo site?	<u>no</u>
Within 3000 feet of a Brownfields site?	<u>no</u>
Within 3000 feet of a Superfund site?	<u>no</u>
Within 3000 feet of a Toxic Release Inventory (TRI) site?	<u>no</u>
Within 3000 feet of a water discharger (NPDES)?	<u>no</u>
Within 3000 feet of an air emission facility?	<u>ves</u>
Within 3000 feet of a hazardous waste (RCRA) facility?	<u>ves</u>
Within 3000 feet of a school?	<u>ves</u>
Within 3000 feet of an airport?	<u>no</u>
Within 3000 feet of a hospital?	<u>ves</u>
Within 3000 feet of a designated sole source aquifer?	<u>no</u>
Within 3000 feet of a historic property on the National Register of Historic Places?	<u>ves</u>

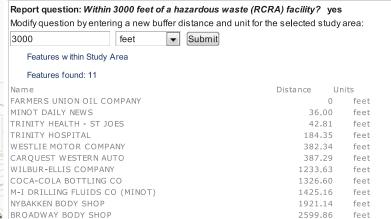
North Dakota Report 🌵 EJView Reports 🌵

Last updated on Friday, December 28, 2012



NEPAssist Report





Last updated on Friday, December 28, 2012



Enforcement & Compliance History Online (ECHO)

You are here: EPA Home Compliance and Enforcement ECHO Search Data Search Results

Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip
	FRS	<u>110035981676</u>	FARMERS UNION OIL COMPANY	215 CENTRAL AVE E	MINOT	ND	58701
RCRA	RCR	NDR000008540	FARMERS UNION OIL COMPANY DBA ENERBASE	215 E CENTRAL AVE	MINOT	ND	58701

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110035981676					LRT: 48.236752 , -101.288666	No		
RCRA	NDR000008540		Active (H				No		42472

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	NDR000008540	0	Never	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data reco	rds returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Information on the nature of <u>alleged violations</u> is available on the FAQ page.

Ctatuta	Sauras ID	Current SNC/HPV?	Decembelon	Commont As Of	Otro in NC (of 42)	$\Box\Box$
Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)	

RCRA NDR000008540 No 12/09/2012 **0**

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID RCRA: NDR000008540		QTR1 Jan- Mar10	QTR2 Apr- Jun10	Jul-	QTR4 Oct- Dec10	QTR5 Jan- Mar11	QTR6 Apr- Jun11	QTR7 Jul- Sep11	Oct-		QTR10 Apr- Jun12	QTR11 Jul- Sep12	QTR12 Oct- Dec12
Facility Level Status								,,					
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description	
			- No data records retur	ned.			

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action		
Law/Section	Number	Туре	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost		
	- No data records returned.											

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to	Total On-site	Total Off-site	Total Releases and					
/	Emissions	Discharges	Injections	Land	Releases	Transfers	Transfers					
- No c	No data records returned											

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Radius of Area:	N/A	Land Area:	N/A	Households in area:	N/A
- No data records returned.					

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



You are here: EPA Home Compliance and Enforcement ECHO Search Data Search Results

Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip
	FRS	<u>110004063557</u>	MINOT DAILY NEWS	301 4TH STREET S.E.	МІМОТ	ND	58701
RCRA	RCR	NDD006166383	MINOT DAILY NEWS	301 4TH STREET S.E.	MINOT	ND	58701

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110004063557					LRT: 48.232265 , -101.286877	No		
RCRA	NDD006166383	CESQG	Active (H				No		

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	NDD006166383	1	02/23/2012	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
RCRA	NDD006166383	IRCR	COMPLIANCE EVALUATION INSPECTION ON-SITE	State	102/23/20121	No Violations Or Compliance Issues Were Found

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Information on the nature of <u>alleged violations</u> is available on the FAQ page.

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)	
RCRA	NDD006166383	No		12/09/2012	0	П

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
NDD006166383		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description	
			- No data records retur	ned.			

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action
Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost
				-	No data record	ls returned.				

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to	Total On-site	Total Off-site	Total Releases and
/	Emissions	Discharges	Injections	Land	Releases	Transfers	Transfers
- No c	lata records re	turned.					

TRI Total Releases and Transfers by Chemical and Year

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Open more detailed information in a new window (links leave ECHO): 1 Mi 3 Mi or 5 Mi.

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2000 US Census data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA <u>Locational Reference Table(LRT)</u> when available.

Radius of Area:	3 Miles	Land Area:	99.61%	Households in area:	15,271
Center Latitude:	48.233324	Water Area:	0.39%	Housing units in area:	16,189
Center Longitude:	-101.298204	Population Density:	1280.19/sq. mi.	Households On Public Assistance:	444
Total Persons:	36,050	Percent Minority:	7.56%	Persons Below Poverty Level:	4,463

Race Breakdown	Persons (%)	Age Breakdown:	Persons (%)
White:	33,605 (93.22%)	Child 5 years and less:	2,767 (7.68%)
African-american:	432 (1.20%)	Minors 17 years and younger:	8,358 (23.18%)
Hispanic-Origin:	634 (1.76%)	Adults 18 years and older:	27,692 (76.82%)
Asian/Pacific Islander:	165 (0.46%)	Seniors 65 years and older:	5,540 (15.37%)
American Indian:	1,094 (3.03%)		
Other/Multiracial:	236 (0.65%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown:	Households (%)
Less than 9th grade:	1,534 (7.25%)	Less than \$15,000:	3,169 (20.75%)
9th-12th grades:	1,583 (7.48%)	\$15,000-\$25,000:	2,597 (17.01%)
High School Diploma:	6,434 (30.40%)	\$25,000-\$50,000:	4,935 (32.32%)
Some College/2-yr:	6,021 (28.45%)	\$50,000-\$75,000:	2,647 (17.33%)
B.S./B.A. or more:	5,589 (26.41%)	Greater than \$75,000:	1,893 (12.40%)

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID Facility Name		Street Address	City	State	Zip	
	FRS	<u>110022362691</u>	TRINITY HEALTH - ST JOES	407 3RD ST SE	MINOT	ND	58701	
RCRA	RCR	NDD071765358	TRINITY HOSPITAL - ST JOSEPH'S	407 3RD ST SE	MINOT	ND	58701	

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110022362691					LRT: 48.232522 , -101.288429	No		
RCRA	NDD071765358	CESQG	Active (H)				No		62211

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs	
RCRA	NDD071765358	0	Never	0	\$00	

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data reco	rds returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

	Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)		
- 1							_	4

RCRA NDD071765358 No 12/09/2012 **0**

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
NDD071765358		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description	
			- No data records retur	ned.			

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action
Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost
				-	No data record	ds returned.				

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to	Total On-site	Total Off-site	Total Releases and				
/	Emissions	Discharges	Injections	Land	Releases	Transfers	Transfers				
- No c	No data records returned.										

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Radius of Area:	N/A	Land Area:	N/A	Households in area:	N/A
- No data records returned.					

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. NCDB: 10/27/2006. FRS: 12/06/2012. ICIS: 12/07/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



You are here: EPA Home Compliance and Enforcement ECHO Search Data Search Results

Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip	
	FRS	<u>110004064734</u>	TRINITY HOSPITAL	1 BURDICK EXPRESSWAY W	МІМОТ	ND	58701	
RCRA	RCR	NDD071762694	TRINITY HOSPITAL	1 BURDICK EXPRESSWAY W	MINOT	ND	58701	

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110004064734					LRT: 48.231949 , -101.294327	No		
RCRA	NDD071762694	CESQG	Active (H)				No		

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs	
RCRA	NDD071762694	0	12/26/2002	0	\$00	

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data reco	ords returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)	П
Otatate	Ocurce in	Ourient Onorth V:	Description	Our cit As Or	Quis ili No (oi 12)	

I	I		1	I	l	1
IRCRA	NDD071762694	No		112/09/2012	0	

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
NDD071762694		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description	
			- No data records retur	ned.			٦

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

	Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action	
	Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost	
Γ	- No data records returned.											

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to Land	Total On-site	Total Off-site	Total Releases and				
/	Emissions	Discharges	Injections		Releases	Transfers	Transfers				
- No d	No data records returned.										

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Open more detailed information in a new window (links leave ECHO): 1 Mi 3 Mi or 5 Mi.

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2000 US Census data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA <u>Locational Reference Table(LRT)</u> when available.

Radius of Area:	3 Miles	Land Area:	99.65%	Households in area:	15,429
Center Latitude:	48.232802	Water Area:	0.35%	Housing units in area:	16,356
Center Longitude:	-101.292969	Population Density:	1293.15/sq. mi.	Households On Public Assistance:	455
Total Persons:	36,428	Percent Minority:	7.50%	Persons Below Poverty Level:	4,537

Race Breakdown	Persons (%)	Age Breakdown:	Persons (%)
White:	33,976 (93.27%)	Child 5 years and less:	2,798 (7.68%)
African-american:	431 (1.18%)	Minors 17 years and younger:	8,464 (23.23%)
Hispanic-Origin:	634 (1.74%)	Adults 18 years and older:	27,964 (76.77%)
Asian/Pacific Islander:	169 (0.46%)	Seniors 65 years and older:	5,574 (15.30%)
American Indian:	1,100 (3.02%)		
Other/Multiracial:	236 (0.65%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown:	Households (%)
Less than 9th grade:	1,564 (7.31%)	Less than \$15,000:	3,211 (20.81%)
9th-12th grades:	1,612 (7.54%)	\$15,000-\$25,000:	2,635 (17.08%)
High School Diploma:	6,528 (30.52%)	\$25,000-\$50,000:	4,991 (32.35%)
Some College/2-yr:	6,082 (28.44%)	\$50,000-\$75,000:	2,669 (17.30%)
B.S./B.A. or more:	5,602 (26.19%)	Greater than \$75,000:	1,897 (12.30%)

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. NCDB: 10/27/2006. FRS: 12/06/2012. ICIS: 12/07/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



You are here: EPA Home Compliance and Enforcement ECHO Search Data Search Results

Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip
	FRS	<u>110035979206</u>	WESTLIE MOTOR COMPANY	500 SOUTH BROADWAY	MINOT	ND	58701
RCRA	RCR	NDD004872578	WESTLIE MOTOR COMPANY, INC.	500 S BROADWAY	MINOT	ND	58701

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110035979206					LRT: 48.231461 , -101.296425	No		
RCRA	NDD004872578		Inactive				INo		44111 811121 811111

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	NDD004872578	0	12/05/1997	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data reco	ords returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

	Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)		
- 1							_	4

RCRA NDD004872578 No 12/09/2012 **0**

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
NDD004872578		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description	
			- No data records retur	ned.			

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action	
Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost	
- No data records returned.											

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to	Total On-site	Total Off-site	Total Releases and				
/	Emissions	Discharges	Injections	Land	Releases	Transfers	Transfers				
- No c	- No data records returned.										

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Radius of Area:	N/A	Land Area:	N/A	Households in area:	N/A
- No data records returned.					

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



Detailed Facility Report



Report



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip	
	FRS	<u>110004064173</u>	CARQUEST WESTERN AUTO	300 3RD AVE S.W.	MINOT	ND	58701	
RCRA	RCR	NDD031856503	CARQUEST WESTERN AUTO	300 3RD AVE S.W.	MINOT	ND	58701	

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110004064173					LRT: 48.233100 , -101.297100	No		
RCRA	NDD031856503		Inactive				No		

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	NDD031856503	0	Never	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data reco	rds returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)
RCRA	NDD031856503	No		12/09/2012	0

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID RCRA: NDD031856503		QTR1 Jan- Mar10	QTR2 Apr- Jun10	Jul-	QTR4 Oct- Dec10	QTR5 Jan- Mar11	QTR6 Apr- Jun11	QTR7 Jul- Sep11	Oct-	l .	QTR10 Apr- Jun12	QTR11 Jul- Sep12	QTR12 Oct- Dec12
Facility Level Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description	
		,	- No data records retur	ned.			

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action
Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost
- No data records returned.										

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to	Total On-site	Total Off-site	Total Releases and				
/	Emissions	Discharges	Injections	Land	Releases	Transfers	Transfers				
- No d	- No data records returned.										

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Open more detailed information in a new window (links leave ECHO): 1 Mi 3 Mi or 5 Mi.

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2000 US Census data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA <u>Locational Reference Table(LRT)</u> when available.

Radius of Area:	3 Miles	Land Area:	99.61%	Households in area:	15,314
Center Latitude:	48.233305	Water Area:	0.39%	Housing units in area:	16,235
Center Longitude:	-101.297150	Population Density:	1283.35/sq. mi.	Households On Public Assistance:	447
Total Persons:	36,152	Percent Minority:	7.55%	Persons Below Poverty Level:	4,486

Race Breakdown	Persons (%)	Age Breakdown:	Persons (%)
White:	33,704 (93.23%)	Child 5 years and less:	2,777 (7.68%)
African-american:	432 (1.19%)	Minors 17 years and younger:	8,388 (23.20%)
Hispanic-Origin:	634 (1.75%)	Adults 18 years and older:	27,765 (76.80%)
Asian/Pacific Islander:	166 (0.46%)	Seniors 65 years and older:	5,549 (15.35%)
American Indian:	1,097 (3.03%)		
Other/Multiracial:	236 (0.65%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown:	Households (%)
Less than 9th grade:	1,541 (7.26%)	Less than \$15,000:	3,181 (20.77%)
9th-12th grades:	1,591 (7.50%)	\$15,000-\$25,000:	2,608 (17.03%)
High School Diploma:	6,459 (30.44%)	\$25,000-\$50,000:	4,950 (32.32%)
Some College/2-yr:	6,037 (28.45%)	\$50,000-\$75,000:	2,652 (17.32%)
B.S./B.A. or more:	5,593 (26.36%)	Greater than \$75,000:	1,894 (12.37%)

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



You are here: EPA Home Compliance and Enforcement ECHO Search Data Search Results

Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip	
	FRS	<u>110004065065</u>	WILBUR-ELLIS COMPANY	605 4TH AVENUE NE	MINOT	ND	58701	
RCRA	RCR	NDD095961157	WILBUR-ELLIS COMPANY	605 4TH AVENUE NE	MINOT	ND	58701	

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110004065065					LRT: 48.239910 , -101.284408	No		
RCRA	NDD095961157		Inactive				No		

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	NDD095961157	0	Never	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data reco	rds returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)	
RCRA	NDD095961157	No		12/09/2012	0	П

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
NDD095961157		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description	
			- No data records retur	ned.			

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

	Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action
	Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost
- No data records returned.											

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	5		Total Off-site	Total Releases and			
/	Emissions	Discharges	Injections			Transfers	Transfers			
- No d	No data records returned.									

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Open more detailed information in a new window (links leave ECHO): 1 Mi 3 Mi or 5 Mi.

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2000 US Census data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA <u>Locational Reference Table(LRT)</u> when available.

Radius of Area:	3 Miles	Land Area:	99.68%	Households in area:	15,470
Center Latitude:	48.232779	Water Area:	0.32%	Housing units in area:	16,395
Center Longitude:	-101.284531	Population Density:	1296,91/sq. mi.	Households On Public Assistance:	462
Total Persons:	36,547	Percent Minority:	7.42%	Persons Below Poverty Level:	4,565

Race Breakdown	Persons (%)	Age Breakdown:	Persons (%)
White:	34,113 (93.34%)	Child 5 years and less:	2,796 (7.65%)
African-american:	423 (1.16%)	Minors 17 years and younger:	8,504 (23.27%)
Hispanic-Origin:	633 (1.73%)	Adults 18 years and older:	28,042 (76.73%)
Asian/Pacific Islander:	167 (0.46%)	Seniors 65 years and older:	5,574 (15.25%)
American Indian:	1,099 (3.01%)		
Other/Multiracial:	234 (0.64%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown:	Households (%)
Less than 9th grade:	1,590 (7.41%)	Less than \$15,000:	3,230 (20.88%)
9th-12th grades:	1,628 (7.59%)	\$15,000 - \$25,000:	2,650 (17.13%)
High School Diploma:	6,561 (30.57%)	\$25,000-\$50,000:	5,008 (32.37%)
Some College/2-yr:	6,095 (28.40%)	\$50,000 - \$75,000:	2,675 (17.29%)
B.S./B.A. or more:	5,585 (26.03%)	Greater than \$75,000:	1,890 (12.22%)

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



You are here: EPA Home Compliance and Enforcement ECHO Search Data Search Results

Detailed Facility Report



Report

Data Dictionary

For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip
	FRS	<u>110004062255</u>	COCA-COLA BOTTLING CO	411 9TH ST SE	МІМОТ	ND	58701
RCRA	RCR	ND0000006593	COCA-COLA BOTTLING CO	411 9TH ST SE	MINOT	ND	58701

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110004062255					LRT: 48.232548 , -101.279689	No		
RCRA	ND0000006593		Inactive				No		

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	ND0000006593	0	Never	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
- No data reco	rds raturnad					

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)	
RCRA	ND0000006593	No		12/09/2012	0	П

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
ND0000006593		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description					
	- No data records returned.										

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action	
Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost	
- No data records returned.											

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to	Total On-site	Total Off-site	Total Releases and					
/	Emissions	Discharges	Injections	Land	Releases	Transfers	Transfers					
- No d	- No data records returned.											

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Open more detailed information in a new window (links leave ECHO): 1 Mi 3 Mi or 5 Mi.

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2000 US Census data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA <u>Locational Reference Table(LRT)</u> when available.

Radius of Area:	3 Miles	Land Area:	99.68%	Households in area:	15,311
Center Latitude:	48.232603	Water Area:	0.32%	Housing units in area:	16,220
Center Longitude:	-101.279736	Population Density:	1283,89/sq. mi.	Households On Public Assistance:	461
Total Persons:	36,180	Percent Minority:	7.38%	Persons Below Poverty Level:	4,544

Race Breakdown	Persons (%)	Age Breakdown:	Persons (%)
White:	33,789 (93.39%)	Child 5 years and less:	2,756 (7.62%)
African-american:	410 (1.13%)	Minors 17 years and younger:	8,419 (23.27%)
Hispanic-Origin:	625 (1.73%)	Adults 18 years and older:	27,762 (76.73%)
Asian/Pacific Islander:	161 (0.44%)	Seniors 65 years and older:	5,515 (15.24%)
American Indian:	1,091 (3.02%)		
Other/Multiracial:	230 (0.64%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown:	Households (%)
Less than 9th grade:	1,589 (7.49%)	Less than \$15,000:	3,212 (20.98%)
9th-12th grades:	1,621 (7.64%)	\$15,000-\$25,000:	2,638 (17.23%)
High School Diploma:	6,493 (30.59%)	\$25,000-\$50,000:	4,951 (32.34%)
Some College/2-yr:	6,026 (28.39%)	\$50,000-\$75,000:	2,640 (17.24%)
B.S./B.A. or more:	5,500 (25.91%)	Greater than \$75,000:	1,860 (12.15%)

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	urce ID Facility Name		City	State	Zip
	FRS	<u>110004065519</u>	M-I DRILLING FLUIDS CO (MINOT)	504 9TH SE	MINOT	ND	58701
RCRA	RCR	NDD980718639	M-I DRILLING FLUIDS CO (MINOT)	504 9TH SE	MINOT	ND	58701

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110004065519					LRT: 48.231590 , -101.279650	No		
RCRA	NDD980718639		Inactive				No		

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	NDD980718639	0	Never	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statu	e Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data	records returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)	
RCRA	NDD980718639	No		12/09/2012	0	П

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
NDD980718639		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description	
		,	- No data records retur	ned.			

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action
Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost
- No data records returned.										

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to	Total On-site	Total Off-site	Total Releases and
/	Emissions	Discharges	Injections	Land	Releases	Transfers	Transfers
- No d	data records re	turned.					

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Open more detailed information in a new window (links leave ECHO): 1 Mi 3 Mi or 5 Mi.

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2000 US Census data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA <u>Locational Reference Table(LRT)</u> when available.

Radius of Area:	3 Miles	Land Area:	99.68%	Households in area:	15,295
Center Latitude:	48.231748	Water Area:	0.32%	Housing units in area:	16,200
Center Longitude:	-101.279554	Population Density:	1282.19/sq. mi.	Households On Public Assistance:	461
Total Persons:	36,132	Percent Minority:	7.39%	Persons Below Poverty Level:	4,540

Race Breakdown	Persons (%)	Age Breakdown:	Persons (%)
White:	33,739 (93.38%)	Child 5 years and less:	2,751 (7.61%)
African-american:	410 (1.13%)	Minors 17 years and younger:	8,399 (23.25%)
Hispanic-Origin:	623 (1.72%)	Adults 18 years and older:	27,733 (76.75%)
Asian/Pacific Islander:	162 (0.45%)	Seniors 65 years and older:	5,510 (15.25%)
American Indian:	1,090 (3.02%)		
Other/Multiracial:	230 (0.64%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown:	Households (%)
Less than 9th grade:	1,588 (7.49%)	Less than \$15,000:	3,211 (20.99%)
9th-12th grades:	1,620 (7.64%)	\$15,000-\$25,000:	2,638 (17.25%)
High School Diploma:	6,490 (30.61%)	\$25,000-\$50,000:	4,947 (32.34%)
Some College/2-yr:	6,016 (28.37%)	\$50,000-\$75,000:	2,635 (17.23%)
B.S./B.A. or more:	5,491 (25.89%)	Greater than \$75,000:	1,857 (12.14%)

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip	
	FRS	<u>110004067642</u>	NYBAKKEN BODY SHOP	619 3RD ST NE	MINOT	ND	58703	
RCRA	RCR	NDD986267896	NYBAKKEN BODY SHOP	619 3RD ST NE	MINOT	ND	58703	

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110004067642					LRT: 48.242224 , -101.287724	No		
RCRA	NDD986267896	CESQG	Active (H)				No		811121

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	NDD986267896	0	Never	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data reco	rds returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)
Statute	Source ID	Current SNC/nPV?	Description	Current As Of	Qu's in NC (or 12)

RCRA NDD986267896 No 12/09/2012 **0**

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

	RCRA Compliance Status												
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
NDD986267896		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	
		- No data records returned.			

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description				
	- No data records returned.									

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action
Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost
	- No data records returned.									

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to Land	Total On-site	Total Off-site	Total Releases and				
/	Emissions	Discharges	Injections		Releases	Transfers	Transfers				
- No c	No data records returned										

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Open more detailed information in a new window (links leave ECHO): 1 Mi 3 Mi or 5 Mi.

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2000 US Census data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA <u>Locational Reference Table(LRT)</u> when available.

Radius of Area:	3 Miles	Land Area:	99.61%	Households in area:	15,467
Center Latitude:	48.230690	Water Area:	0.39%	Housing units in area:	16,388
Center Longitude:	nter Longitude: -101.288481 Population Density:		1296.27/sq. mi.	Households On Public Assistance:	461
Total Persons:	36,516	Percent Minority:	7.46%	Persons Below Poverty Level:	4,550

Race Breakdown	Persons (%)	Age Breakdown:	Persons (%)
White:	34,072 (93.31%)	Child 5 years and less:	2,796 (7.66%)
African-american:	427 (1.17%)	Minors 17 years and younger:	8,481 (23.23%)
Hispanic-Origin:	633 (1.73%)	Adults 18 years and older:	28,035 (76.77%)
Asian/Pacific Islander:	171 (0.47%)	Seniors 65 years and older:	5,581 (15.28%)
American Indian:	1,098 (3.01%)		
Other/Multiracial:	235 (0.64%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown:	Households (%)
Less than 9th grade:	1,581 (7.37%)	Less than \$15,000:	3,224 (20.84%)
9th-12th grades:	1,621 (7.56%)	\$15,000 - \$25,000:	2,647 (17.11%)
High School Diploma:	6,562 (30.59%)	\$25,000 - \$50,000:	5,008 (32.38%)
Some College/2-yr:	6,087 (28.37%)	\$50,000-\$75,000:	2,675 (17.29%)
B.S./B.A. or more:	5,602 (26.11%)	Greater than \$75,000:	1,895 (12.25%)

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.



You are here: EPA Home Compliance and Enforcement ECHO Search Data Search Results

Detailed Facility Report



Report Error



For Public Release - Unrestricted Dissemination Report Generated on 12/28/2012

US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers

Data Dictionary

Statute	System	Source ID	Facility Name	Street Address	City	State	Zip	
	FRS	110004065243	BROADWAY BODY SHOP	1118 SOUTH BROADWAY	MINOT	ND	58701	
RCRA	RCR	NDD133609842	BROADWAY BODY SHOP	1118 SOUTH BROADWAY	MINOT	ND	58701	

Facility Characteristics

Data Dictionary

Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110004065243					LRT: 48.225301, -101.296011	No		
RCRA	NDD133609842		Inactive				No		

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data

Data Dictionary

Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
RCRA	NDD133609842	0	08/04/1993	0	\$00

Compliance Monitoring History (05 years)

Data Dictionary

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding	
- No data reco	rds returned.						

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Data Dictionary

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)
RCRA	NDD133609842	No		12/09/2012	0

Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of <u>alleged violations</u> is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

RCRA Compliance Status													
Statute:Source ID		QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
RCRA:		Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-	Jan-	Apr-	Jul-	Oct-
NDD133609842		Mar10	Jun10	Sep10	Dec10	Mar11	Jun11	Sep11	Dec11	Mar12	Jun12	Sep12	Dec12
Facility Level													
Status													
Type of Violation	Agency												

The first date displayed for a RCRA Violation corresponds to the violation determination date, and the next to the resolution date (if the violation has been resolved).

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date			
- No data records returned.							

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description		
- No data records returned.								

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS Data Dictionary

Primary	Case	Case	Lead	Case	Issued/Filed	Settlement	Federal	State/Local	SEP	Comp Action
Law/Section	Number	Type	Agency	Name	Date	Date	Penalty	Penalty	Cost	Cost
	- No data records returned.									

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

Data Dictionary

Year	Total Air	Surface Water	Underground	Releases to	Total On-site	Total Off-site	Total Releases and	
/	Emissions	Discharges	Injections	Land	Releases	Transfers	Transfers	
- No d	- No data records returned.							

TRI Total Releases and Transfers by Chemical and Year

- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

Data Dictionary

Open more detailed information in a new window (links leave ECHO): 1 Mi 3 Mi or 5 Mi.

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2000 US Census data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA <u>Locational Reference Table(LRT)</u> when available.

Radius of Area:	3 Miles	Land Area:	99.43%	Households in area:	15,215
Center Latitude:	48.225486	Water Area:	0.57%	Housing units in area:	16,104
Center Longitude:	-101.295451	Population Density:	1276.73/sq. mi.	Households On Public Assistance:	453
Total Persons:	35,889	Percent Minority:	7.50%	Persons Below Poverty Level:	4,459

Race Breakdown	Persons (%)	Age Breakdown:	Persons (%)
White:	33,476 (93.28%)	Child 5 years and less:	2,738 (7.63%)
African-american:	421 (1.17%)	Minors 17 years and younger:	8,296 (23.12%)
Hispanic-Origin:	628 (1.75%)	Adults 18 years and older:	27,593 (76.88%)
Asian/Pacific Islander:	167 (0.47%)	Seniors 65 years and older:	5,525 (15.39%)
American Indian:	1,082 (3.01%)		
Other/Multiracial:	233 (0.65%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown:	Households (%)
Less than 9th grade:	1,549 (7.34%)	Less than \$15,000:	3,172 (20.85%)
9th-12th grades:	1,583 (7.50%)	\$15,000-\$25,000:	2,608 (17.14%)
High School Diploma:	6,448 (30.56%)	\$25,000-\$50,000:	4,922 (32.35%)
Some College/2-yr:	5,964 (28.27%)	\$50,000-\$75,000:	2,628 (17.27%)
B.S./B.A. or more:	5,554 (26.32%)	Greater than \$75,000:	1,872 (12.30%)

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



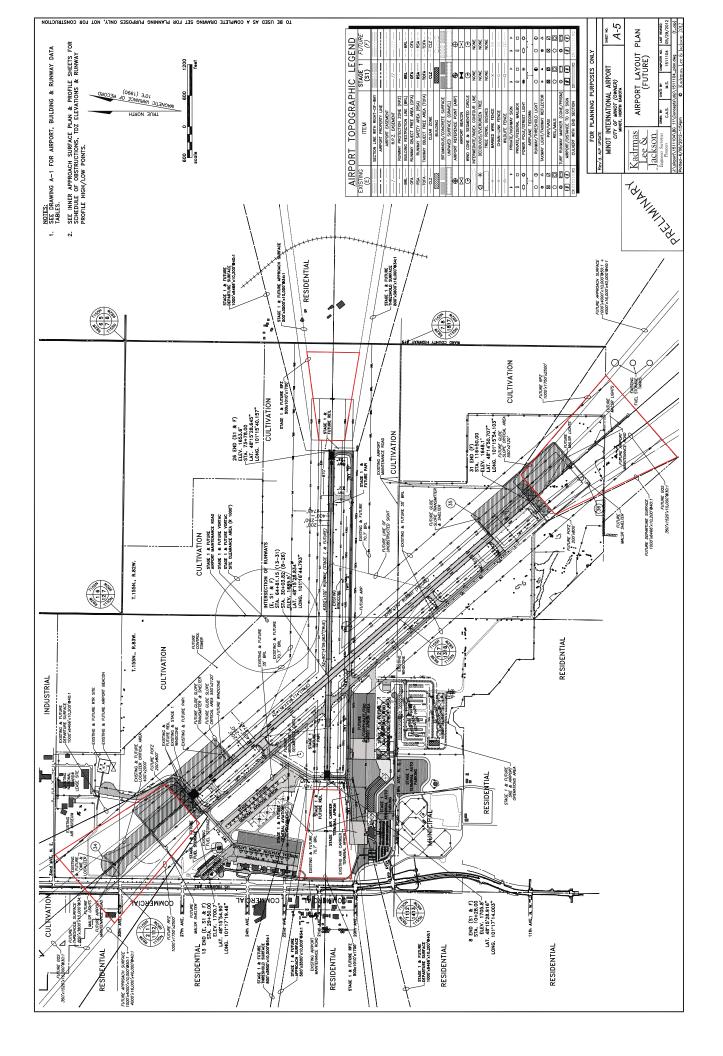
This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: RCRAInfo: 12/09/2012. FRS: 12/06/2012.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.

Appendix J Airport Clear Zones & Accident Potential Zones













Appendix K Soil Suitability

Soil Suitability City of Minot, Downtown Redevelopment Corrosion of Steel



Corrosion of Steel Summary by Map Unit — Ward County, North Dakota (ND101) Map unit symbol Map unit name Rating Acres in AOI Percent of AOI F639F Orthents-Aquents-Urban Land, highway complex, 0 to 35 percent slopes Moderate 1.3 1.5% F645B Urban land-Udifluvents loamy complex, 0 to 6 percent slopes 25.0 30.3% F646B Urban land, 0 to 6 percent slopes 56.2 68.1% **Totals for Area of Interest** 82.4 100.0%

Corrosion of Concrete



Corrosion of Concrete

Summary by Map Unit — Ward County, North Dakota (ND101)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
F639F	Orthents-Aquents-Urban Land, highway complex, 0 to 35 percent slopes	Moderate	1.3	1.5%
F645B	Urban land-Udifluvents loamy complex, 0 to 6 percent slopes		25.0	30.3%
F646B	Urban land, 0 to 6 percent slopes		56.2	68.1%
Totals for Area of Interest			82.4	100.0%

Appendix L Health Care



ENVIRONMENTAL HEALTH SECTION Gold Seal Center, 918 E. Divide Ave. Bismarck, ND 58501-1947 701.328.5200 (fax) www.ndhealth.gov

September 28, 2012

Ms. Rebecca Jablon Environmental Planner CDM Smith, Inc. 3201 Jermantown Road, Suite 400 Fairfax, VA 22030

City of Minot CDBG-DR Program:

Jahrlings teachers out the first

Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Ward County, North Dakota

Dear Ms. Jablon:

This department has reviewed the information concerning the above-referenced project submitted under date of September 7, 2012, with respect to possible environmental impacts.

This department believed that environmental impacts from the proposed construction will be minor and can be controlled by proper construction methods. With respect to construction, we have the following comments: 57 delica i de commenta de la casa de la fina de brata per ser para al las

- All necessary measures must be taken to minimize fugitive dust emissions created during construction activities. Any complaints that may arise are to be dealt with in an efficient and effective manner.
- 2. Care is to be taken during construction activity near any water of the state to minimize adverse effects on a water body. This includes minimal disturbance of stream beds and banks to prevent excess siltation, and the replacement and revegetation of any disturbed area as soon as possible after work has been completed. Caution must also be taken to prevent spills of oil and grease that may reach the receiving water from equipment maintenance, and/or the handling of fuels on the site. Guidelines for minimizing degradation to waterways during construction are attached.
- Projects disturbing one or more acres are required to have a permit to discharge storm water runoff until the site is stabilized by the reestablishment of vegetation or other permanent cover. Further information on the storm water permit may be obtained from the Department's website or by calling the Division of Water Quality (701-328-5210). In addition, the City of Minot is required to consider and address post-construction storm water quality as part of its NDPDES Small Municipal Separate Storm Sewer System (MS4) General Permit obligations. Check with the local Ill officials to be stire todal storm water management considerations are addressed with the management considerations are addressed.

or for the sol than minutes; 2.0%, without per the policy and water removed suggesting

- 1 -911,117

es a 100 magnines may a succession

4. Noise from construction activities may have adverse effects on persons who live near the construction area. Noise levels can be minimized by ensuring that construction equipment is equipped with a recommended muffler in good working order. Noise effects can also be minimized by ensuring that construction activities are not conducted during early morning or late evening hours.

The department owns no land in or adjacent to the proposed improvements, nor does it have any projects scheduled in the area. In addition, we believe the proposed activities are consistent with the State Implementation Plan for the Control of Air Pollution for the State of North Dakota.

If you have any questions regarding our comments, please feel free to contact this office.

Sincerely,

L. David Glatt, P.E., Chief Environmental Health Section

LDG:cc Attach.



ENVIRONMENTAL HEALTH SECTION
Gold Seal Center, 918 E. Divide Ave.
Bismarck, ND 58501-1947
701.328.5200 (fax)
www.ndhealth.gov

Construction and Environmental Disturbance Requirements

These represent the minimum requirements of the North Dakota Department of Health. They ensure that minimal environmental degradation occurs as a result of construction or related work which has the potential to affect the waters of the State of North Dakota. All projects will be designed and implemented to restrict the losses or disturbances of soil, vegetative cover, and pollutants (chemical or biological) from a site.

Soils

Prevent the erosion of exposed soil surfaces and trapping sediments being transported. Examples include, but are not restricted to, sediment dams or berms, diversion dikes, hay bales as erosion checks, riprap, mesh or burlap blankets to hold soil during construction, and immediately establishing vegetative cover on disturbed areas after construction is completed. Fragile and sensitive areas such as wetlands, riparian zones, delicate flora, or land resources will be protected against compaction, vegetation loss, and unnecessary damage.

Surface Waters

All construction which directly or indirectly impacts aquatic systems will be managed to minimize impacts. All attempts will be made to prevent the contamination of water at construction sites from fuel spillage, lubricants, and chemicals, by following safe storage and handling procedures. Stream bank and stream bed disturbances will be controlled to minimize and/or prevent silt movement, nutrient upsurges, plant dislocation, and any physical, chemical, or biological disruption. The use of pesticides or herbicides in or near these systems is forbidden without approval from this Department.

Fill Material

Any fill material placed below the high water mark must be free of top soils, decomposable materials, and persistent synthetic organic compounds (in toxic concentrations). This includes, but is not limited to, asphalt, tires, treated lumber, and construction debris. The Department may require testing of fill materials. All temporary fills must be removed. Debris and solid wastes will be removed from the site and the impacted areas restored as nearly as possible to the original condition.



3201 Jermantown Road, Suite 400

Fairfax, Virginia 22030

tel: 703-691-6500 fax: 703-267-6083

CERTIFIED

September 7, 2012

L. David Glatt, P.E., Chief Environmental Health Section ND Department of Health 918 East Divide Ave. Bismarck, ND 58501-1947

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Glatt:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Mr. L. David Glatt, P.E. September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the North Dakota Department of Health concerning the potential air quality, water quality, and waste impacts from the proposed project. The enclosed figures identify the proposed project location.



Mr. L. David Glatt, P.E. September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

Rebecco Jaloh

CDM Smith

Enclosures

Appendix M Open Space and Recreation



3201 Jermantown Road, Suite 400 Fairfax, Virginia 22030

tel: 703-691-6500

fax: 703-267-6083

CERTIFIED

September 7, 2012

Mark Zimmerman, Director ND Parks & Recreation Department 1600 E. Century Ave., Suite 3 Bismarck, ND 58503-0649

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Zimmerman:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Mr. Mark Zimmerman September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the North Dakota Parks and Recreation Department concerning the potential impact to open space from the proposed project. The enclosed figures identify the proposed project location.



Mr. Mark Zimmerman September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

CDM Smith

Enclosures

Appendix N Transportation

October 9, 2012

Rebecca Jablon, AICP, LEED AP Environmental Planner CDM Smith 3201 Jermantown Road, Suite 400 Fairfax, VA 22030

UPGRADES, DOWNTOWN PARKING FACILITIES, AND INFRASTRUCTURE REPAIRS, WARD COUNTY, MINOT NORTH DAKOTA

We have reviewed your September 7, 2012, letter.

This project should have no adverse effect on the North Dakota Department of Transportation highways; however, there will be temporary impacts to the traffic flow on city streets including US 2 and US 83 which are classified as secondary regional system roadways during construction.

Additionally, if because of this project any work needs to be done on highway right-of-way, appropriate permits and risk management documents will need to be obtained from the Department of Transportation District Engineer, Jim Redding, Minot at 701-837-7625.

ROBERT A. FODE, P.E., DIRECTOR - OFFICE OF PROJECT DEVELOPMENT

57\raf\js

c: Jim Redding, Minot District Engineer



3201 Jermantown Road, Suite 400

Fairfax, Virginia 22030

tel: 703-691-6500 fax: 703-267-6083

CERTIFIED

September 7, 2012

Robert A. Fode, P.E., Director Office of Project Development ND Department of Transportation 608 E. Boulevard Ave. Bismarck, ND 58505-0700

RE: City of Minot CDBG-DR Program: Downtown Parking Facilities and Infrastructure Repairs and Upgrades

Dear Mr. Fode:

The City of Minot (City), North Dakota was included in the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Disaster Recovery (CDBG-DR) program for 2011 Disasters. In June 2011, the City of Minot suffered substantial damage due to flood waters from the Mouse River (Souris River) that damaged the existing underground infrastructure. In accordance with the use of CDBG-DR funds, the City is the responsible entity for completing federally required environmental review per 24 CFR Part 58. The City retained CDM Smith to assist with the environmental review of the proposed activities which include new parking facilities associated with the "Imagine Minot" downtown revitalization initiative as well as repairs, upgrades and extensions to the existing City infrastructure within the downtown area to support future development.

The project area is approximately 82 acres, and is generally bounded by North/South Broadway Street to the west, Frontage Road/1st Avenue NE to the north, 3rd Street NE/SE to the east and Burdick Expressway E/W to the south. The proposed area of storm sewer enhancements includes an additional 2.5 acres to the east along 3rd Avenue SE. The proposed area of water main enhancements includes an additional acre to the south along 1st Street NW. The proposed area of roadway enhancements includes an additional 1.5 acres to the east along 3rd Avenue SE for paving over a trench.



Mr. Robert Fode, P.E. September 7, 2012 Page 2

The proposed project consists of two three-level parking structures to be located at the half block on 1st Street SW between 2nd Avenue SW and 3rd Avenue SW and at the half block on 1st Street SW between 1st Avenue SW and Central Avenue W. The structures would be approximately 150 feet by 300 feet with two elevators, public lobby access and three vehicle access points. Each structure would include approximately 282 parking spaces. The proposed structures would be built to accommodate a future addition of four levels of housing. Both locations are currently used as surface parking lots.

The proposed project also consists of the following infrastructure improvements:

- Replacing approximately 19,000 linear feet of existing sanitary sewer piping including replacing 35 maintenance holes within the study area;
- Replacing and upsizing approximately 12,500 linear feet of existing storm sewers within the
 project area and 58 maintenance holes, as all segments of pipe are smaller than current
 design standards set by the City of Minot. The existing diameters range from 10 inches to
 54 inches and will be upgraded to range from 15 inches to 66 inches;
- Replacing and upsizing approximately 14,000 linear feet of existing water mains ranging from 6 inches to 12 inches within the project area to new pipes ranging from 8 inches to 16 inches in diameter including 84 valves and 34 hydrants;
- Constructing an additional segment of 8-inch water main along 1st Street from Burdick Expressway south to 5th Avenue SE;
- Replacing existing street lights and conduits with 256 energy-efficient street lights that
 meeting current codes and standards in according to the National Electrical Code, the
 National Electrical Safety Code and the North Dakota State Electrical Code;
- Repaving and replacing all of the existing roads (approximately 87,500 square yards), curb
 and gutters (approximately 27,500 linear feet), and sidewalks (nearly 25,000 square yards)
 within the study area. The only segment of the study area not to need replacement is 3rd
 Street SE between 2nd Avenue SE and 3rd Avenue SE; and
- Upgrading six signalized intersections and two signalized crosswalks.

CDM Smith seeks comments from the North Dakota Department of Transportation concerning the potential transportation impacts from the proposed project. The enclosed figures identify the proposed project location.



Mr. Robert Fode, P.E. September 7, 2012 Page 3

We would appreciate hearing from you; if no response is received within 30 calendar days, the City of Minot will make the determination that the proposed activities will not affect this area of regulatory compliance. If there is anything else I can provide to your office, please do not hesitate to contact me at 703-691-6485 or jablonrs@cdmsmith.com.

Sincerely,

Rebecca Jablon, AICP, LEED AP

Environmental Planner

Ribuco John

CDM Smith

Enclosures