

US 89 Etna North

Environmental Assessment



Hazardous Materials Technical Memorandum

Hazardous materials could be encountered during the construction of a transportation project. Therefore, it is important to identify properties that may contain contamination prior to right-of-way acquisition and construction. Hazardous materials are defined as any waste product that is considered flammable, corrosive, reactive, or toxic. Hazardous materials can be found in various forms and can originate from a variety of sources. Examples of potential sites that may contain hazardous waste include landfills, service stations, industrial areas, railroad corridors, and mine sites. When planning and developing a transportation project, it is important to be aware of known hazardous waste sites so they can be avoided or their impacts minimized.

Existing Conditions

An assessment was performed to screen the Project Area for sites with known or suspected *recognized environmental conditions* (RECs). RECs are the presence or likely presence of hazardous substances, hazardous materials, or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any such substances into structures on the property or into the ground, groundwater, or surface water of the property [American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*].

The assessment included a review of existing land use, environmental regulatory records, historical aerial photos, topographic maps, and an on-site inspection.

The majority of the Project Area consists of agricultural uses and residential development with minor commercial development. The majority of the commercial development is located within the Towns of Etna and

Alpine near both termini of the project. In general, parcels with a history of commercial uses have a higher likelihood of having RECs than residential property. Historical land use is taken into consideration when assigning risk to individual parcels. Historic aerial maps of the Project Area dated 1971, 1976, 1980, 1987, 1989, 1992, 1999, and 2006 were reviewed for this project. The Project Area has consisted of similar land uses observed today.

According to the Wyoming Oil and Gas Conservation Commission, there are no oil and gas wells located within the Project Area.

Environmental Data Resources, Inc. (EDR) maintains federal, state, and local regulatory databases for registered sites. A report was generated to locate potential RECs within 0.5 mile of the Project Area, centered along US 89 at the intersections with Trail Drive Road, Jack Knife Road, and Peterson Lane. According to the EDR report, there are no listed sites in federal, state, or local databases within the appropriate search distances from the target locations listed above. However, there are four facilities listed as orphan sites. The term "orphan sites" means that EDR could not pinpoint the exact location of the sites with the listed address. A review of the listed addresses indicated that two of these sites appear to be located within 0.5 mile from the proposed project improvements.

In addition, the Wyoming Department of Environmental Quality (WYDEQ) holds records for registered storage tanks. The WYDEQ database was searched to determine if any other sites pose a potential risk to the project. A review of the database indicated that five sites are located within 0.5 mile from the proposed project improvements.

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Hazardous Materials Impacts

No Build Alternative: After evaluating the likelihood that contamination from each of the EDR orphan sites and/or WDEQ-listed sites would impact any potential spot safety improvements, there are no sites of concern.

Build Alternatives: Table 1 summarizes all of the sites in or near the Project Area that were listed in the EDR report as unmapped orphaned sites. Table 2 shows the sites that are not listed in the EDR report, but are listed in the WYDEQ database. These sites were rated as a no risk or low, moderate, or high risk based on the distance of documented RECs from the proposed project alignment, type of contamination, and likelihood of the condition being encountered during construction. Figure 1 shows the sites with potential RECs.

After evaluating the likelihood that contamination from each of the EDR orphan sites and/or WYDEQ listed sites would impact the construction of the Build Alternatives, there are no sites of concern.

Hazardous Materials Mitigation

Although no sites of concern were identified that could impact construction of the Build Alternatives, contamination could still be encountered during construction activities. Therefore, construction personnel will be trained to recognize signs of possible contamination in soil, such as odors and staining.

Owners of subsurface utilities should be contacted in areas where excavation is to be conducted in order to assess whether any of the utilities are contained in Transite asbestos pipe. If subsurface utilities are determined to be housed in Transite asbestos pipe and the utilities need to be relocated for the project, special handling, and possibly asbestos abatement, would be required.

Also, Wyoming regulations require a formal asbestos inspection and abatement, if necessary, for any buildings or structures that would be demolished. The likely presence of lead-based paint should be factored into any plans for demolition and subsequent disposal.

Figure 1 Potential Resources of Environmental Concern



Table 1 Summary of EDR Orphan Sites

Site Name	Site Address	Database	Status	Risk
EDR Orphan Sites				
Etna Trading Company	Highway 89	LTANKS	Five permanently closed USTs were used to store gasoline approximately 300 feet south from the proposed improvements. This site is listed in the WYDEQ database as a resolved site. Not likely to impact project.	None
B & B Gravel	2 miles north of Etna on US 89	RCRA-non-generator; SWF/LF; SHWF	This site is listed in the RCRA database as a non-generator of waste. It is also listed in the solid and hazardous waste facility database. It is located approximately 0.5 mile east from the proposed improvements. Not likely to impact project.	None

Source: EDR, 2009.

LTANKS - Database of leaking underground storage tanks.

RCRA - Resource Conservation and Recovery Act.

SHWF - Solid and Hazardous Waste Facility.

SWF - Solid Waste Facility.

LF - Landfill.

Table 2 Summary of Wyoming DEQ Listed Sites

Site Name	Site Address	Database	Status	Risk
Wyoming DEQ Listed Sites*				
Alpine Post Office	102 Highway 89	UST	Five permanently closed USTs were used to store gasoline and diesel approximately 200 feet east of the proposed improvements. It is assumed that no violations have been reported for this site since it is not listed in the remediation files. Not likely to impact project.	None
Alpine Market/Palispport	100 Greys River Road	UST	Three in-service USTs which are used to store gasoline and diesel, and one permanently closed UST was used to store gasoline approximately 600 feet east from the proposed improvements. It is assumed that no violations have been reported for this site since it is not listed in the remediation files. Not likely to impact project.	None
Alpine Standard Texaco (former Hobbies)	120 Highway 89	LTANKS	Five permanently closed USTs were used to store gasoline and diesel, and three in-service USTs are used to store gasoline and diesel approximately 500 feet northeast of the Project Area and north of US 89. Groundwater flows away from the Project Area. This site is listed in the WYDEQ database as an unresolved site.	Low
Etna Trading Company	107857 N Highway 89	LTANKS	Five permanently closed USTs were used to store gasoline approximately 300 feet south of the proposed improvements. This site is listed in the WYDEQ database as a resolved site. Not likely to impact project.	None
Citifinancial	108086 N Highway 89	LTANKS	Four permanently closed USTs were used to store gasoline and unknown substances. The exact location of this site is unknown. This site is listed in the WYDEQ database as a resolved site. Not likely to impact project.	None

Source: Wyoming DEQ, 2012.

*These sites were not listed in the EDR database search report, but are listed in the Wyoming DEQ database.

UST - Underground Storage Tank. LTANKS - Database of leaking underground storage tanks.